

**UNIVERZITA KOMENSKÉHO  
FAKULTA MATEMATIKY, FYZIKY A INFORMATIKY**

**Zoznam publikačnej činnosti**

**Doc. RNDr. Miroslav Grajcar, DrSc.**

**ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách**

- ABC01 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Seidel, Paul - Beňačka, Štefan:  
Investigation of HTS surface properties by tunneling spectroscopy  
In: Tunnelling Studies of High Temperature Superconductors. - Commack : Nova Science Publishers, 1996. -  
S. 75-123. - ISBN 1-56072-394-7  
*Ohlasy (4):*  
[o1] 1998 Shlapak, J. V. - Shaternik, V. J. - Kasatkinad, A. L. - Rudenko, E. M.: Quasiparticle current in  
transparent superconducting tunnel junctions. In: Metallofizika i Noveishie Tekhnologii, Vol. 20, No. 3, 1998,  
s. 3-9 - SCI ; SCOPUS  
[o1] 2000 Mourachkine, A.: Andreev reflections and tunneling spectroscopy on underdoped  
Nd<sub>1.85</sub>Ce<sub>0.15</sub>CuO<sub>4-δ</sub>. In: Europhysics Letters, Vol. 50, No. 5, 2000, s. 663-667 - SCI ; SCOPUS  
[o1] 2001 Mourachkine, A.: Quasi-one-dimensional topological-excitation liquid in Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+x</sub> from  
tunnelling spectroscopy. In: Superconductor Science & Technology, Vol. 14, No. 6, 2001, s. 329-345 - SCI ;  
SCOPUS  
[o1] 2001 Mourachkine, A.: c-axis phase coherence and spin fluctuations in cuprates. In: Europhysics Letters,  
Vol. 55, No. 1, 2001, s. 86-92 - SCI ; SCOPUS
- ABC02 Hlubina, Richard [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni: What does the  
Josephson effect tell us about the superconducting state of the cuprates?  
Lit. 53 zázn., 16 obr.  
In: Cuprates and Some Unconventional Systems. - New York : Nova Science Publishers, 2003. - S. 1-33. -  
ISBN 1-59033-697-6  
*Ohlasy (3):*  
[o1] 2004 Kolesnichenko, Y. A. - Omelyanchouk, A. N. - Zagoskin, A. M.: Spontaneous currents in Josephson  
junctions between unconventional superconductors and d-wave qubits-(Review). In: Low Temperature  
Physics, Vol. 30, No. 7-8, 2004, s.535-553 - SCI  
[o1] 2005 Greenberg, Y. S. - Novikov, I. L. - Schultze, V. - Meyer, H. G.: 2Greenberg YS, Novikov IL,  
Schultze V, Meyer HG. In: European Physical Journal B, Vol. 44, No. 1, 2005, s. 57-62 - SCI  
[o1] 2005 Testa, G. - Sarnelli, E. - Monaco, A. - Esposito, E. - Ejrnaes, M. - Kang, D. J. - Mennema, S. H. -  
Tarte, E. J. - Blamire, M. G.: Evidence of midgap-state-mediated transport in 45 degrees symmetric [001] tilt  
YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> bicrystalgrain-boundary junctions. In: Physical Review B, Vol. 71, No. 13, 2005, Art. No.  
134520 - SCI

**ACC Kapitoly vo vysokoškolských učebniciach vydané v zahraničných vydavateľstvách**

- ACC01 Grajcar, Miroslav [UKOMFKEF] (100%) : Makroskopické kvantové javy v supravodivých štruktúrach  
Lit. 36 zázn., 17 obr.  
In: Fyzika nízkých teplot : II. část. - Praha : Matfyzpress, 2011. - S. 478-525. - ISBN 978-80-7378-168-2

**ADC Vedecké práce v zahraničných karentovaných časopisoch**

- ADC01 Plecenik, Andrej [UKOMFKEF] - Beňačka, Štefan - Mikušík, Peter - Darula, Marián - Chromik, Štefan -  
Grajcar, Miroslav [UKOMFKEF]: The energy gap depression in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>/metal  
In: Solid State Communications. - Vol. 78, No. 9 (1991), s. 809-813  
*Indikátor časopisu:*  
IF (JCR) 1991=1,764

*Ohlasy (11):*

- [o3] 1992 Hasegawa, T. - Ikuta, H. - Kitazawa, K.: Physical Properties of HTS 3. Singapore : World Scientific Publishing, 1992, S. 525
- [o4] 1992 Takács, S.: Macroscopic Quantum Phenomena. Bratislava : EIÚ SAV, 1992, S. 105
- [o1] 1993 Balzarotti, A.: Barrier parameters and superconducting gap structure of the etched surface of Y-Ba-Cu-O by scanning tunneling spectroscopy. In: Nuovo Cimento della Societa Italiana di Fisica D, Vol. 15, No. 2-3, 1993, s. 459-466 -SCI
- [o1] 1993 Lipson, A. G.- Sakov, D. M. - Saunin, E. I. - Gromov V. V.: Electrophysical processes involving electron-hole exchange on the surface of 1-2-3 superconductors in the 78-300-k range. In: Fizika tverdogo tela, Vol. 35, No. 9, 1993, s.2555-2567 - SCI
- [o1] 1995 Khlus, V. A. - Dyomin, A. V.: Resonant-tunneling in normal metal-superconductor junctions - low-voltage conductance features and excess current. In: Journal of Superconductivity, Vol. 8, No. 1, 1995, s. 71-78 - SCI
- [o1] 1995 Mukhopadhyay, S. M. - Wei, C. - Chen, T. C. S.: Interactions at the superconductor-metal interface. In: Applied Superconductivity, Vol. 3, No. 1-3, 1995, s. 7-13 - SCI
- [o1] 1998 Huhtinen, H. - Laiho, R. - Paturi, P.: Superconductivity in low-dimensional structures. In: Physics of Low-Dimensional Structures, Vol. 12, 1998, s. 93-109 - SCI ; SCOPUS
- [o1] 2001 Liu, F. S. - Peng, K. D. - Chen, W. F.: A unified explanation for superconductivity and pseudogap in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta. In: International Journal of Modern Physics B, Vol. 15, No. 1, 2001, s. 25-35 - SCOPUS
- [o1] 2001 Shaternik, V. Y. - Ivanitskii, V. A. - Rudenko, E. M.: Inelastic effects in tunnelling junctions based on the high- T-c superconductors. In: Metallofizika i novejšije tehnologii, Vol. 23, No. 6, 2001, s. 755-766 - SCI
- [o1] 2003 Hentges, P. J. - Westwood, G. - Aubin, H. - Klemperer, W. G. - Greene, L. H.: Solution-growth of ultra-thin, insulating layers of zirconia for passivation and tunnel junction fabrication on YBCO thin films. In: IEEE Transactions on Applied Superconductivity, Vol. 13, No. 2 I, 2003, s. 801-804 - SCOPUS
- [o1] 2008 Rauh, H. - Genenko, Y. A.: The effect of a superconducting surface layer on the optical properties of a dielectric photonic composite. In: Journal of Physics Condensed Matter, Vol. 20, No. 14, 2008, Art. No. 145203 - SCI ; SCOPUS

ADC02 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Darula, Marián - Beňačka, Štefan:  
Surface degradation of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-DELTA. observed by means of contact resistance measurement  
Lit. 16 zázn.

In: Solid State Communications. - Vol. 81, No. 2 (1992), s. 191-194

*Indikátor časopisu:*

IF (JCR) 1992=1,369

*Ohlasy (1):*

- [o1] 2004 Greene, L. H. - Hentges, P. J. - Klemperer, W. G. - Wen, J. G. - Westwood, G.: Solution deposition of ultrathin zirconia films on YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta by molecular layering of tetra-n-propyl zirconate. In: Journal of Materials Chemistry, Vol. 14, No. 2, 2004, s. 3158-3166 - SCI ; SCOPUS

ADC03 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Beňačka, Štefan - Revenko, Jurij - Svistunov, Vladimír M.: Time evolution of point contact resistances of high-Tc superconductors  
In: Physica C - Superconductivity and its Applications. - Vol. 218, No. 1-2 (1993), s. 82-86

*Indikátor časopisu:*

IF (JCR) 1993=2,302

*Ohlasy (7):*

- [o1] 1995 Nevolin, V. S. - Skryshevsky, V. A. - Strikha, V. I. - Kus, P. - Karlovsky, K.: I-V curves of gdbcuo/N-Si contact-revealing of the structural phase-transition in the gdbcuo film at 210-220 K. In: Czechoslovak Journal of Physics, Vol. 45, No. 10, 1995, s. 871-877 - SCI
- [o1] 1995 Pashmakov, B. - Zhang, K. - Jäger, H. M. - Tiwari, P. - Wu, X. D.: Room-temperature oxygen diffusion in a-axis normal YBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> thin-films. In: Physica C, Vol. 249, No. 3-4, 1995, s. 289-292 - SCI ; SCOPUS
- [o1] 1995 Summhammer, J. - Kundzisz, K. - Hosseinali, G. S. - Schalk, R. M. - Weber, H. W. - Proyer, S. - Stangl, E.: The morphology of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta thin-films investigated by stm. In: Physica C, Vol. 242, No. 1-2, 1995, s. 127-134 - SCI ; SCOPUS

- [o1] 1996 Chandrasekhar, N. - Valls, O. T. - Goldman, A. M.: Mechanism of the electric-field effect in the high-T-c cuprates - Comment. In: Physical Review B, Vol. 54, No. 14, 1996, s. 10218-10220 - SCI ; SCOPUS
- [o1] 2001 Conder, K.: Oxygen diffusion in the superconductors of the YBaCuO family: isotope exchange measurements and models. In: Material Science & Engineering and R-Reports, Vol. 32, No. 2-3, 2001, s. 41-102 - SCI ; SCOPUS
- [o1] 2006 Truccato, M. - Cagliero, S. - Agostino, A. - Panetta, M. - Rinaudo, G.: Electrical study of an unusual phase transformation in a Bi<sub>2</sub>Sr<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>10+x</sub> whisker at room temperature. In: Superconductor Science & Technology, Vol. 19, No. 10, 2006, s. 1003-1009 - SCI ; SCOPUS
- [o1] 2009 Wei, J. W.: Tunneling conductance in quantum wire/insulator/dx<sup>2</sup>-y<sup>2</sup> + id xy mixed wave superconductor junctions. In: Chinese Physics B, Vol. 18, No. 10, 2009, s. 4479-4485 - SCI ; SCOPUS

ADC04 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Beňačka, Štefan - Seidel, Paul - Pfuch, Andreas: Finite-quasiparticle-lifetime effects in the differential conductance of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>y</sub>/Au junctions

In: Physical Review B - Condensed Matter. - Vol. 49, No. 14 (1994), s. 10016-10019

*Indikátor časopisu:*

IF (JCR) 1994=3,187

*Ohlasy (128):*

- [o1] 1996 Cucolo, A. M.: Linear normal conductance in copper oxide tunnel junctions. In: Physical Review B, Vol. 54, No. 14, 1996, s. R9686-R9688 - SCI ; SCOPUS
- [o1] 1996 Dong, Z. C. - Xing, D. Y. - Wang, Z. D. - Sheng, L.: Interface scattering effect on the differential conductance of normal-metal superconductor junctions. In: Zeitschrift für Physik B, Vol. 100, No. 3, 1996, s. 329-333 - SCI ; SCOPUS
- [o1] 1996 Gloos, K. - Martin, F.: Andreev reflexion at nanocontacts of superconducting AuIn<sub>2</sub> with copper. In: Zeitschrift für Physik B, Vol. 99, No. 3, 1996, s. 321-325 - SCI ; SCOPUS
- [o1] 1996 Gunsenheimer, U. - Hahn, A. - Krause, A. - Kuplevakhsky, S. V.: Influence of magnetic field and Pincus states in normal-metal-superconductor tunnel junctions. In: Physical Review B, Vol. 54, No. 9, 1996, s. 6545-6556 - SCI ; SCOPUS
- [o1] 1996 Naidyuk, Y. G. - Häussler, R. - von Löhneysen, H.: Magnetic field dependence of the Andreev reflection structure in the conductivity of S-N point contacts. In: Physica B, Vol. 218, No. 1-4, 1996, s. 122-125 - SCI ; SCOPUS
- [o1] 1996 Naidyuk, Y. G. - von Löhneysen, H. - Janson, I. K.: Study of the superconducting order parameter in Zn by point contact spectroscopy. In: Czechoslovak Journal of Physics, Vol. 46, Suppl. 2, 1996, s. 711-712 - SCI ; SCOPUS
- [o1] 1996 Rybaltchenko, L. F. - Yanson, I. K. - Jansen, A. G. M. - Wyder, P. - Mandal, P. - Mandal, J. B.: Point-contact study of (Hg<sub>0.7</sub>Cr<sub>0.3</sub>)Sr<sub>2</sub>CuO<sub>4</sub>. In: Physica B, Vol. 218, 1996, No. 1-4, s. 220-223 - SCI ; SCOPUS
- [o1] 1996 Smith, C. W. - Reinertson, R. C. - Slobodzian, E. V. - Dolan, P. J.: Inelastic scattering in normal metal superconductor point contacts. In: Czechoslovak Journal of Physics, Vol. 46, Suppl. 3, 1996, s. 1327-1328 - SCI
- [o1] 1996 de Wilde, Y. - Klapwijk, T. M. - Jansen, A. G. M. - Heil, J. - Wyder, P.: Quasi-particle lifetime broadening in normal-superconductor junctions with UPt<sub>3</sub>. In: Physica B, Vol. 218, No. 1-4, 1996, s. 165-168 - SCI ; SCOPUS
- [o1] 1995 Aminov, B. A. - Ascherman, B. - Hein, M. A.: Point-contact characteristics of high-angle YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-delta</sub> step-edge junctions. In: Physical Review B, Vol. 52, No. 18, 1995, s. 13631-13635 - SCI
- [o1] 1995 Zimmermann, U. - Abens, S. - Dikin, D. - Keck, K. - Dmitriev, V. M.: Multiple andreev-reflection in asymmetric superconducting weak-links. In: Zeitschrift für Physik B, Vol. 97, No. 1, 1995, s. 59-66 - SCI
- [o1] 1996 Zimmermann, U. - Abens, S. - Dikin, D. - Keck, K. - Wolf, T.: Multiple Andreev-reflection in YBCO break-junctions. In: Zeitschrift für Physik B, Vol. 101, No. 4, 1996, s. 547-553 - SCI ; SCOPUS
- [o1] 1997 Kupka, M.: Current-voltage characteristic and differential conductance of a point contact and planar tunnel contact between an ordinary metal and superconductor in realistic three-dimensional geometry: comparison with one-dimensional case. In: Physica C, Vol. 281, No. 1, 1997, s. 91-106 - SCI ; SCOPUS
- [o1] 1997 Naidyuk, Y. G. - Gloos, K. - Menovsky, A. A.: Break-junction experiments on URu<sub>2</sub>Si<sub>2</sub> single crystals: From bulk transport to vacuum tunnelling. In: Journal of Physics C, Vol. 9, No. 29, 1997, s. 6279-6291 - SCI ; SCOPUS

- [o1] 1997 Szabo, P. - Samuely, P. - Jansen, A. G. M. - Wyder, P. - Marcus, J. - Klein, T. - Escribe Filippini, C.: Andreev reflection on the Ag-BaPb<sub>1-x</sub>Bi<sub>x</sub>O<sub>3</sub> microconstriction: Temperature and magnetic field dependence. In: *Journal of Low Temperature Physics*, Vol. 106, No. 3-4, 1997, s. 291-296 - SCI
- [o1] 1997 Yanson, I. K. - Fisun, V. V. - Jansen, A. G. M. - Wyder, P. - Canfield, P. C. - Cho, B. K. - Tomy, C. V. - Paul, D. M.: Point-contact-spectroscopy evidence of quasi-particle interactions in RNi<sub>2</sub>B<sub>2</sub>C (R=Ho, Y). In: *Low Temperature Physics*, Vol. 23, No. 9, 1997, s. 712-723 - SCI ; SCOPUS
- [o1] 1996 Reinertson, R. C. - Smith, C. W. - Dolan, P. J.: Anomalous temperature dependence of the Andreev peak for Ag/Nd-1.85 Ce<sub>0.15</sub>CuO<sub>4</sub>-delta point contacts. In: *Physica B*, Vol. 218, No. 1-4, 1996, p. 202-204 - SCI ; SCOPUS
- [o1] 1996 Samuely, P. - Szabo, P. - Jansen, A. G. M. - Wyder, P. - Marcus, J. - Baril, L. - Escribe Filippini, C.: Upper critical magnetic field in the superconducting bismuthates studied by the point-contact spectroscopy. In: *Czechoslovak Journal of Physics*, Vol. 46, Suppl. 2, 1996, s. 847-848 - SCI
- [o1] 1998 Naidyuk, Y. G. - Yanson, I. K.: Point-contact spectroscopy of heavy-fermion systems. In: *Journal of Physics C*, Vol. 10, No. 40, 1998, s. 8905-8938 - SCI ; SCOPUS
- [o1] 1998 Yusof, Z. - Zasadzinski, J. F. - Coffey, L. - Miyakawa, N.: Modeling of tunneling spectroscopy in high-T<sub>c</sub> superconductors incorporating band structure, gap symmetry, group velocity, and tunneling directionality. In: *Physical Review B*, Vol. 58, No. 1, 1998, s. 514-521 - SCI ; SCOPUS
- [o1] 1999 Gloos, K. - Anders, F.: Phase diffusion and suppression of the supercurrent by quantum-mechanical fluctuations of the Josephson plasma at small superconducting point contacts. In: *Journal of Low Temperature Physics*, Vol. 116, No.1-2, 1999, s. 21-60 - SCI ; SCOPUS
- [o1] 1999 Dong, Z. C.: Impurities and interface scattering effect on the differential conductance normal metal-d-wave superconductor junctions. In: *Acta Physica Sinica*, Vol. 48, No. 5, 1999, s. 926-936 - SCI ; SCOPUS
- [o1] 1999 Westbrook, P. S. - Javan, A.: Finite-bias resistance peaks in nanoscale superconductor-normal-metal Ta-W point contacts. In: *Physical Review B*, Vol. 59, No. 22, 1999, s. 14606-14611 - SCI ; SCOPUS
- [o1] 2000 Appenzeller, J. - Jakob, M. - Stah, H.: Spectroscopic measurements on the Andreev reflection probability as a function of temperature. In: *Applied Physics Letters*, Vol. 77, No. 4, 2000, s. 549-551 - SCI ; SCOPUS
- [o1] 2000 Smith, C. W. - Slobodzian, E. V. - Dolan, P. J.: Quasiparticle effects in point contacts of niobium containing hydrogen. In: *Physica B*, Vol. 284, Part 1, 2000, s. 567-568 - SCI ; SCOPUS
- [o1] 1999 Westbrook, P. S. - Javan, A.: Photoresponse and nonequilibrium properties of a superconductor-normal-metal point contact. In: *Physical Review B*, Vol. 59, No. 22, 1999, s. 14612-14617 - SCI ; SCOPUS
- [o1] 2000 Stepurenko, J. I. - Shaternik, V. E. - Rudenko, E. M.: Inelastic effects in Cr-Cr<sub>2</sub>O<sub>3</sub>-Pb-Sn<sub>x</sub>O<sub>y</sub>-Pb double tunnel structures. In: *Low Temperature Physics*, Vol. 26, No. 7, 2000, s. 467-470 - SCI ; SCOPUS
- [o1] 2000 Stepurenko, J. I. - Shaternik, V. E. - Rudenko, E. M.: Stimulation of superconductivity in CrCr<sub>2</sub>O<sub>3</sub>-Pb junction. In: *Metallofizika i novejsie tehnologii*, Vol. 22, No. 8, 2000, s. 6-11 - SCI ; SCOPUS
- [o1] 2001 Balkashin, O. P. - Janson, I. K. - Halbritter, A.: High-frequency behavior of metallic glass Ni<sub>x</sub>Nb<sub>1-x</sub> point-contacts. In: *Solid State Communications*, Vol. 118, No. 12, 2001, s. 623-627 - SCI ; SCOPUS
- [o1] 2001 Jakob, M. - Appenzeller, J. - Knoch, J.: Experimental determination of the Andreev reflection probability using ballistic point contact spectroscopy. In: *Materials Science & Engineering C-Biomimetic and Supramolecular Systems*, Vol.15, No. 1-2, 2001, s. 63-65 - SCI ; SCOPUS
- [o1] 2002 Carapella, G. - Martucciello, N. - Costabile, G.: Josephson effect in Nb/Al<sub>2</sub>O<sub>3</sub>/Al/MgB<sub>2</sub> large-area thin-film heterostructures. In: *Applied Physics Letters*, Vol. 80, No. 16, 2002, s. 2949-2951 - SCI
- [o1] 2002 Slobodzian, E. V. - Smith, C. W. - Dolan, P. J.: Inelastic quasiparticle scattering in normal metal/superconductor point contacts. In: *Physica C*, Vol. 382, No. 4, 2002, s. 401-410 - SCI ; SCOPUS
- [o1] 2003 Dong, Z. C. - Shen, R. - Zheng, Z. M. - Xing, D. Y. - Wang, Z. D.: Coherent quantum transport in ferromagnet/superconductor/ferromagnet structures. In: *Physical Review B*, Vol. 67, No. 13, 2003, Art. No. 134515 - SCI ; SCOPUS
- [o1] 2003 Samuely, P. - Szabo, P. - Kacmarczik, J. - Klein, T. - Jansen, A. G. M.: Point-contact spectroscopy of MgB<sub>2</sub>. In: *Physica C*, Vol. 385, No. 1-2, 2003, s. 244-245 - SCI ; SCOPUS
- [o1] 2003 Schmidt, H. - Zasadzinski, J. F. - Gray, K. E. - Hinks, D. G.: Break-junction tunneling on MgB<sub>2</sub>. In: *Physica C*, Vol. 385, No. 1-2, 2003, s. 221-232 - SCI ; SCOPUS
- [o1] 2004 Samuely, P. - Szabo, P. - Kacmarcik, J. - Klein, T.: Andreev reflection spectroscopy of MgB<sub>2</sub> in the vortex state. In: *Physica C*, Vol. 404, No. 1-4, 2004, s. 460-465 - SCI ; SCOPUS
- [o1] 2005 Bobrov, N. L. - Beloborod'ko, S. I. - Tyutrina, L. V. - Yanson, I. K. - Naugle, D. G. - Rathnayaka, K. D. D.: Point-contact spectroscopy investigation of superconducting-gap anisotropy in the nickel borocarbide compound LuNi<sub>2</sub>B<sub>2</sub>C. In: *Physical Review B*, Vol. 71, No. 1, 2005, Art. No. 014512 - SCI ; SCOPUS

- [o1] 2003 Beloborod'ko, S. I.: Electrical conductance of superconducting point contacts containing magnetic impurities. In: *Low Temperature Physics*, Vol. 29, No. 8, 2003, s. 650-651 - SCI ; SCOPUS
- [o1] 2003 Samuely, P. - Holanova, Z. - Szabo, P. - Kacmarcik, J. - Ribeiro, R. A. - Bud'ko, S. L. - Canfield, P. C.: Two-band/two-gap superconductivity in carbon-substituted MgB<sub>2</sub> evidenced by point-contact spectroscopy. In: *Physical Review B*, Vol. 68, No. 2, 2003, Art. No. 020505 - SCI ; SCOPUS
- [o1] 2003 Shan, L. - Tao, H. J. - Gao, H. - Li, Z. Z. - Ren, Z. A. - Che, G. C. - Wen, H. H.: s-wave pairing in MgCNi<sub>3</sub> revealed by point contact tunneling. In: *Physical Review B*, Vol. 68, No. 14, 2003, Art. No. 144510 - SCI ; SCOPUS
- [o1] 2004 Raychaudhuri, P. - Jaiswal-Nagar, D. - Sheet, G. - Ramakrishnan, S. - Takeya, H.: Evidence of gap anisotropy in superconducting YNi<sub>2</sub>B<sub>2</sub>C using directional point-contact spectroscopy. In: *Physical Review Letters*, Vol. 93, No. 15, 2004, Art. No. 156802 - SCI ; SCOPUS
- [o1] 2004 Holanova, Z. - Szabo, P. - Samuely, P. - Wilke, R. H. T. - Bud'ko, S. L. - Canfield, P. C.: Systematic study of two-band/two-gap superconductivity in carbon-substituted MgB<sub>2</sub> by point-contact spectroscopy. In: *Physical Review B*, Vol. 70, No. 6, 2004, Art. No. 064520 - SCI ; SCOPUS
- [o1] 1995 Zimmermann, P. - Keller, H. - Lee, S. L. - Savic, I. M. - Warden, M. - Zech, D. - Cubitt, R. - Forgan, E. M. - Kaldis, E. - Karpinski, J. - Kruger, C.: Muon-spin-rotation studies of the temperature-dependence of the magnetic penetration depth in the YBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> family and related-compounds. In: *Physical Review B*, Vol. 52, No. 1, 1995, s. 541-552 - SCI
- [o1] 1999 Kacmarcik, J. - Szabo, P. - Samuely, P. - Flachbart, K. - Nader, A. - Briggs, A.: Andreev reflection measurements on the 2D superconductor (LaSe)<sub>1.14</sub>(NbSe<sub>2</sub>)<sub>2</sub>. In: *Physica B*, Vol. 259-261, 1999, s. 985-986 - SCI ; SCOPUS
- [o1] 2005 Kacmarik, J. - Marcenat, C. - Cytermann, C. - da Silva, A. F. - Ortega, L. - Gustafsson, F. - Marcus, J. - Klein, T. - Gheeraert, E. - Bustarret, E.: Superconductivity in boron-doped homoepitaxial (001)-oriented diamond layers. In: *Physica Status Solidi A*, Vol. 202, No. 11, 2005, s. 2160-2165 - SCI ; SCOPUS
- [o1] 2005 Mukhopadhyay, S. - Sheet, G. - Raychaudhuri, P. - Takeya, H.: Magnetic-field dependence of superconducting energy gaps in YNi<sub>2</sub>B<sub>2</sub>C: Evidence of multiband superconductivity. In: *Physical Review B*, Vol. 72, No. 1, 2005, Art. No. 014545 - SCI ; SCOPUS
- [o1] 2005 Shan, L. - Huang, Y. - Gao, H. - Wang, Y. - Li, S. L. - Dai, P. C. - Zhou, F. - Xiong, J. W. - Ti, W. X. - Wen, H. H.: Distinct pairing symmetries in Nd<sub>1.85</sub>Ce<sub>0.15</sub>CuO<sub>4-y</sub> and La<sub>1.89</sub>Sr<sub>0.11</sub>CuO<sub>4</sub> single crystals: Evidence from comparative tunneling measurements. In: *Physical Review B*, Vol. 72, No. 14, 2005, Art. No. 144506 - SCI ; SCOPUS
- [o1] 2005 Tao, Y. C. - Hu, J. G.: Coherent transport and Andreev reflection in ferromagnetic semiconductor/superconductor/ferromagnetic semiconductor double tunneling junctions. In: *Physical Review B*, Vol. 72, No. 16, 2005, Art. No. 165329 - SCI ; SCOPUS
- [o1] 2005 Wei, J. W. - Dong, Z. C.: Effect of the insulating layer on the differential conductance in the normal metal/ insulator/ s-wave superconductor tunnel junctions. In: *Acta Physica Sinica*, Vol. 54, No. 5, 2005, s. 2318-2324 - SCI
- [o1] 2006 Bobrov, N. L. - Beloborod'ko, S. I. - Tyutrina, L. V. - Chernobay, V. N. - Yanson, I. K. - Naugle, D. G. - Rathnayaka, K. D. D.: Investigation of the superconducting energy gap in the compound LuNi<sub>2</sub>B<sub>2</sub>C by the method of point contactspectroscopy: two-gap approximation. In: *Low Temperature Physics*, Vol. 32, No. 4-5, 2006, s. 489-496 - SCI ; SCOPUS
- [o1] 2006 Samuely, P. - Szabo, P. - Hol'anova, Z. - Bud'ko, S. - Canfield, P.: Intraband scattering studies in carbon- and aluminium-doped MgB<sub>2</sub>. In: *Physica C*, Vol. 435, No. 1-2, 2006, s. 71-73 - SCI ; SCOPUS
- [o1] 2006 Shan, L. - Huang, Y. - Ren, C. - Wen, H. H.: Vortex overlapping in a BCS type-II superconductor revealed by Andreev reflection spectroscopy. In: *Physical Review B*, Vol. 73, No. 13, 2006, Art. No. 134508 - SCI ; SCOPUS
- [o1] 2006 Smith, C. W. - Dolan Jr., P. J.: Inelastic scattering effects in point contacts between a spin polarized normal metal and a superconductor. In: *AIP Conference Proceedings*, Vol. 850, 2006, s. 895-896 - SCOPUS
- [o1] 2006 Tang, L. - Zou, P. Y. - Shan, L. - Dong, A. F. - Che, G. C. - Wen, H. H.: Electrical resistivity and Andreev reflection spectroscopy of the superconducting oxide spinel LiTi<sub>2</sub>O<sub>4</sub>. In: *Physical Review B*, Vol. 73, No. 18, 2006, Art. No. 184521 - SCI ; SCOPUS
- [o1] 2007 Chalsani, P. - Upadhyay, S. K. - Ozatay, O. - Buhrman, R. A.: Andreev reflection measurements of spin polarization. In: *Physical Review B*, Vol. 75, No. 9, 2007, Art. No. 094417 - SCI ; SCOPUS
- [o1] 2007 Li, H. - Yang, W. - Yang, X. - Qin, M. - Xu, Y.: Spin-filtering effect and proximity effect in normal metal/ferromagnetic insulator/normal metal/superconductor junctions. In: *Journal of Magnetism and Magnetic Materials*, Vol. 315, No.2, 2007, s. 77-81 - SCI ; SCOPUS

- [o1] 2007 Mukhopadhyay, S. - Raychaudhuri, P. - Joshi, D. A. - Tomy, C. V.: Temperature dependence of transport spin polarization in Nd Ni<sub>5</sub> from point-contact Andreev reflection. In: Physical Review B, Vol. 75, No. 1, 2007, Art. No. 014504 - SCOPUS
- [o1] 2007 Parker, D. - Thalmeier, P.: Theory of tunneling spectroscopy in UPd<sub>2</sub>Al<sub>3</sub>. In: Physical Review B, Vol. 75, No. 18, 2007, Art. No. 184502 - SCI ; SCOPUS
- [o1] 2007 Szabo, P. - Samuely, P. - Pribulova, Z. - Angst, M. - Budko, S. - Canfield, P. C. - Marcus, J.: Point-contact spectroscopy of Al- and C-doped MgB<sub>2</sub>: Superconducting energy gaps and scattering studies. In: Physical Review B, Vol. 75, No. 14, 2007, Art. No. 144507 - SCI ; SCOPUS
- [o1] 2008 Akimenko, A. I. - Gudimenko, V. A.: Possibility of s-wave pairing in heavily Zn-doped YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7- $\delta$</sub>  based on a magnetic field effect on the Andreev reflection spectra. In: Low Temperature Physics, Vol. 34, No. 11, 2008, s. 884-887- SCI ; SCOPUS
- [o1] 2008 Chen, T. Y. - Tesanovic, Z. - Liu, R. H. - Chen, X. H. - Chien, C. L.: A BCS-like gap in the superconductor SmFeAsO<sub>0.85</sub>F<sub>0.15</sub>. In: Nature, Vol. 453, No. 7199, 2008, s. 1224-1227 - SCI ; SCOPUS
- [o1] 2008 Daghero, D. - Delaude, D. - Calzolari, A. - Tortello, M. - Ummarino, G. A. - Gonnelli, R. S. - Stepanov, V. A. - Zhigadlo, N. D. - Katrych, S. - Karpinski, J.: Point-contact Andreev-reflection spectroscopy in segregation-free Mg<sub>1-x</sub>Al<sub>x</sub>B<sub>2</sub> single crystals up to x=0.32. In: Journal of Physics Condensed Matter, Vol. 20, No. 8, 2008, Art. No. 085225 - SCI ; SCOPUS
- [o1] 2008 Geresdi, A. - Halbritter, A. - Csontos, M. - Csonka, S. - Mihaly, G. - Wojtowicz, T. - Liu, X. - Janko, B. - Furdyna, J. K.: Nanoscale spin polarization in the dilute magnetic semiconductor (In,Mn)Sb. In: Physical Review B, Vol. 77, No. 23, 2008, Art. No. 233304 - SCI ; SCOPUS
- [o1] 2008 Gonnelli, R. S. - Daghero, D. - Delaude, D. - Tortello, M. - Ummarino, G. A. - Stepanov, V. A. - Kim, J. S. - Kremer, R. K. - Sanna, A. - Profeta, G. - Massidda, S.: Evidence for gap anisotropy in CaC<sub>6</sub> from directional point-contact spectroscopy. In: Physical Review Letters, Vol. 100, No. 20, 2008, Art. No. 207004 - SCI ; SCOPUS
- [o1] 2008 Huang, Y. - Yan, J. - Wang, Y. - Shan, L. - Luo, Q. - Wang, W. - Wen, H. H.: Isotropic s-wave pairing symmetry in non-centrosymmetric Re<sub>3</sub>W revealed by point-contact spectroscopy. In: Superconductor Science and Technology, Vol. 21, No. 7, 2008, Art. No. 075011 - SCI ; SCOPUS
- [o1] 2008 Li, H. - Yang, X. - Liu, C. - Zhong, P.: Proximity effects and finite-quasiparticle-lifetime effects in normal metal/ferromagnetic semiconductor/superconductor structures. In: Physica C, Vol. 468, No. 22, 2008, s. 2288-2291 - SCI ; SCOPUS
- [o1] 2008 Mukhopadhyay, S. - Dhar, S. K. - Raychaudhuri, P.: Study of spin fluctuations in Ni<sub>3</sub> +/- xAl<sub>1</sub> +/- x using point contact Andreev reflection spectroscopy. In: Applied Physics Letters, Vol. 93, No. 10, 2008, Art. No. 102502 - SCI ; SCOPUS
- [o1] 2008 Pribulova, Z. - Szabo, P. - Kacmarcik, J. - Samuely, P. - Jang, D. J. - Lee, H. G. - Lee, H. S. - Lee, S. I.: Point-contact spectroscopy of superconducting MgCNi<sub>3</sub> single crystals. In: Acta Physica Polonica A, Vol. 113, No. 1, 2008, s. 215-218 - SCI ; SCOPUS
- [o1] 2008 Shan, L. - Huang, Y. - Wang, Y. L. - Li, S. - Zhao, J. - Dai, P. - Zhang, Y. Z. - Ren, C. - Wen, H. H.: Weak-coupling Bardeen-Cooper-Schrieffer superconductivity in the electron-doped cuprate superconductors. In: Physical Review B, Vol. 77, No. 1, 2008, Art. No. 014526 - SCI ; SCOPUS
- [o1] 2009 Daghero, D. - Tortello, M. - Gonnelli, R. S. - Stepanov, V. A. - Zhigadlo, N. D. - Karpinski, J.: Evidence for two-gap nodeless superconductivity in SmFeAsO<sub>1-x</sub>F<sub>x</sub> from point-contact Andreev-reflection spectroscopy. In: Physical Review B, Vol. 80, No. 6, 2009, Art. No. 060502 - SCI ; SCOPUS
- [o1] 2009 Daghero, D. - Tortello, M. - Gonnelli, R. S. - Stepanov, V. A. - Zhigadlo, N. D. - Karpinski, J.: Possible multigap superconductivity in SmFeAsO<sub>0.8</sub>F<sub>0.2</sub>: A point-contact Andreev-reflection spectroscopy study. In: Journal of Superconductivity and Novel Magnetism, Vol. 22, No. 6, 2009, s. 543-547 - CPCI-S ; SCOPUS
- [o1] 2009 Gonnelli, R. S. - Daghero, D. - Tortello, M. - Ummarino, G. A. - Stepanov, V. A. - Kremer, R. K. - Kim, J. S. - Zhigadlo, N. D. - Karpinski, J.: Point-contact Andreev-reflection spectroscopy in ReFeAsO<sub>1-x</sub>F<sub>x</sub> (Re = La, Sm): Possible evidence for two nodeless gaps. In: Physica C, Vol. 469, No. 9-12, 2009, s. 512-520 - SCI ; SCOPUS
- [o1] 2009 Gonnelli, R. S. - Daghero, D. - Tortello, M. - Ummarino, G. A. - Stepanov, V. A. - Kim, J. S. - Kremer, R. K.: Coexistence of two order parameters and a pseudogaplike feature in the iron-based superconductor LaFeAsO<sub>1-x</sub>F<sub>x</sub>. In: Physical Review B, Vol. 79, No. 18, 2009, Art. No. 184526 - SCI ; SCOPUS

- [o1] 2009 Gonnelli, R. S. - Tortello, M. - Daghero, D. - Ummarino, G. A. - Stepanov, V. A. - Kim, J. S.: Two-gap superconductivity in the Fe-1111 superconductor LaFeAsO<sub>1-x</sub>F<sub>x</sub>: A point-contact Andreev-reflection study. In: Central European Journal of Physics, Vol. 7, No. 2, 2009, s. 251-256 - SCI ; SCOPUS
- [o1] 2009 Chiang, T. W. - Chiu, Y. H. - Huang, S. Y. - Lee, S. F. - Liang, J. J. - Jaffrs, H. - George, J. M. - Lemaitre, A.: Spectra broadening of point-contact Andreev reflection measurement on GaMnAs. In: Journal of Applied Physics, Vol. 105, No. 7, 2009, Art. No. 07C507 - CPCI-S ; SCOPUS
- [o1] 2009 Karpinski, J. - Zhigadlo, N. D. - Katrych, S. - Bukowski, Z. - Moll, P. - Weyeneth, S. - Keller, H. - Puzniak, R. - Tortello, M. - Daghero, D. - Gonnelli, R. - Maggio-Aprile, I. - Fasano, Y. - Fischer, O. - Rogacki, K. - Batlogg, B.: Single crystals of LnFeAsO<sub>1-x</sub>F<sub>x</sub> (Ln = La, Pr, Nd, Sm, Gd) and Ba<sub>1-x</sub>Rb<sub>x</sub>Fe<sub>2</sub>As<sub>2</sub>: Growth, structure and superconducting properties. In: Physica C, Vol. 469, No. 9-12, 2009, s. 370-380 - SCI ; SCOPUS
- [o1] 2009 Li, H. - Yang, X. - Guo, J.: Spin dependent Andreev reflection in ferromagnetic semiconductor/d-wave superconductor ballistic junction. In: Physica C, Vol. 469, No. 13, 2009, s. 707-712 - SCI ; SCOPUS
- [o1] 2009 Lu, X. - Park, W. K. - Choi, K. Y. - Lee, S. I. - Yeo, S. - Budko, S. L. - Canfield, P. C. - Greene, L. H.: Point-contact Andreev reflection tunneling spectroscopic (PCARTS) study of the superconducting gap structure in LuNi<sub>2</sub>B<sub>2</sub>C. In: Journal of Physics Conference Series, Vol. 150, No. 5, 2009, Art. No. 052143 - CPCI-S ; SCOPUS
- [o1] 2009 Pallecchi, I. - Brotto, P. - Ferdeghini, C. - Putti, M. - Palenzona, A. - Manfrinetti, P. - Geddo Lehmann, A. - Orecchini, A. - Petrillo, C. - Sacchetti, F. - Affronte, M. - Allodi, G. - De Renzi, R. - Serventi, S. - Andreone, A. - Lamura, G. - Daghero, D. - Gonnelli, R. S. - Tortello, M.: Investigation of Li-doped MgB<sub>2</sub>. In: Superconductor Science and Technology, Vol. 22, No. 9, 2009, Art. No. 095014 - SCI ; SCOPUS
- [o1] 2009 Parker, D.: Proposal to detect plane-parallel nodal lines in Sr<sub>2</sub>RuO<sub>4</sub> via tunneling spectroscopy. In: Physical Review B, Vol. 80, No. 22, 2009, Art. No. 220508 - SCI ; SCOPUS
- [o1] 2009 Samuely, P. - Szabo, P. - Pribulova, Z. - Tillman, M. E. - Budko, S. L. - Canfield, P. C.: Possible two-gap superconductivity in NdFeAsO<sub>0.9</sub>F<sub>0.1</sub> probed by point-contact Andreev-reflection spectroscopy. In: Superconductor Science and Technology, Vol. 22, No. 1, 2009, Art. No. 014003 - SCI
- [o1] 2009 Smith, C. W. - Dolan Jr., P. J.: Effect of applied magnetic field on the estimation of spin polarization from point contacts. In: Journal of Physics Conference Series, Vol. 150, No. 5, 2009, Art. No. 052243 - SCOPUS
- [o1] 2009 Szabo, P. - Pribulova, Z. - Pristas, G. - Budko, S. L. - Canfield, P. C. - Samuely, P.: Evidence for two-gap superconductivity in Ba<sub>0.55</sub>K<sub>0.45</sub>Fe<sub>2</sub>As<sub>2</sub> from directional point-contact Andreev-reflection spectroscopy. In: Physical Review B, Vol. 79, No. 1, 2009, Art. No. 012503 - SCI ; SCOPUS
- [o1] 2009 Tortello, M. - Daghero, D. - Ummarino, G. A. - Gonnelli, R. S. - Stepanov, V. A. - Kim, J. S.: Point-contact Andreev-reflection spectroscopy in the Fe-based superconductor LaFeAsO<sub>1-x</sub>F<sub>x</sub>. In: Journal of Superconductivity and Novel Magnetism, Vol. 22, No. 6, 2009, s. 553-557 - CPCI-S ; SCOPUS
- [o1] 2009 Wang, Y. L. - Shan, L. - Fang, L. - Cheng, P. - Ren, C. - Wen, H. H.: Multiple gaps in SmFeAsO<sub>0.9</sub>F<sub>0.1</sub> revealed by point-contact spectroscopy. In: Superconductor Science and Technology, Vol. 22, No. 1, 2009, Art. No. 015018 - SCI ; SCOPUS
- [o1] 2009 Wei, J. W.: Tunneling conductance in quantum wire/insulator/dx<sup>2</sup>-y<sup>2</sup> + id xy mixed wave superconductor junctions. In: Chinese Physics B, Vol. 18, No. 10, 2009, s. 4479-4485 - SCI ; SCOPUS
- [o1] 2009 Ying, Y. A. - Xin, Y. - Clouser, B. W. - Hao, E. - Staley, N. E. - Myers, R. J. - Allard, L. F. - Fobes, D. - Liu, T. - Mao, Z. Q. - Liu, Y.: Suppression of proximity effect and the enhancement of p-wave superconductivity in the Sr<sub>2</sub>RuO<sub>4</sub>-Ru system. In: Physical Review Letters, Vol. 103, No. 24, 2009, Art. No. 247004 - SCI ; SCOPUS
- [o1] 2010 Bai, C. - Wang, J. - Yang, Y.: Coherent quantum transport in graphene-based normal metal-superconductor double junctions. In: Physica E, Vol. 42, No. 7, 2010, s. 1923-1927 - SCI ; SCOPUS
- [o1] 2010 Bai, C., Yang, Y.: Tunneling conductance in graphene-based normal metal-insulator-superconductor junctions. In: Physics Letters A, Vol. 374, No. 6, 2010, s. 882-885 - SCI ; SCOPUS
- [o1] 2010 Daghero, D. - Gonnelli, R. S.: Probing multiband superconductivity by point-contact spectroscopy. In: Superconductor Science and Technology, Vol. 23, No. 4, 2010, Art. No. 043001 - SCI ; SCOPUS
- [o1] 2010 Girovsky, J. - Szabo, P. - Mori, T. - Samuely, P.: Strong-coupling features in YB<sub>6</sub> and ZrB<sub>12</sub> studied by point-contact spectroscopy. In: Acta Physica Polonica A, Vol. 118, No. 5, 2010, s. 1042-1044 - SCI ; SCOPUS
- [o1] 2010 Krivoruchko, V. N. - Tarenkov, V. Y. - Varyukhin, D. V. - Dyachenko, A. I. - Pashkova, O. N. - Ivanov, V. A.: Unconventional ferromagnetism and transport properties of (In,Mn)Sb dilute magnetic semiconductor. In: Journal of Magnetism and Magnetic Materials, Vol. 322, No. 8, 2010, s. 915-923 - SCI ; SCOPUS

- [o1] 2010 Lu, X. - Park, W. K. - Yuan, H. Q. - Chen, G. F. - Luo, G. L. - Wang, N. L. - Sefat, A. S. - McGuire, M. A. - Jin, R. - Sales, B. C. - Mandrus, D. - Gillett, J. - Sebastian, S. E. - Greene, L. H.: Point-contact spectroscopic studies on normal and superconducting AFe<sub>2</sub>As<sub>2</sub>-type iron pnictide single crystals. In: Superconductor Science and Technology, Vol. 23, No. 5, 2010, Art. No. 054009 - SCI ; SCOPUS
- [o1] 2010 Tran, V. H. - Batkova, M. - Batko, I. - Pribulova, Z. - Bukowski, Z.: Observation of pseudogap in the normal state of superconducting Mo<sub>3</sub>Sb<sub>7</sub>. In: Physica Status Solidi B, Vol. 247, No. 3, 2010, s. 628-630 - SCI ; SCOPUS
- [o1] 2010 Wei, J. - Sheet, G. - Chandrasekhar, V.: Possible microscopic origin of large broadening parameter in point Andreev reflection spectroscopy. In: Applied Physics Letters, Vol. 97, No. 6, 2010, Art. No. 062507 - SCI ; SCOPUS
- [o1] 2010 Wei, J.: Quantum point contact conductance in normal metal/insulator/ metal/dx<sup>2</sup> - y<sup>2</sup> + i dx y mixed wave superconductor junctions. In: 2010 Solid State Communications, Vol. 150, No. 15-16, 2010, s. 777-781 - SCI ; SCOPUS
- [o1] 2011 Daghero, D. - Tortello, M. - Ummarino, G. A. - Gonnelli, R. S.: Directional point-contact Andreev-reflection spectroscopy of Fe-based superconductors: Fermi surface topology, gap symmetry, and electron-boson interaction. In: Reportson Progress in Physics, Vol. 74, No. 12, 2011, Art. No. 124509 - SCI ; SCOPUS
- [o1] 2011 Kuzmanovski, D. - Vavilov, M. G.: Differential conductance of point contacts between an iron-based superconductor and a normal metal. In: Physical Review B, Vol. 84, No. 6, 2011, Art. No. 060514 - SCI ; SCOPUS
- [o1] 2011 Lu, X. - Park, W. K. - Yeo, S. - Oh, K. H. - Lee, S. I. - Bud'ko, S. L. - Canfield, P. C. - Greene, L. H.: Superconducting order parameter in nonmagnetic borocarbides RNi<sub>2</sub>B<sub>2</sub>C (R = Y, Lu) probed by point-contact Andreev reflectionspectroscopy. In: Physical Review B, Vol. 83, No. 10, 2011, Art. No. 104519 - SCI ; SCOPUS
- [o1] 2011 Naidyuk, Y. G. - Kvitnitskaya, O. E. - Tiutrina, L. V. - Yanson, I. K. - Behr, G. - Fuchs, G. - Drechsler, S. L. - Nenkov, K. - Schultz, L.: Peculiarities of the superconducting gaps and the electron-boson interaction in TmNi<sub>2</sub>B<sub>2</sub>C asseen by point-contact spectroscopy. In: Physical Review B, Vol. 84, No. 9, 2011, Art. No. 094516 - SCI ; SCOPUS
- [o1] 2011 Pribulova, Z. - Kacmarcik, J. - Marcenat, C. - Szabo, P. - Klein, T. - Demuer, A. - Rodiere, P. - Jang, D. J. - Lee, H. S. - Lee, H. G. - Lee, S. I. - Samuely, P.: Superconducting energy gap in MgCNi<sub>3</sub> single crystals: Point-contactspectroscopy and specific-heat measurements. In: Physical Review B, Vol. 83, No. 10, 2011, Art. No. 104511 - SCI ; SCOPUS
- [o1] 2011 Smith, C. W. - Dolan, P. J. J.: Determining transport parameters for superconductor/normal metal point contacts at fixed temperature from conductance versus magnetic field data. In: Physica C- Superconductivity and Its Applications, Vol. 471, No. 9-10, 2011, s. 285-289 - SCI ; SCOPUS
- [o1] 2011 Tuuli, E. - Gloos, K.: Andreev-reflection spectroscopy of ferromagnets: The impact of Fermi surface mismatch. In: Low Temperature Physics, Vol. 37, No. 6, 2011, s. 485-488 - SCI ; SCOPUS
- [o1] 2011 Tuuli, E. - Gloos, K.: Andreev-reflection spectroscopy of ferromagnets: The impact of Fermi surface mismatch. In: Fizika Nizkikh Temperatur (Kharkov), Vol. 37, No. 6, 2011, s. 609-613 - SCOPUS
- [o1] 2011 Ummarino, G. A. - Daghero, D. - Tortello, M. - Gonnelli, R. S.: Predictions of multiband s<sup>+</sup>- strong-coupling Eliashberg theory compared to experimental data in iron pnictides. In: Journal of Superconductivity and Novel Magnetism, Vol. 24, No. 1-2, 2011, s. 247-253 - SCI ; SCOPUS
- [o1] 2011 Zhigadlo, N. D. - Katrych, S. - Bendele, M. - Moll, P. J. W. - Tortello, M. - Weyeneth, S. - Pomjakushin, V. Y. - Kanter, J. - Puzniak, R. - Bukowski, Z. - Keller, H. - Gonnelli, R. S. - Khasanov, R. - Karpinski, J. - Batlogg, B.: Interplay of composition, structure, magnetism, and superconductivity in SmFeAs<sub>1-x</sub>PxO<sub>1-y</sub>. In: Physical Review B, Vol. 84, No. 13, 2011, Art. No. 134526 - SCI ; SCOPUS
- [o1] 2012 Chen, T. Y. - Tesanovic, Z. - Chien, C. L.: Unified formalism of Andreev reflection at a ferromagnet/superconductor interface. In: Physical Review Letters, Vol. 109, No. 14, 2012, Art. No. 146602 - SCI ; SCOPUS
- [o1] 2012 Chiang, Y. N. - Dzyuba, M. O. - Shevchenko, O. G. - Vasiliev, A. N.: Conductance of non-ballistic point contacts in hybrid systems "normal metal/superconductor" Cu/Mo-C and Cu/LaOFFeAs. In: Physica C: Superconductivity and ItsApplications, Vol. 483, 2012, s. 149-155 - SCI ; SCOPUS
- [o1] 2012 Daghero, D. - Tortello, M. - Ummarino, G. A. - Stepanov, V. A. - Bernardini, F. - Tropeano, M. - Putti, M. - Gonnelli, R. S.: Effects of isoelectronic Ru substitution at the Fe site on the energy gaps of optimally F-doped SmFeAsO. In: Superconductor Science & Technology, Vol. 25, No. 8, 2012, Art. No. 084012 - SCI ; SCOPUS



- [o1] 2012 Li, H. - Yang, X.: Tunneling conductance in topological insulator ferromagnet/p-wave superconductor junctions. In: Solid State Communications, Vol. 152, No. 17, 2012, s. 1655-1659 - SCI ; SCOPUS
- [o1] 2012 Peng, H. - De, D. - Wu, Z. - Diaz-Pinto, C.: Observation of multiple superconducting gaps in  $\text{Fe}_{1+y}\text{Te}_{1-x}\text{S}_x$  via a nanoscale approach to point-contact spectroscopy. In: Journal of Physics-Condensed Matter, Vol. 24, No. 45, 2012, Art.No. 455703 - SCI ; SCOPUS
- [o1] 2012 Tortello, M. - Daghero, D. - Ummarino, G. A. - Stepanov, V. A. - Zhigadlo, N. D. - Karpinski, J. - Jiang, J. - Gonnelli, R. S.: Point-contact andreev-reflection spectroscopy in Fe-Based superconductors: Multigap superconductivity and strong electron-boson interaction. In: Journal of Superconductivity and Novel Magnetism, Vol. 25, No. 5, 2012, s. 1297-1301 - SCI ; SCOPUS
- [o1] 2012 Tuuli, E. - Gloos, K.: Normal reflection at superconductor - normal metal interfaces due to Fermi surface mismatch. In: 26th International Conference on Low Temperature Physics (Lt26), Pts 1-5 : Journal of Physics Conference Series, Vol. 400. Bristol : IOP Publishing Ltd, 2012, Art. No. 042066 - CPCI-S ; SCOPUS
- [o1] 2012 Tuuli, E. - Gloos, K.: Spin polarization versus lifetime effects at point contacts between superconducting niobium and normal metals. In: 26th International Conference on Low Temperature Physics (Lt26), Pts 1-5 : Journal of Physics Conference Series, Vol. 400. Bristol : IOP Publishing Ltd, 2012, Art. No. 042065 - CPCI-S ; SCOPUS
- [o1] 2013 Daghero, D. - Tortello, M. - Pecchio, P. - Stepanov, V. A. - Gonnelli, R. S.: Point-contact Andreev-reflection spectroscopy in anisotropic superconductors: The importance of directionality. In: Low Temperature Physics, Vol. 39, No.3, 2013, s. 199-210 - SCI ; SCOPUS
- [o1] 2013 Gloos, K. - Tuuli, E.: Andreev-reflection spectroscopy with superconducting indium-A case study. In: Low Temperature Physics, Vol. 39, No. 3, 2013, s. 252-258 - SCI ; SCOPUS
- [o1] 2013 Gloos, K. - Tuuli, E.: Electron and hole transmission through superconductor - Normal metal interfaces. In: Journal of the Korean Physical Society, Vol. 62, No. 10, 2013, s. 1575-1579 - SCI ; SCOPUS
- [o1] 2013 Gonnelli, R. S. - Daghero, D. - Tortello, M.: Point contact spectroscopy in Fe-based superconductors: Recent advancements and future challenges. In: Current Opinion in Solid State & Materials Science, Vol. 17, No. 2, 2013, s. 72-80 -SCI ; SCOPUS
- [o1] 2013 Li, X.: Spin-orbit coupling and finite quasi-particle lifetime effects in normal metal/triplet superconductor junctions. In: Physica C: Superconductivity and Its Applications, Vol. 485, 2013, s. 35-38 - SCI ; SCOPUS
- [o1] 2013 Peng, H. - De, D. - Lv, B. - Wei, F. - Chu, C. W.: Absence of zero-energy surface bound states in  $\text{Cu}_x\text{Bi}_2\text{Se}_3$  studied via Andreev reflection spectroscopy. In: Physical Review B, Vol. 88, No. 2, 2013, Art. No. 024515 - SCI ; SCOPUS
- [o1] 2013 Szabo, P. - Girovsky, J. - Pribulova, Z. - Kacmarcik, J. - Mori, T. - Samuely, P.: Point-contact spectroscopy of the phononic mechanism of superconductivity in YB6. In: Superconductor Science & Technology, Vol. 26, No. 4, 2013, Art.No. 045019 - SCI ; SCOPUS
- [o1] 2014 Gallagher, P. - Lee, M. - Williams, J. R. - Goldhaber-Gordon, D.: Gate-tunable superconducting weak link and quantum point contact spectroscopy on a strontium titanate surface. In: Nature Physics, Vol. 10, No. 10, 2014, s. 748-752 -SCI
- [o1] 2014 Geresdi, A. - Csontos, M. - Gubicza, A. - Halbritter, A. - Mihaly, G.: A fast operation of nanometer-scale metallic memristors: highly transparent conductance channels in  $\text{Ag}_2\text{S}$  devices. In: Nanoscale, Vol. 6, No. 5, 2014, s. 2613-2617- SCI ; SCOPUS
- [o1] 2014 Gloos, K. - Tuuli, E.: Mechanisms of normal reflection at metal interfaces studied by Andreev-reflection spectroscopy. In: Low Temperature Physics, Vol. 40, No. 10, 2014, s. 902-906 - SCI ; SCOPUS
- [o1] 2014 Sobota, R. - Plecenik, T. - Gregor, M. - Truchly, M. - Satrapinsky, L. - Vidis, M. - Secianska, K. - Kurth, F. - Holzapfel, B. - Iida, K. - Kus, P. - Plecenika, A.: Surface properties of Co-doped  $\text{BaFe}_2\text{As}_2$  thin films deposited on MgO with Fe buffer layer and  $\text{CaF}_2$  substrates. In: Applied Surface Science, Vol. 312, 2014, s. 182-187 - SCI
- [o1] 2014 Yu, W. - Jiang, Y. - Huan, C. - Chen, X. - Jiang, Z. - Hawkins, S. D. - Klem, J. F. - Pan, W.: Superconducting proximity effect in inverted  $\text{InAs}/\text{GaSb}$  quantum well structures with Ta electrodes. In: Applied Physics Letters, Vol. 105, No. 19, 2014, Art. No. 192107 - SCI ; SCOPUS
- [o1] 2015 Haskova, V. - Szabo, P. - Kovac, J. - Ryba, T. - Vargova, Z. - Varga, R.: Andreev reflection spectroscopy study of spin polarization in  $\text{Co}_2\text{Cr}(\text{Fe})\text{Al}$  heusler alloys. In: Acta Physica Polonica A, Vol. 127, No. 2, 2015, s. 377-378 - SCI ; SCOPUS

[o1] 2015 Tuuli, E. - Gloos, K.: Spin polarization and suppression of superconductivity at nanoscale ferromagnet superconductor interfaces. In: Journal of Low Temperature Physics, Vol. 178, No. 5-6, 2015, s. 367-382 - SCI ; SCOPUS

ADC05 Plecenik, Andrej [UKOMFKEF] - Seidel, Paul - Grajcar, Miroslav [UKOMFKEF] - Beňčka, Štefan - Darula, Marián - Pfuch, Andreas: Study of point contacts with Au-tip in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> and Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>y</sub> thin films  
Lit. 7 zázň., 1 obr.  
In: Physica B - Condensed Matter. - Vol. 194-196, Part 2 (1994), s. 2415-2416  
*Indikátor časopisu:*  
IF (JCR) 1994=1,144

ADC06 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Seidel, Paul - Pfuch, Andreas: Influence of inelastic effects on differential conductance of a high-T<sub>c</sub> superconductor/metal junction  
In: Physical Review B - Condensed Matter. - Vol. 51, No. 22 (1995), s. 16185-16187  
*Indikátor časopisu:*  
IF (JCR) 1995=2,834

*Ohlasy (16):*

[o3] 1996 Samuely, P.: Studies of HTS, Vol. 20. New York : Nova Science Publishers, 1996, S. 163

[o1] 1996 de Wilde, Y. - Klapwijk, T. M. - Jansen, A. G. M. - Heil, J. - Wyder, P.: Quasi-particle lifetime broadening in normal-superconductor junctions with UPt<sub>3</sub>. In: Physica B, Vol. 218, No. 1-4, 1996, s. 165-168 - SCI ; SCOPUS

[o1] 1997 Aleszkiewicz, M. - Aleszkiewicz, P. - Raluszkiwicz, J.: Scanning tunneling spectroscopy sensitive to layer structure of BSCCO. In: Acta Physica Polonica A, Vol. 91, No. 3, 1997, s. 597-604 - SCI

[o1] 1997 Aleszkiewicz, M. - Aleszkiewicz, P. - Raluszkiwicz, J.: The analysis of tunneling characteristics measured on Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> surface. In: Czechoslovak Journal of Physics, Vol. 47, No. 4, 1997, s. 367-372 - SCI ; SCOPUS

[o1] 2000 D'yachenko, A. I. - Tarenkov, V. Y. - Szymczak, R. - Abal'oshev, A. V. - Abal'osheva, I. S. - Lewandowski, S. J. - Leonyuk, L.: d-wave superconductivity of the hole-doped (SrCa)(10)Cu<sub>17</sub>O<sub>29</sub> ladder compound. In: Physical Review B, Vol.61, No. 2, 2000, s. 1500-1505 - SCI ; SCOPUS

[o1] 2001 Shaternik, V. I. - Ivanitskii, V. A. - Rudenko, V. M.: Inelastic effects in tunnelling junctions based on the high- T<sub>c</sub> superconductors. In: Metallofizika i Noveishie Tekhnologii, Vol. 23, No. 6, 2001, s. 755-766 - SCI

[o1] 2001 Shaternik, V. I. - Stepurenko, Y. I. - Rudenko, V. M. - Belogolov'sky, M. O.: Inelastic tunnelling in the thin film junctions with chromium oxide. In: Metallofizika i Noveishie Tekhnologii, Vol. 23, No. 5, 2001, s. 591-596 - SCI

[o1] 2003 Halbritter, J.: A review of weak/strong links and junctions in high-T<sub>c</sub> superconductors as a transition to a Mott insulator. In: Superconductor Science & Technology, Vol. 16, No. 10, 2003, s. R47-R69 - SCI ; SCOPUS

[o1] 2006 Piano, S. - Bobba, F. - Giubileo, F. - Cucolo, A. M. - Gombos, M. - Vecchione, A.: Pairing state in the ruthenocuprate superconductor RuSr<sub>2</sub>GdCu<sub>2</sub>O<sub>8</sub>: A point-contact Andreev reflection spectroscopy study. In: Physical Review B, Vol.73, No. 6, 2006, Art. No. 064514 - SCI ; SCOPUS

[o1] 2000 Stepurenko, Y. I. - Shaternik, V. E. - Rudenko, E. M.: Inelastic effects in Cr-Cr<sub>2</sub>O<sub>3</sub>-Pb-Sn<sub>x</sub>O<sub>y</sub>-Pb double tunnel structures. In: Low Temperature Physics, Vol. 26, No. 7, 2000, s. 467-470 - SCI ; SCOPUS

[o1] 2000 Stepurenko, Y. I. - Shaternik, V. E. - Rudenko, E. M.: Stimulation of superconductivity in CrCr<sub>2</sub>O<sub>3</sub>-Pb junction. In: Metallofizika i Noveishie Tekhnologii, Vol. 22, No. 8, 2000, s. 6-11 - SCI

[o1] 2007 Parker, D. - Thalmeier, P.: Theory of tunneling spectroscopy in UPd<sub>2</sub>Al<sub>3</sub>. In: Physical Review B, Vol. 75, No. 18, 2007, Art. No. 184502 - SCI ; SCOPUS

[o1] 2009 Parker, D.: Proposal to detect plane-parallel nodal lines in Sr<sub>2</sub> RuO<sub>4</sub> via tunneling spectroscopy. In: Physical Review B, Vol. 80, No. 22, 2009, Art. No. 220508 - SCI ; SCOPUS

[o1] 2009 Wei, J. W.: Tunneling conductance in quantum wire/insulator/dx<sub>2</sub>-y<sub>2</sub> + id xy mixed wave superconductor junctions. In: Chinese Physics B, Vol. 18, No. 10, 2009, s. 4479-4485 - SCOPUS

[o1] 2010 Bobrov, N. L. - Chernobay, V. N. - Naidyuk, Y. G. - Tyutrina, L. V. - Yanson, I. K. - Naugle, D. G. - Rathnayaka, K. D. D.: Observation of an anisotropic effect of antiferromagnetic ordering on the superconducting gap in ErNi<sub>2</sub>B<sub>2</sub>C. In: Low Temperature Physics, Vol. 36, No. 10, 2010, s. 990-1003 - SCI ; SCOPUS

- [o1] 2013 Li, X.: Spin-orbit coupling and finite quasi-particle lifetime effects in normal metal/triplet superconductor junctions. In: Physica C: Superconductivity and Its Applications, Vol. 485, 2013, s. 35-38 - SCI ; SCOPUS
- ADC07 Seidel, Paul - Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Pfuch, Andreas - Beňačka, Štefan: Point contact investigation on Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+y</sub> thin films  
In: Journal of Superconductivity. - Vol. 8, No. 5 (1995), s. 643-644  
[HTS 1995 : High-Temperature Superconductivity : Physical Properties and Mechanisms : Workshop. Miami, 5.-11.1.1995]  
*Indikátor časopisu:*  
IF (JCR) 1995=1,107
- ADC08 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Seidel, Paul - Vojtanik, Viktor - Barholz, Kai-Uv: Bias voltage assymetry of inelastic differential conductivity of HTS/metal tunnel junctions  
In: Czechoslovak Journal of Physics. - Vol. 46, Suppl. 2 (1996) s. 1017-1018  
[Low Temperature Physics 1996 : International Conference. 21st, Prague, 8.-14.8.1996]  
*Indikátor časopisu:*  
IF (JCR) 1996=0,339
- ADC09 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Seidel, Paul - Nebel, R. - Schmauder, Torst - Beňačka, Štefan - Darula, Marián: Modification of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-DELTA.-Au point contact interface properties by applied electric voltage  
In: Physica B - Condensed Matter. - Vol. 218, No. 1-4 (1996), s. 209-212  
*Indikátor časopisu:*  
IF (JCR) 1996=0,864  
*Ohlasy (3):*  
[o1] 2010 Tulina, N. A. - Borisenko, I. Y. - Ionov, A. M. - Shmytko, I. M.: Bipolar resistive switching in heterostructures: Bismuth oxide/normal metal. In: Solid State Communications, Vol. 150, No. 43-44, 2010, s. 2089-2092 - SCI ; SCOPUS  
[o1] 2012 Tulina, N. A. - Borisenko, I. Y. - Shmytko, I. M. - Ionov, A. M. - Kolesnikov, N. N. - Borisenko, D. N.: Induced non-metallicity during resistive switching in structures based on a topological insulator Bi<sub>2</sub>Se<sub>3</sub>. In: Physics Letters A, Vol. 376, No. 45, 2012, s. 3398-3401 - SCI ; SCOPUS  
[o1] 2013 Tulina, N. A. - Borisenko, I. Y. - Sirotkin, V. V.: Bipolar resistive switchings in Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+delta</sub>. In: Solid State Communications, Vol. 170, 2013, s. 48-52 - SCI ; SCOPUS
- ADC10 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Seidel, Paul: Origin of linear backround measured on YBaCuU-Au point contact junctions  
In: Czechoslovak Journal of Physics. - Vol. 46, Suppl. 3 (1996), s. 1333-1334  
[Low Temperature Physics 1996 : International Conference. 21st, Prague, 8.-14.8.1996]  
*Indikátor časopisu:*  
IF (JCR) 1996=0,339
- ADC11 Seidel, Paul - Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Hlubina, Richard [UKOMFKEF]: Superconducting parameters of YBCO and BSCCO from "tunneling" spectroscopy  
In: Physica B - Condensed Matter. - Vol. 218, No. 1-4 (1996), s. 224-227  
[Point-contact Spectroscopy 1995 : International Conference. 2nd, Nijmegen, 7.-10.6.1995]  
*Indikátor časopisu:*  
IF (JCR) 1996=0,864  
*Ohlasy (5):*  
[o1] 1997 Nakamae, S. C. - Schwartz, J.: Magnetothermal conductivity of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>x</sub> bulk superconductor in high magnetic fields. In: Journal of Applied Physics, Vol. 81, No. 8, Part 2B, 1997, s. 4931-4933 - SCI ; SCOPUS  
[o1] 1997 Nakamae, S. C. - Schwartz, J.: Thermal conductivity of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>x</sub> superconductors in high magnetic fields. In: IEEE Transactions on Applied Superconductivity, Vol. 7, No. 2, 1997, s. 1699-1702 - SCI ; SCOPUS

- [o1] 2003 Kirtley, J. R. - Tsuei, C. C. - Kogan, V. G. - Clem, J. R. - Raffy, H. - Li, Z. Z.: Fluxoid dynamics in superconducting thin film rings. In: Physical Review B, Vol. 68, No. 21, 2003, Art. No. 214505 - SCI ; SCOPUS
- [o1] 2009 De La Pierre, M. - Cagliero, S. - Agostino, A. - Gazzadi, G. C. - Truccato, M.: Size-dependent resistivity in a micro-processed YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> superconducting whisker. In: Superconductor Science and Technology, Vol. 22, No. 4, 2009, Art. No. 045011 - SCI ; SCOPUS
- [o1] 2012 Wordenweber, R. - Hollmann, E. - Schubert, J. - Kutzner, R. - Panaitov, G.: Regimes of flux transport at microwave frequencies in nanostructured high-T<sub>c</sub> films. In: Physical Review B - Condensed Matter and Materials Physics, Vol. 85, No. 6, 2012, Art. No. 064503 - SCOPUS
- ADC12 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Seidel, Paul - Vojtanik, Viktor - Kúš, Peter [UKOMFKEF] - Barholz, Kai-Uv: The influence of external bias voltage on electrical properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> metal point contact interface  
In: Journal of Low Temperature Physics. - Vol. 106, No. 3-4 (1997), s. 277-283  
[WSS 1996 : Weak Superconductivity Symposium : International Symposium. Smolenice, 4.-7.8.1996]  
*Indikátor časopisu:*  
IF (JCR) 1997=0,98  
*Ohlasy (1):*  
[o1] 1999 Akimenko, A. I. - Aoki, R. - Murakami, H. - Gudimenko, V. A.: Break-junction tunneling spectra of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+δ</sub> single crystals with temperature change. In: Physica C, Vol. 319, No. 1, 1999, s. 59-72 - SCI ; SCOPUS
- ADC13 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Seidel, Paul - Kúš, Peter [UKOMFKEF]: The influence of bias voltage on YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>/ metal point contact interface  
In: Journal of Alloys and Compounds. - Vol. 251, No. 1-2 (1997), s. 129-133  
[HTS 1996 : High Temperature Superconductor Thin Films 1996 : Growth Mechanisms - Interfaces - Multilayers : Symposium F. Strassbourg, 4.-7.6.1996]  
*Indikátor časopisu:*  
IF (JCR) 1997=1,035
- ADC14 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Seidel, Paul - Vojtanik, Viktor - Barholz, Kai-Uv: Asymmetry and quasilinear background of differential conductance characteristic of high-T<sub>c</sub>-superconductor/metal tunnel junctions  
In: Physical Review B - Condensed Matter. - Vol. 55, No. 14 (1997), s. 11738-11745  
*Indikátor časopisu:*  
IF (JCR) 1997=1,479  
*Ohlasy (6):*  
[o1] 1999 Hlubina, R.: Is the in-plane charge transport in the normal state of the cuprates anisotropic. In: Physica C, Vol. 319, No. 3-4, 1999, s. 159-163 - SCI ; SCOPUS  
[o1] 2003 Halbritter, J.: A review of weak/strong links and junctions in high-T<sub>c</sub> superconductors as a transition to a Mott insulator. In: Superconductor Science & Technology, Vol. 16, No. 10, 2003, s. R47-R69 - SCI ; SCOPUS  
[o1] 2003 Khachaturov, A. I.: Influence of zero-point anomalies in the electron density of states of electrodes on the inelastic tunneling spectrum. In: JETP Letters, Vol. 78, No. 9, 2003, s. 548-550 - SCI ; SCOPUS  
[o1] 2004 Urazhdin, S. - Neils, W. K. - Tessmer, S. H. - Birge, N. O. - Van Harlingen, D. J.: Modifying the surface electronic properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> with cryogenic scanning probe microscopy. In: Superconductor Science & Technology, Vol. 17, No. 1, 2004, s. 88-92 - SCI ; SCOPUS  
[o1] 2007 Schuster, C. - Schwingenschlogl, U.: Geometry dependence of the charge transfer at YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-metal interfaces. In: Journal of Applied Physics, Vol. 102, No. 11, 2007, Art. No. 113720 - SCI ; SCOPUS  
[o1] 2008 Schwingenschlogl, U. - Schuster, C.: Electronic structure calculations for inhomogeneous systems: Interfaces, surfaces, and nanocontacts. In: Annalen der Physik, Vol. 17, No. 8, 2008, s. 525-560 - SCI
- ADC15 Seidel, Paul - Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Belogolovskii, Mikhail A. - Barholz, Kai-Uv - Matthes, Andreas: Peculiarities of 'tunneling' characteristics observed in HTS/metal point contact junctions  
Lit. 10 zázň.

In: Physica C - Superconductivity and its Applications. - Vol. 282-287, Part 3 (1997), s. 1481-1482  
[Materials and Mechanisms of Superconductivity 1997 : High Temperature Superconductors : International Conference. 5th, Beijing, 28.2.-4.3.1997]

*Indikátor časopisu:*

IF (JCR) 1997=2,199

*Ohlasy (1):*

[o1] 2002 Gabovich, A. M. - Voitenko, A. I. - Ausloos, M.: Charge- and spin-density waves in existing superconductors: competition between Cooper pairing and Peierls or excitonic instabilities. In: Physics Reports, Vol. 367, No. 6, 2002, s.583-709 - SCI

ADC16 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Seidel, Paul - Takács, Silvester - Matthes, Andreas - Zuzčák, Márius - Beňačka, Štefan: Influence of bias voltage history on conductance properties of YBaCuO/normal metal junctions

In: Physica C - Superconductivity and its Applications. - Vol. 301, No. 3-4 (1998), s. 234-242

*Indikátor časopisu:*

IF (JCR) 1998=1,086

*Ohlasy (14):*

[o1] 1999 Akimenko, A. I. - Aoki, R. - Murakami, H. - Gudimenko, V. A.: Break-junction tunneling spectra of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub>+delta single crystals with temperature change. In: Physica C-Superconductivity and its Applications, Vol. 319, No. 1-2,1999, s. 59-72 - SCI ; SCOPUS

[o1] 2000 Hatta, E. - Svistunov, V. M. - Revenko, J. F. - Belogolovskii, M. A. - Doroshenko, N. A. - Plitnik, G.: Anomalous temperature effect on point-contact Ag-LaBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> conductance spectra. In: Modern Physics Letters B, Vol. 14, No.22-23, 2000, s. 819-825 - SCI ; SCOPUS

[o1] 2000 Stepurenko, J. I. - Shaternik, V. E. - Rudenko, E. M.: Stimulation of superconductivity in CrCr<sub>2</sub>O<sub>3</sub>-Pb junction. In: Metallofizika i Noveishie Tekhnologii, Vol. 22, No. 8, 2000, s. 6-11 - SCI

[o1] 2000 Stepurenko, J. I. - Shaternik, V. E. - Rudenko, E. M.: Inelastic effects in Cr-Cr<sub>2</sub>O<sub>3</sub>-Pb-Sn<sub>x</sub>O<sub>y</sub>-Pb double tunnel structures. In: Low Temperature Physics, Vol. 26, No. 7, 2000, s. 467-470 - SCI ; SCOPUS

[o1] 2001 Shaternik, V. Y. - Ivanitskii, V. A. - Rudenko, V. M.: Inelastic effects in tunnelling junctions based on the high- T-c superconductors. In: Metallofizika i Noveishie Tekhnologii, Vol. 23, No. 6, 2001, s. 755-766 - SCI

[o1] 2001 Shaternik, V. Y. - Stepurenko, Y. I. - Rudenko, V. M. - Belogolovs'ky, M. O.: Inelastic tunnelling in the thin film junctions with chromium oxide. In: Metallofizika i Noveishie Tekhnologii, Vol. 23, No. 5, 2001, s. 591-596 - SCI

[o1] 2002 Belogolovskii, M. A. - Revenko, Y. F. - Gerasimenko, A. I. - Svistunov, V. M. - Hatta, E. - Plitnik, G. - Shaternik, V. E. - Rudenko, E. M.: Inelastic electron tunneling across magnetically active interfaces in cuprate and manganiteheterostructures modified by electromigration processes. In: Low Temperature Physics, Vol. 28, No. 6, 2002, s. 391-394 - SCI ; SCOPUS

[o1] 2003 Belogolovskii, M. A.: Phase-breaking effects in superconducting heterostructures. In: Physical Review B, Vol. 67, No. 10, 2003, Art No. 100503 - SCI ; SCOPUS

[o1] 2003 Halbritter, J.: A review of weak/strong links and junctions in high-T-c superconductors as a transition to a Mott insulator. In: Superconductor Science & Technology, Vol. 16, No. 10, 2003, s. R47-R69 - SCI ; SCOPUS

[o1] 2004 Urazhdin, S. - Neils, W. K. - Tessmer, S. H. - Birge, N. O. - Van Harlingen, D. J.: Modifying the surface electronic properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta with cryogenic scanning probe microscopy. In: Superconductor Science & Technology, Vol.17, No. 1, 2004, s. 88-92 - SCI ; SCOPUS

[o1] 2005 Shaternik, V.: Superconducting tunnel junctions with inelastic processes in barriers. In: Innovative Superhard Materials and Sustainable Coatings for Advanced Manufacturing : NATO Science Series 2, Vol. 2000. Dordrecht : Springer,2005, S. 345-355 - CPCI-S

[o1] 2008 Svistunov, V. M. - Leonova, V. N. - Belogolovskii, M. A. - Medvedev, Y. V. - Revenko, Y. F. - Strzhemechny, Y. M. - Hui, D. - Endo, T.: Tunneling spectroscopy of manganites with nanoscale structural non-uniformities. In: ModernPhysics Letters B, Vol. 22, No. 29, 2008, s. 2811-2819 - SCI ; SCOPUS

[o1] 2009 Belogolovskii, M. A.: Interface resistive switching effects in bulk manganites. In: Central European Journal of Physics, Vol. 7, No. 2, 2009, s. 304-309 - SCI ; SCOPUS

[o1] 2012 Motzkau, H. - Jacobs, T. - Katterwe, S. O. - Rydh, A. - Krasnov, V. M.: Persistent electrical doping of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+x</sub> mesa structures. In: Physical Review B - Condensed Matter and Materials Physics, Vol. 85, No. 14, 2012, Art.No. 144519 - SCOPUS

- ADC17 Seidel, Paul - Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF]: Tunneling and point contact spectroscopy of the high-T<sub>c</sub> superconducting thin films  
 In: Acta Physica Polonica A. - Vol. 93, No. 2 (1998), s. 355-363  
*Indikátor časopisu:*  
 IF (JCR) 1998=0,344  
*Ohlasy (3):*  
 [o1] 1999 Susla, B. - Kaminski, M. - Sadowski, W.: Tunneling measurements in cuprate superconductors. In: Single Crystal Growth, Characterization, and Applications : Proceedings of the SPIE, Vol. 3724. Bellingham : SPIE, 1999, S. 314-317 -CPCI-S  
 [o1] 2001 Susla, B. - Bode, M. - Veal, B. V. - Kaminski, M. - Sadowski, W.: Nanostructural investigations of layered compounds by scanning probe methods. In: High Temperature Superconductivity : Molecular Physics Reports, Vol. 34, No. 1. Poznań : PAS, 2001, S. 148-152 - CPCI-S  
 [o1] 2002 Susla, B. - Czajka, R. - Szuba, S. - Kaminski, M. - Hihara, T. - Kasuya, A. - Sumiyama, K.: Scanning tunneling microscopy/spectroscopy of ferromagnetic Ni clusters on graphite and BSCCO high-T-c superconductor. In: Colloids and Surfaces A, Vol. 202, No. 2-3, 2002, s. 187-193 - SCI ; SCOPUS
- ADC18 Belogolovskii, Mikhail A. - Grajcar, Miroslav [UKOMFKEF] - Kúš, Peter [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Beňačka, Štefan - Seidel, Paul: Phase-coherent charge transport in superconducting heterocontacts  
 In: Physical Review B. - Vol. 59, No. 14 (1999), s. 9617-9626  
*Indikátor časopisu:*  
 IF (JCR) 1999=3,008  
*Ohlasy (21):*  
 [o1] 1999 Hu, C. R.: Update on the numerous novel consequences of the midgap states in unconventional high-T-c superconductors. In: International Journal of Modern Physics B, Vol. 13, No. 29-31, 1999, s. 3519-3524 - SCI ; SCOPUS  
 [o1] 2000 Kashiwaya, S. - Tanaka, Y.: Tunneling effects on surface bound states in unconventional superconductors. In: Reports on Progress in Physics, Vol. 63, No. 10, 2000, s. 1641-1724 - SCI ; SCOPUS  
 [o1] 2001 Devyatov, I. A. - Goncharov, D. V. - Kupriyanov, M. Y.: The theory of tunneling in normal metal/d-type superconductor 2D-Structures. In: Journal of Experimental and Theoretical Physics, Vol. 92, No. 4, 2001, s. 652-654 - SCI ; SCOPUS  
 [o1] 2001 Kashiwaya, H. - Sawa, A. - Kashiwaya, S. - Yamasaki, H. - Koyanagi, A. - Kurosawa, I. - Tanaka, Y. - Iguchi, I.: Size dependence and mesoscopic effect of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub>/La<sub>0.67</sub>Sr<sub>0.33</sub>MnO<sub>3</sub> junctions. In: Physica C, Vol. 357, Part 2, 2001, s. 1610-1613 - SCI  
 [o1] 2001 Devyatov, I. A. - Goncharov, D. V. - Kupriyanov, M. Y.: Current transport in two-dimensional HTS NID junctions. In: Physica C, Vol. 350, No. 3-4, 2001, s. 249-260 - SCI ; SCOPUS  
 [o1] 2002 Askerzade, I. N. - Tanatar, B.: Effect of superconductivity-magnetism interaction on the differential conductivity in Ho(NiB)<sub>2</sub>C/Ag point contacts. In: Technical Physics, Vol. 47, No. 8, 2002, s. 1061-1063 - SCI ; SCOPUS  
 [o1] 2002 Hahn, A. - Hofmann, S. - Humpfer, K. - Schatz, M.: Hot spots in superconducting tantalum. In: Physical Review B, Vol. 65, No. 22, 2002, Art. No. 224503 - SCI ; SCOPUS  
 [o1] 2002 Kashiwaya, H. - Sawa, A. - Kashiwaya, S. - Kurosawa, I. - Tsuchiura, H. - Tanaka, Y.: Mesoscopic effect observed in strong correlated electron materials. In: Physica C, Vol. 378, Part 1, 2002, s. 364-367 - SCI ; SCOPUS  
 [o1] 2002 Kuznetsov, G. V.: Charge carrier transport through the contact of metal with a superconducting semiconductor. In: Semiconductors, Vol. 36, No. 9, 2002, s. 1001-1007 - SCI ; SCOPUS  
 [o1] 2002 Shlapak, Y. V. - Shaternik, V. Y. - Noskov V. L. - Rudenko, E. M.: One-particle proximity effect. In: Metallofizika i Noveishie Tekhnologii, Vol. 24, No. 12, 2002, s. 1625-1637 - SCI  
 [o1] 2003 Askerzade, I. N. - Kulik, I. O.: Point normal metal-superconductor (NS) contact in nonballistic regime. In: Modern Physics Letters B, Vol. 17, No. 10-12, 2003, s. 649-655 - SCI ; SCOPUS  
 [o1] 2003 Askerzade, I. N.: Current-voltage characteristics of nanodimensional normal metal-superconductor point diffusion junctions. In: Technical Physics Letters, Vol. 29, No. 11, 2003, s. 913-916 - SCI ; SCOPUS  
 [o1] 2004 Asano, Y. - Tanaka, Y. - Kashiwaya, S.: Phenomenological theory of zero-energy Andreev resonant states. In: Physical Review B, Vol. 69, No. 13, 2004, Art. No. 134501 - SCI ; SCOPUS

- [o1] 2003 Kashiwaya, H. - Kurosawa, I. - Kashiwaya, S. - Sawa, A. - Tanaka, Y.: Observation of phase-coherent transport in d-wave junctions. In: Physical Review B, Vol. 68, No. 5, 2003, Art. No. 054527 - SCI ; SCOPUS
- [o1] 2005 Benjamin, C.: Resolving the order parameter of high-T-c superconductors through quantum pumping spectroscopy. In: Physical Review B, Vol. 71, No. 17, 2005, s Art. No. 174512 - SCI ; SCOPUS
- [o1] 2005 Larkin, S. Y. - Shaternik, V. Y.: Asymmetric duo-barrier tunnel transitions on the basis of niobium nitride. In: Radioelectronics and Communications Systems, Vol. 48, No. 5-6, 2005, s. 12-15 - SCI ; SCOPUS
- [o1] 2006 Shaternik, V. E. - Larkin, S. Y. - Khachaturova, T. A.: Niobium nitride Josephson junctions: Experiment and computer simulations. In: Physica C-Superconductivity and its Applications, Vol. 435, No. 1-2, 2006, s. 96-98 - SCI ; SCOPUS
- [o1] 2006 Wan, L. H. - Wei, Y. D. - Wang, J.: Shot noise in a superconducting hybrid molecular device. In: Nanotechnology, Vol. 7, No. 2, 2006, s. 489-495 - SCI ; SCOPUS
- [o1] 2007 Abal'oshev, A. - Abal'osheva, I. - Gierlowski, P. - Lewandowski, S. J. - Konczykowski, M. - Rizza, G. - Chromik, S.: Effect of pulsed UV laser irradiation on the properties of crystalline YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta thin films. In: Superconductor Science & Technology, Vol. 20, No. 5, 2007, s. 433-440 - SCI ; SCOPUS
- [o1] 2007 Sidorov, S. L. - Tarenkov, V. Yu. - D'yachenko, A. I. - Khachaturova, T. A.: Excess current in contacts based on magnesium diboride. In: Physics of the Solid State, Vol. 49, No. 5, 2007, s. 807-811 - SCI ; SCOPUS
- [o1] 2012 Shaternik, V. E. - Shapovalov, A. P. - Bloschit-Skiy, P. - Zhabko, D. S. - Kudrya, E. V. - Prokopenko, A. V. - Kuznetsov, R. A.: Charge transport in Josephson heterojunctions with inhomogeneous distribution of weak boundtransparency. In: Metallofizika I Noveishie Tekhnologii, Vol. 34, No. 2, 2012, s. 275-282 - SCI ; SCOPUS

ADC19 Gilabert, Alain - Grajcar, Miroslav [UKOMFKEF] - Karlovský, Kamil - Plecenik, Andrej [UKOMFKEF] - Dittman Regina - Medici, Maria Gabriel: Influence of illumination on the properties of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+y</sub> bicrystal grain boundary junction

Lit. 15 zázň., 4 obr.

In: Applied Physics Letters. - Vol. 74, No. 25 (1999), s. 3869-3871

*Indikátor časopisu:*

IF (JCR) 1999=4,184

*Ohlasy (4):*

[o1] 2001 Backstrom, J.: Raman scattering and neutron diffraction studies of manganites and cuprates.

Goteborg : Chalmers University of Technology, 2001, s. 1-67 . - SCOPUS

[o1] 2005 Shivagan, D. D. - Shirage, P. M. - Pawar, S. H. - Seth, T. - Amalnerkar, D. P.: Annealing and photoinduced effects in electrochemically synthesized Hg-1212 films. In: International Journal of Modern Physics B, Vol. 19, No. 27, 2005, s. 4021-4046 - SCI ; SCOPUS

[o1] 2011 Raffy, H.: BSCCO high-Tc superconducting films. In: High-Temperature Superconductors : Woodhead Publishing in Materials. Cambridge : Elsevier., 2011, S. 174-207 - BKCI-S ; SCOPUS

[o1] 2012 Truccato, M. - Imbraguglio, D. - Agostino, A. - Cagliero, S. - Pagliero, A. - Motzkau, H. - Rydh, A.: Photoconductivity effects in mixed-phase BSCCO whiskers. In: Superconductor Science & Technology, Vol. 25, No. 10, 2012, Art. No.105010 - SCI ; SCOPUS

ADC20 Il'ichev, Evgeni - Zakosarenko, V. - Ijsselsteijn, R. P. J. - Hoenig, H. E. - Schultze, V. - Meyer, Hans-Georg - Grajcar, Miroslav [UKOMFKEF] - Hlubina, Richard [UKOMFKEF]: Anomalous periodicity of the current-phase relationship of grain-boundary Josephson junctions in high-Tc superconductors

In: Physical Review B. - Vol. 60, No. 5 (1999), s. 3096-3099

URL: [http://arxiv.org/PS\\_cache/cond-mat/pdf/9811/9811017.pdf](http://arxiv.org/PS_cache/cond-mat/pdf/9811/9811017.pdf)

*Indikátor časopisu:*

IF (JCR) 1999=3,008

POZNÁMKA:

Vyšlo aj - arXiv.org: Condensed Matter. - No. cond-mat/9811017 (1998), 4 s.

*Ohlasy (54):*

[o1] 1999 Ioffe, L. B. - Geshkenbein, V. B. - Feigel'man, M. V. - Fauchere, A. L. - Blatter, G.:

Environmentally decoupled sds-wave Josephson junctions for quantum computing. In: Nature, Vol. 398, No. 6729, 1999, s. 679-681 - SCI

- [o1] 2000 Kashiwaya, S. - Tanaka, Y.: Tunelling effects on surface bound states in unconventional superconductors. In: Reports on Progress in Physics, Vol. 63, No. 10, 2000, s. 1641-1724 - SCI ; SCOPUS
- [o1] 2000 Radovic, Z. - Dobrosavljevic-Grujic, L. J. - Vujicic, B.: Spontaneous currents in superconductor-ferromagnet devices. In: Superconducting and Related Oxides : Proceedings of SPIE, Vol. 4058. Bellingham : SPIE, 2000, S. 85-96 - SCI
- [o1] 2000 Tafuri, F. - Carillo, F. - Lombardi, F. - Granozio, F. M. - Ricci, F. - di Uccio, U. S. - Barone, A. - Testa, G. - Sarnelli, E. - Kirtley, J. R.: Feasibility of biepitaxial YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Josephson junctions for fundamental studies and potential circuit implementation. In: Physical Review B, Vol. 62, No. 21, 2000, s. 14431-14438 - SCI ; SCOPUS
- [o1] 2000 Wendin, G. - Lofwander, T. - Shumeiko, V. S.: Andreev reflection and superconducting bound states in high-T<sub>c</sub> junctions. In: Superconducting and Related Oxides : Proceedings of SPIE, Vol. 4058. Bellingham : SPIE, 2000, S. 85-96 - SCI
- [o1] 2001 Barash, Y. S. - Bobkov, A. M.: S-N-D corner junctions in magnetic field. In: JETP Letters, Vol. 73, No. 8, 2001, s. 420-424 - SCI ; SCOPUS
- [o1] 2001 Kobayashi, H. - Imaizumi, T. - Iguchi, I. - Tanaka, Y. - Kashiwaya, S.: Angle-dependent Josephson current in high-T<sub>c</sub> YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta ramp-edge junctions. In: Physica C, Vol. 357, Part 2, 2001, s. 1567-1571 Part 2 - SCI ; SCOPUS
- [o1] 2001 Lofwander, T. - Shumeiko, V. S. - Wendin, G.: Andreev bound states in high-T<sub>c</sub> superconducting junctions. In: Superconductor Science & Technology, Vol. 14, No. 5, 2001, s. R53-R77 - SCI ; SCOPUS
- [o1] 2001 Radovic, Z. - Dobrosavljevic-Grujic, L. - Vujicic, B.: Coexistence of stable and metastable 0 and pi states in Josephson junctions. In: Physical Review B, Vol. 63, No. 21, 2001, Art. No. 214512 - SCI ; SCOPUS
- [o1] 2001 Rose, G. - Smirnov, A. Y.: Effects of nuclear spins on the coherent evolution of a phase qubit. In: Journal of Physics-Condensed Matter, Vol. 13, No. 48, 2001, s. 11027-11039 - SCI ; SCOPUS
- [o1] 2001 Shirai, S. - Tsuchiura, H. - Tanaka, Y. - Inoue, J. - Kashiwaya, S.: Effects of interface roughness on d-wave Josephson junctions. In: Physica C, Vol. 357, Part 2, 2001, s. 1584-1587 - SCI ; SCOPUS
- [o1] 2001 Tanaka, Y. - Kashiwaya, S.: Andreev bound state and charge transport in unconventional superconductors. In: Physica C, Vol. 352, No. 1-4, 2001, s. 30-36 - SCI ; SCOPUS
- [o1] 2001 Tsuchiura, H. - Tanaka, Y. - Ogata, M. - Kashiwaya, S.: Lattice model calculations for d(x<sup>2</sup>-y<sup>2</sup>)-wave Josephson junctions. In: Physica C, Vol. 352, No. 1-4, 2001, s. 165-168 - SCI ; SCOPUS
- [o1] 2001 Zhang, W. Y. - Wang, Z. D.: Order parameters and current-phase relations in He-3-B Josephson junctions through a porous layer. In: Physical Review B, Vol. 64, No. 21, 2001, Art. No. 214501 - SCI ; SCOPUS
- [o1] 2002 Amin, M. H. S. - Coury, M. - Rose, G.: High temperature pi/2-SQUID. In: IEEE Transactions on Applied Superconductivity, Vol. 12, No. 4, 2002, s. 1877-1879 - SCI ; SCOPUS
- [o1] 2002 Barone, A. - Kirtley, J. R. - Tafuri, F. - Tsuei, C. C.: Consequences of unconventional order parameter symmetry-high critical temperature structures-. In: Physica Scripta, Vol. 102, 2002, s. 51-58 - SCI ; SCOPUS
- [o1] 2002 Hilgenkamp, H. - Mannhart, J.: Grain boundaries in high-T<sub>c</sub> superconductors. In: Reviews of Modern Physics, Vol. 74, No. 2, 2002, s. 485-549 - SCI
- [o1] 2002 Komissinski, P. V. - Ovsyannikov, G. A. - Kisilinskii, Y. V. - Kotelyanskii, I. M. - Ivanov, Z. G.: Andreev states and the Josephson effect in superconducting heterojunctions on thin YBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> films. In: Journal of Experimental and Theoretical Physics, Vol. 95, No. 6, 2002, s. 1074-1084 - SCI ; SCOPUS
- [o1] 2002 Mozhaev, P. B. - Borisenko, I. V. - Ovsyannikova, E. G. - Ovsyannikov, G. A.: High-temperature superconducting bi-crystal Josephson junctions with asymmetric current biasing: the DC-SQUID configuration. In: Physica C, Vol. 372, Part 1, 2002, s. 150-153 - SCI ; SCOPUS
- [o1] 2002 Tafuri, F. - Lombardi, F. - Miletto Granozio, F. - Carillo, F. - Ricci, F. - Scotti Di Uccio, U. - Barone, A. - Kirtley, J. R.: An example of how an unconventional order parameter symmetry may open new perspectives in the design of HTS Josephson junctions. In: Superconducting and Related Oxides : Proceedings of SPIE, Vol. 4811. Bellingham : SPIE, 2002, S. 228-235 - SCI ; SCOPUS
- [o1] 2002 Zhang, W. Y. - Wang, Z. D.: Interface roughness and proximity effect on a c-axis Josephson junction between s-wave and d-wave superconductors. In: Physical Review B, Vol. 65, No. 14, 2002, Art. No. 144527 - SCI ; SCOPUS
- [o1] 2003 Lindstrom, T. - Charlebois, S. A. - Tzalenchuk, A. Y. - Ivanov, Z. - Amin, M. H. S. - Zagoskin, A. M.: Dynamical effects of an unconventional current-phase relation in YBCO dc SQUIDS. In: Physical Review Letters, Vol. 90, No. 11, 2003, Art. No. 117002 - SCI ; SCOPUS



- [o1] 2003 Luck, T. - Schwab, P. - Eckern, U. - Shelankov, A.: Disordered Josephson junctions of d-wave superconductors. In: Physical Review B, Vol. 68, No. 17, 2003, Art. No. 174524 - SCI ; SCOPUS
- [o1] 2003 Shirai, S. - Tsuchiura, H. - Tanaka, Y. - Inoue, J. - Kashiwaya, S.: Temperature dependence of the Josephson current in the d-wave superconductor junction based on the 2-D extended Hubbard model. In: Journal of Low Temperature Physics, Vol. 131, No. 3-4, 2003, s. 503-507 - SCI ; SCOPUS
- [o1] 2003 Shirai, S. - Tsuchiura, H. - Tanaka, Y. - Inoue, J. - Kashiwaya, S.: Temperature dependence of Josephson current in d-wave superconductor. In: Towards the Controllable Quantum States. Singapore : World Scientific, 2003, S. 223-228 -SCI
- [o1] 2003 Tafuri, F. - Kirtley, J. R. - Lombardi, F. - Granozio, F. M.: Intrinsic and extrinsic d-wave effects in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta grain boundary Josephson junctions: Implications for pi circuitry. In: Physical Review B, Vol. 67, No. 17, 2003, Art. No. 174516 - SCI ; SCOPUS
- [o1] 2003 Wang, Z. X. - Zhang, W. Y. - Wang, Z. D.: Order parameter and current-phase relation in Josephson junctions composed of g+s-wave superconductors. In: Physical Review B, Vol. 68, No. 18, 2003, Art. No. 184516 - SCI ; SCOPUS
- [o1] 2004 Barone, A. - Lombardi, F. - Monaco, A. - Sarnelli, E. - Tafuri, F. - Testa, G.: Effects of d-wave symmetry in high-T-c grain boundary Josephson junctions. In: Physica Status Solidi B, Vol. 241, No. 6, 2004, s. 1192-1198 - SCI ; SCOPUS
- [o1] 2004 Gardiner, C. H. - Lee, R. A. M. - Gallop, J. C. - Tzalenchuk, A. Y. - Macfarlane, J. C. Hao, L.: Degenerate ground state and anomalous flux hysteresis in an YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> grain boundary rf SQUID. In: Superconductor Science & Technology, Vol. 17, No. 5 Sp. Iss., 2004, s. S234-S240 - SCI ; SCOPUS
- [o1] 2004 Schneider, C. W. - Hammerl, G. - Logvenov, G. - Kopp, T. - Kirtley, J. R. - Hirschfeld, P. J. - Mannhart, J.: Half-h/2e critical current - Oscillations of SQUIDS. In: Europhysics Letters, Vol. 68, No. 1, 2004, s. 86-92 - SCI ; SCOPUS
- [o1] 2004 Tafuri, F. - Kirtley, J. R. - Lombardi, F. - Bauch, T. - Barone, A.: Vortex matter in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-(delta) grain boundary Josephson junctions: intrinsic and extrinsic d-wave effects for pi-circuitry. In: Physica C, Vol. 404, No. 1-4, 2004, s. 367-374 - SCI ; SCOPUS
- [o1] 2004 Tafuri, F. - Kirtley, J. R. - Lombardi, F. - Medaglia, P. G. - Orgiani, P. - Balestrino, G.: Advances in high-T-c grain-boundary junctions. In: Low Temperature Physics, Vol. 30, No. 7-8, 2004, s. 591-598 - SCI ; SCOPUS
- [o1] 2005 Aligia, A. A. - Kampf, A. P. - Mannhart, J.: Quartet formation at (100)/(110) interfaces of d-wave superconductors. In: Physical Review Letters, Vol. 94, No. 24, 2005, Art. No. 247004 - SCI ; SCOPUS
- [o1] 2005 Tafuri, F. - Kirtley, J. R.: Weak links in high critical temperature superconductors. In: Reports on Progress in Physics, Vol. 68, No. 11, 2005, s. 2573-2663 - SCOPUS
- [o1] 2006 Bobkov, A. M.: Discrete-lattice model approach to the tunneling between d-wave superconductors: Interference of tunnel bonds. In: JETP Letters, Vol. 83, No. 3, 2006, s. 98-102 - SCI ; SCOPUS
- [o1] 2006 Claeson, T. - Lombardi, F. - Bauch, T. - Lindstrom, T. - Delsing, P. - Barone, A. - Tafuri, F. - Rotoli, G.: Macroscopic quantum phenomena in high critical temperature superconducting Josephson junctions. In: Journal of Superconductivity and Novel Magnetism, Vol. 19, No. 3-5, 2006, s. 341-347 - SCOPUS
- [o1] 2006 Lindstrom, T. - Johansson, J. - Bauch, T. - Stepantsov, E. - Lombardi, F. - Charlebois, S. A.: Josephson dynamics of bicrystal d-wave YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta dc-SQUIDS. In: Physical Review B, Vol. 74, No. 1, 2006, Art. No. 014503 - SCI ; SCOPUS
- [o1] 2006 Lombardi, F. - Bauch, T. - Johansson, J. - Cedergren, K. - Lindstrom, T. - Tafuri, F. - Stepantsov, E.: Quantum properties of d-wave YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta Josephson junction. In: Physica C, Vol. 435, No. 1-2, 2006, s. 8-11 - SCI ; SCOPUS
- [o1] 2006 Tafuri, F. - Lombardi, F. - Bauch, T. - Stornaiuolo, D. - Born, D. - Dalena, D. - Barone, A. - Rotoli, G. - Medaglia, P. G. - Orgiani, P. - Balestrino, G. - Kogan, V. - Kirtley, J. R.: Quantum behaviors in high-T-c systems: Macroscopic and vortex quantum tunneling. In: Physica C, Vol. 437-438, 2006, s. 303-308 - SCI ; SCOPUS
- [o1] 2007 Bauch, T. - Johansson, J. - Cedergren, K. - Lindstrom, T. - Lombardi, F.: YBCOSQUIDS with unconventional current phase relation. In: Physica C, Vol. 463-465, Suppl., 2007, s. 979-984 - SCI ; SCOPUS
- [o1] 2007 Polak, T. P. - Sarnelli, E.: Resonance phenomena in asymmetric superconducting quantum interference devices. In: Physical Review B, Vol. 76, No. 1, 2007, Art. No. 014531 - SCI ; SCOPUS
- [o1] 2007 Zikic, R. - Dobrosavljevic-Grujic, L.: Superharmonic Josephson relations in unconventional superconductor junctions with a ferromagnetic barrier. In: Physical Review B, Vol. 75, No. 10, 2007, Art. No. 100502 - SCI ; SCOPUS

- [o1] 2008 Braude, V. - Blanter, Y. M.: Triplet Josephson effect with magnetic feedback in a superconductor-ferromagnet heterostructure. In: Physical Review Letters, Vol. 100, No. 20, 2008, Art. No. 207001 - SCI ; SCOPUS
- [o1] 2008 Chesca, B. - Smilde, H. J. H. - Hilgenkamp, H.: Upper bound on the Andreev states induced second harmonic in the Josephson coupling of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7- $\delta$</sub> /Nb junctions from experiment and numerical simulations. In: Physical Review B, Vol. 77, No. 18, 2008, Art. No. 184510 - SCI ; SCOPUS
- [o1] 2008 Stornaiuolo, D. - Gambale, E. - Bauch, T. - Born, D. - Cedergren, K. - Dalena, D. - Barone, A. - Tagliacozzo, A. - Lombardi, F. - Tafuri, F.: Underlying physical aspects of fluctuations in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7- $\delta$</sub>  grain boundary Josephson junctions. In: Physica C, Vol. 468, No. 4, 2008, s. 310-315 - SCI ; SCOPUS
- [o1] 2009 Rashedi, G.: Effect of parallel transport currents on the d-wave Josephson junction. In: Journal of Physics Condensed Matter, Vol. 21, No. 7, 2009, Art. No. 075704 - SCI ; SCOPUS
- [o1] 2009 Zikic, R. - Dobrosavljevic-Grujic, L. - Vujcic, B.: Temperature-induced coexistence of integer, half-integer and quarter-integer fluxoid configurations in d-wave SQUIDs with a ferromagnetic junction. In: Superconductor Science & Technology, Vol. 22, No. 7, 2009, Art. No. 075022 - SCI ; SCOPUS
- [o1] 2010 Barone, A. - Lombardi, F. - Tafuri, F.: Frontiers problems of the Josephson effect: From macroscopic quantum phenomena decay to high-T-C superconductivity. In: Nanoscience and Engineering in Superconductivity : Nanoscience and Technology. Berlin : Springer-Verlag Berlin, 2010, S. 105-135 - BKCI-S
- [o1] 2010 Barone, A. - Lombardi, F. - Rotoli, G. - Tafuri, F.: Macroscopic quantum phenomena in Josephson structures. In: Low Temperature Physics, Vol. 36, No. 10-11, 2010, s. 876-883 - SCI ; SCOPUS
- [o1] 2010 Carbone, A. - Gilli, M. - Mazzetti, P. - Ponta, L.: Array of Josephson junctions with a nonsinusoidal current-phase relation as a model of the resistive transition of unconventional superconductors. In: Journal of Applied Physics, Vol. 108, No. 12, 2010, Art. No. 123916 - SCI ; SCOPUS
- [o1] 2012 Barash, Y. S.: Anharmonic Josephson current in junctions with an interface pair breaking. In: Physical Review B, Vol. 85, No. 10, 2012, Art. No. 100503 - SCI ; SCOPUS
- [o1] 2012 Barash, Y. S.: Probing interfacial pair breaking in tunnel junctions based on the first and the second harmonics of the Josephson current. In: Physical Review B, Vol. 85, No. 17, 2012, Art. No. 174529 - SCI ; SCOPUS
- [o1] 2012 Villegas, K. H. - Yanga, D. M.: Josephson tunneling current in spin polaron theory. In: Journal of Superconductivity and Novel Magnetism, Vol. 25, No. 6, 2012, s. 1873-1877 - SCI ; SCOPUS
- [o1] 2013 Tafuri, F. - Massarotti, D. - Galletti, L. - Stornaiuolo, D. - Montemurro, D. - Longobardi, L. - Lucignano, P. - Rotoli, G. - Pepe, G. P. - Tagliacozzo, A. - Lombardi, F.: Recent achievements on the physics of high-T C superconductor Josephson junctions: Background, perspectives and inspiration. In: Journal of Superconductivity and Novel Magnetism, Vol. 26, No. 1, 2013, s. 21-41 - SCI ; SCOPUS

ADC21 Belogolovskii, Mikhail A. - Grajcar, Miroslav [UKOMFKEF] - Seidel, Paul: Temperature-dependent transport characteristics of quasiballistic normal-metal-superconductor junctions  
In: Physical Review B. - Vol. 61, No. 5 (2000), s. 3259-3262

*Indikátor časopisu:*

IF (JCR) 2000=3,065

*Ohlasy (2):*

[o1] 2000 Kashiwaya, S. - Tanaka, Y.: Tunnelling effects on surface bound states in unconventional superconductors. In: Reports on Progress in Physics, Vol. 63, No. 10, 2000, s. 1641-1724 - SCI ; SCOPUS

[o1] 2002 Quirion, D. - Hoffmann, C. - Lefloch, F. - Sanquer, M.: Mesoscopic proximity effect in double-barrier superconductor/normal-metal junctions. In: Physical Review B, Vol. 65, No. 10, 2002, Art. No. 100508 - SCI ; SCOPUS

ADC22 Götz, M. - Grajcar, Miroslav [UKOMFKEF] - Khanin, V. V. - Zorin, A. B. - Niemeyer, J. - Meyer, Hans-Georg - Il'ichev, Evgeni: Supercurrent phase relation of an Nb/AIO<sub>x</sub>/Al/AIO<sub>x</sub>/Nb-based Josephson junction at the superconducting transition of the Alinterlayer  
In: Physical Review B. - Vol. 62, No. 22 (2000), s. R14645-R14648

*Indikátor časopisu:*

IF (JCR) 2000=3,065

*Ohlasy (3):*

[o1] 2001 Samuelsson, P.: Nonequilibrium effects in mesoscopic Josephson junctions: Introduction. In: Doktorsavhandlingar Vid Chalmers Tekniska Hogskola, No. 1692, 2001, s. 1-155 - SCOPUS

- [o1] 2004 Shafranjk, S. - Ketterson, J. B.: Optimization of the double-barrier Josephson junction switching dynamics. In: IEEE Transactions on Applied Superconductivity, Vol. 14, No. 1, 2004, s. 13-21 - SCOPUS
- [o1] 2011 Wetzstein, O. - Ortlepp, T. - Uhlmann, H. F. - Toepfer, H.: Experimental evaluation of the current-phase relation of a Josephson junction. In: COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, Vol. 30, No. 4, 2011, s. 1404-1415 - SCOPUS

ADC23 Hlubina, Richard [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Bezák, Viktor [UKOMFKEFs] - Guba, Peter [UKOMFKAMS] - Karlovský, Kamil: Screw dislocation-induced enhancement of the c-axis critical current in anisotropic superconductors  
In: Physica C - Superconductivity and its Applications. - Vol. 329, No. 1 (2000), s. 5-11  
*Indikátor časopisu:*  
IF (JCR) 2000=1,489

ADC24 Belogolovskii, Mikhail A. - Golubov, A. - Kupriyanov, M. Yu - Grajcar, Miroslav [UKOMFKEF] - Seidel, Paul: Charge transport across a mesoscopic superconductor-normal metal junction: coherence and decoherence effects  
In: Physica C - Superconductivity and its Applications. - Vol. 357, Part 2 (2001), s. 1592-1595  
*Indikátor časopisu:*  
IF (JCR) 2001=0,806

*Ohlasy (2):*

- [o1] 2004 Asano, Y. - Tanaka, Y. - Kashiwaya, S.: Phenomenological theory of zero-energy Andreev resonant states. In: Physical Review B, Vol. 69, No. 13, 2004, Art. No. 134501 - SCI ; SCOPUS
- [o1] 2014 Pasanai, K.: Multiband coupling effect on splitting of zero-bias conductance peak of (110) surface states in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7- $\delta$</sub> . In: Physica C-Superconductivity and Its Applications, Vol. 502, 2014, s. 53-57 - SCI ; SCOPUS

ADC25 Gilabert, Alain - Grajcar, Miroslav [UKOMFKEF] - Kúš, Peter [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Fröhlich, Karol - Gaži, Štefan - Mozolová, Želka - Machajdík, Daniel - Beňačka, Štefan - Medici, Maria Gabriel - Pripko, Mojmir: Photoinduced insulator-metal transition in La<sub>0.81</sub>MnO<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub>/Nb tunnel junctions  
Lit. 14 zázn., 4 obr.

In: Applied Physics Letters. - Vol. 78, No. 12 (2001), s. 1712-1714

*Indikátor časopisu:*

IF (JCR) 2001=3,849

*Ohlasy (13):*

- [o1] 2001 Tulina, N. A. - Zverkov, S. A. - Mukovskii, Y. M. - Shulyatev, D. A.: Current switching of resistive states in normal-metal manganite single-crystal point contacts. In: Europhysics Letters, Vol. 56, No. 6, 2001, s. 836-841 - SCI ; SCOPUS
- [o1] 2002 Li, H. Q. - Fang, Q. F. - Zhu, Z. G.: Preparation and colossal magnetoresistance in a trilayer La<sub>0.67</sub>Sr<sub>0.33</sub>MnO<sub>3</sub>/La<sub>0.75</sub>MnO<sub>3</sub>/La<sub>0.67</sub>Sr<sub>0.33</sub>MnO<sub>3</sub> device by dc magnetron sputtering. In: Materials Research Bulletin, Vol. 37, No. 5, 2002, s. 859-866 - SCI ; SCOPUS
- [o1] 2002 Singh, M. P. - Raghavan, G. - Tyagi, A. K. - Shivashankar, S. A.: Carbonaceous alumina films deposited by MOCVD from aluminium acetylacetonate: A spectroscopic ellipsometry study. In: Bulletin of Materials Science, Vol. 25, No. 2, 2002, s. 163-168 - SCOPUS
- [o1] 2002 Ziese, M.: Extrinsic magnetotransport phenomena in ferromagnetic oxides. In: Reports on Progress in Physics, Vol. 65, No. 2, 2002, s. 143-249 - SCI ; SCOPUS
- [o1] 2003 Roy, S. - Ali, N.: Photo-induced changes in magnetization of GdBaCo<sub>2</sub>O<sub>5+ $\delta$</sub> . In: Solid State Communications, Vol. 128, No. 2-3, 2003, s. 91-95 - SCI ; SCOPUS
- [o1] 2006 Dorr, K.: Ferromagnetic manganites: spin-polarized conduction versus competing interactions. In: Journal of Physics D-Applied Physics, Vol. 39, No. 7, 2006, s. R125-R150 - SCI ; SCOPUS
- [o1] 2006 Repras, K. - Laurinavicius, A. - Vaskevicius, R.-A. - Anisimovas, F. - Deksnys, A. - Vengalis, B.: Response of grained La<sub>0.67</sub>Ca<sub>0.33</sub>MnO<sub>3</sub> films to microwave radiation and the method for measuring electrical resistance of grains. In: Acta Physica Polonica A, Vol. 110, No. 4, 2006, s. 537-544 - SCI
- [o1] 2007 Yan, Z. J. - Yuan, X. - Xu, Y. B. - Gao, G. M. - Jin, K. X. - Chen, C. L.: Large transient photoconductivity with fast response in oxygen-deficient La<sub>0.6</sub>Ca<sub>0.4</sub>MnO<sub>3- $\delta$</sub> /Si heterojunctions. In: Journal of Physics D, Vol. 40, No. 9, 2007, s. 2797-2800 - SCI ; SCOPUS

- [o1] 2007 Yan, Z. J. - Yuan, X. - Xu, Y. B. - Gao, G. M. - Luo, B. C. - Jin, K. X. - Chen, C. L.: Photoinduced resistance change in an oxygen-deficient La<sub>0.9</sub>Sr<sub>0.1</sub>MnO<sub>3-δ</sub> thin film. In: Chinese Physics Letters, Vol. 24, No. 5, 2007, s.1397-1399 - SCI ; SCOPUS
- [o1] 2007 Yuan, X. - Yan, Z. J. - Xu, Y. B. - Gao, G. M. - Jin, K. X. - Chen, C. L.: Switching behavior of oxygen-deficient La<sub>0.6</sub>Ca<sub>0.4</sub>MnO<sub>3-δ</sub> thin films. In: Applied Physics Letters, Vol. 90, No. 22, 2007, Art. No. 224105 - SCI ; SCOPUS
- [o1] 2007 Yan, Z. J. - Yuan, X. - Xu, Y. B. - Liu, L. Q. - Zhang, X.: Photovoltaic effects in obliquely deposited oxygen-deficient manganite thin film. In: Applied Physics Letters, Vol. 91, No. 10, 2007, Art. No. 104101 - SCI ; SCOPUS
- [o1] 2011 Ni, H. - Yu, D. - Zhao, K. - Kong, Y. C. - Wong, H. K. - Zhao, S. Q. - Zhang, W. S.: Oxygen content dependence of the photovoltaic characteristic of miscut manganite thin films. In: Journal of Applied Physics, Vol. 110, No. 3, 2011, Art. No. 033112 - SCI
- [o1] 2011 Yu, D. - Ni, H. - Zhao, K. - Zhao, S. Q. - Da, S. L. - Zhang, W. S. - Yang, P. R. - Kong, Y. C. - Wong, H. K.: Effects of oxygen stoichiometry on the photovoltaic properties of La<sub>0.4</sub>Ca<sub>0.6</sub>MnO<sub>3-δ</sub> epitaxial films grown on miscut MgO substrates. In: Proceedings of 2011 International Conference on Electronic and Mechanical Engineering and Information Technology, Vol. 2, 2011, Art. No. 6023151 - SCOPUS

ADC26 Götz, Martin - Khanin, Vladimir V. - Schulze Holger - Grajcar, Miroslav [UKOMFKEF]: Current-phase relation in Nb-Al based SINIS-type Josephson junctions  
 In: IEEE Transactions on Applied Superconductivity. - Vol. 11, No. 1 (2001), s. 1142-1145  
*Indikátor časopisu:*  
 IF (JCR) 2001=1,278

ADC27 Il'ichev, Evgeni - Grajcar, Miroslav [UKOMFKEF] - Hlubina, Richard [UKOMFKEF] - Ijsselstein, R. P. J. - Hoenig, H. E. - Meyer, Hans-Georg - Golubov, A. - Amin, M. H. S. - Zagoskin, Alexandre M. - Omelyanchouk, A. N. - Kupriyanov, M. Yu: Degenerate ground state in a mesoscopic YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-X</sub> grain boundary Josephson junction  
 In: Physical Review Letters. - Vol. 86, No. 23 (2001), s. 5369-5372  
*Indikátor časopisu:*  
 IF (JCR) 2001=6,668  
*Ohlasy (108):*  
 [o1] 2001 Asano, Y.: Direct-current Josephson effect in SNS junctions of anisotropic superconductors. In: Physical Review B, Vol. 64, No. 22, 2001, Art. No. 224515 - SCI  
 [o1] 2001 Barash, Y. S. - Bobkov, A. M. - Fogelstrom, M.: Josephson current between chiral superconductors. In: Physical Review B, Vol. 64, No. 21, 2001, Art. No. 214503 - SCI ; SCOPUS  
 [o1] 2002 Asano, Y.: Symmetry of pair potential and Josephson effect in dirty SNS junctions. In: Physica C, Vol. 367, No. 1-4, 2002, s. 92-98 - SCI ; SCOPUS  
 [o1] 2002 Asano, Y.: A numerical study of dc Josephson effect in SNS junctions of d-wave superconductors. In: Physica C, Vol. 367, No. 1-4, 2002, s. 157-160 - SCI ; SCOPUS  
 [o1] 2002 Asano, Y.: Unconventional superconductivity and Josephson effect in superconductor/dirty normal metal/superconductor junctions. In: Journal of the Physical Society of Japan, Vol. 71, No. 3, 2002, s. 905-909 - SCI ; SCOPUS  
 [o1] 2002 Barone, A. - Kirtley, J. R. - Tafuri, F. - Tsuei, C. C.: Consequences of unconventional order parameter symmetry-high critical temperature structures. In: Physica Scripta T, Vol. 102, 2002, s. 51-58 - SCOPUS  
 [o1] 2002 Baselmans, J. J. A. - Heikkila, T. T. - van Wees, B. J. - Klapwijk, T. M.: Direct observation of the transition from the conventional superconducting state to the pi state in a controllable Josephson junction. In: Physical Review Letters, Vol. 89, No. 20, 2002, Art. No. 207002 - SCI ; SCOPUS  
 [o1] 2002 Hilgenkamp, H. - Mannhart, J.: Grain boundaries in high-T<sub>c</sub> superconductors. In: Reviews of Modern Physics, Vol. 74, No. 2, 2002, s. 485-549 - SCI  
 [o1] 2002 Itoh, H. - Tanaka, Y. - Tsuchiura, H. - Inoue, J. - Kashiwaya, S.: Tight-binding formulation of the electrical transport in mesoscopic system with unconventional superconductors. In: Physica C, Vol. 367, No. 1-4, 2002, s. 133-136 - SCI ; SCOPUS  
 [o1] 2002 Lofwander, T. - Shumeiko, V. S. - Wendin, G.: Properties of zero-energy surface states in d-wave superconducting junctions. In: Physica C, Vol. 368, No. 1-4, 2002, s. 255-260 - SCI ; SCOPUS

- [o1] 2002 Majer, J. B. - Butcher, J. R. - Mooij, J. E.: Simple phase bias for superconducting circuits. In: Applied Physics Letters, Vol. 80, No. 19, 2002, s. 3638-3640 - SCI
- [o1] 2002 Neils, W. K. - Van Harlingen, D. J. - Oh, S. - Eckstein, J. N. - Hammerl, G. - Mannhart, J. - Schmehl, A. - Schneider, C. W. - Schulz, R. R.: Probing unconventional superconducting symmetries using Josephson interferometry. In: Physica C, Vol. 368, No. 1-4, 2002, s. 261-266 - SCI ; SCOPUS
- [o1] 2002 Smilde, H. J. H. - Ariando - Blank, D. H. A. - Gerritsma, G. J. - Hilgenkamp, H. Rogalla, H.: d-wave-induced Josephson current counterflow in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>/Nb zigzag junctions. In: Physical Review Letters, Vol. 88, No. 5, 2002, Art. No.057004 - SCI ; SCOPUS
- [o1] 2002 Tafuri, F. - Lombardi, F. - Granozio, F. M. - Carillo, F. - Ricci, F. - di Uccio, U. S. - Barone, A. - Kirtley, J. R.: An example of how an unconventional order parameter symmetry may open new perspectives in the design of HTS Josephson junctions. In: Superconducting and Related Oxides : Proceedings of SPIE, Vol. 4811. Bellingham : SPIE, 2002, S. 228-235 - SCI
- [o1] 2002 Tanaka, Y. - Itoh, H. - Tsuchiura, H. - Tanuma, Y. - Inoue, J. - Kashiwaya, S.: Quasiparticle bound states near the interface of high-T<sub>c</sub> superconductors. In: Physica C, Vol. 367, No. 1-4, 2002, s. 73-78 - SCI ; SCOPUS
- [o1] 2002 Zhang, W. Y. - Wang, Z. D.: Interface roughness and proximity effect on a c-axis Josephson junction between s-wave and d-wave superconductors. In: Physical Review B, Vol. 65, No. 14, 2002, Art. No. 144527 - SCI ; SCOPUS
- [o1] 2003 Asano, Y. - Tanaka, Y. - Sigrist, M. - Kashiwaya, S.: Josephson current in s-wave-superconductor/Sr<sub>2</sub>RuO<sub>4</sub> junctions. In: Physical Review B, Vol. 67, No. 18, 2003, Art. No. 184505 - SCI ; SCOPUS
- [o1] 2003 Asano, Y. - Tanaka, Y. - Matsuda, Y. - Kashiwaya, S.: A theoretical study of tunneling conductance in PrOs<sub>4</sub>Sb<sub>12</sub> superconducting junctions. In: Physical Review B, Vol. 68, No. 18, 2003, Art. No. 184506 - SCI ; SCOPUS
- [o1] 2003 Blais, A.: Algorithms and architectures for superconducting quantum computers. In: Annales de Physique, Vol. 28, No. 5, 2003, s. 1-148 - SCI ; SCOPUS
- [o1] 2003 Kwon, H. J. - Sengupta, K. - Yakovenko, V. M.: Theoretical prediction of the fractional ac Josephson effect in p- and d-wave superconductors. In: Brazilian Journal of Physics, Vol. 33, No. 4, 2003, s. 653-658 - SCI ; SCOPUS
- [o1] 2003 Luck, T. - Schwab, P. - Eckern, U. - Shelankov, A.: Disordered Josephson junctions of d-wave superconductors. In: Physical Review B, Vol. 68, No. 17, 2003, Art. No. 174524 - SCI ; SCOPUS
- [o1] 2003 Shirai, S. - Tsuchiura, H. - Tanaka, Y. - Inoue, J. - Kashiwaya, S.: Temperature dependence of the Josephson current in the d-wave superconductor junction based on the 2-D extended Hubbard model. In: Journal of Low Temperature Physics, Vol. 131, No. 3-4, 2003, s. 503-507 - SCI ; SCOPUS
- [o1] 2003 Shirai, S. - Tsuchiura, H. - Asano, Y. - Tanaka, Y. - Inoue, J. - Tanuma, Y. - Kashiwaya, S.: Josephson effect in d-wave superconductor junctions in a lattice model. In: Journal of the Physical Society of Japan, Vol. 72, No. 9, 2003, s. 2299-2307 - SCI ; SCOPUS
- [o1] 2003 Shirai, S. - Tsuchiura, H. - Tanaka, Y. - Inoue, J. - Kashiwaya, S.: Temperature dependence of Josephson current in d-wave superconductor. In: Towards the Controllable Quantum States: Mesoscopic Superconductivity and Spintronics. Singapore : World Scientific, 2003, S. 223-228 - SCI
- [o1] 2003 Tafuri, F. - Kirtley, J. R. - Lombardi, F. - Granozio, F. M.: Intrinsic and extrinsic d-wave effects in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta grain boundary Josephson junctions: Implications for pi circuitry. In: Physical Review B, Vol. 67, No. 17, 2003, Art. No. 174516 - SCI ; SCOPUS
- [o1] 2003 Tanuma, Y. - Kuroki, K. - Tanaka, Y. - Kashiwaya, S.: Zero-bias conductance peak splitting due to multiband effect in tunneling spectroscopy of organic superconductors. In: Physical Review B, Vol. 68, No. 21, 2003, Art. No. 214513 -SCI ; SCOPUS
- [o1] 2003 Wang, Z. X. - Zhang, W. Y. - Wang, Z. D.: Order parameter and current-phase relation in Josephson junctions composed of g+s-wave superconductors. In: Physical Review B, Vol. 68, No. 18, 2003, Art. No. 1845 - SCI ; SCOPUS
- [o1] 2004 Asano, Y. - Tanaka, Y. - Kashiwaya, S.: Split of zero-bias conductance peak in normal-metal/d-wave superconductor junctions. In: Physical Review B, Vol. 69, No. 21, 2004, Art. No. 214509 - SCI ; SCOPUS
- [o1] 2004 Barone, A. - Lombardi, F. - Monaco, A. - Sarnelli, E. - Tafuri, F. - Testa, G.: Effects of d-wave symmetry in high-T<sub>c</sub> grain boundary Josephson junctions. In: Physica Status Solidi B, Vol. 241, No. 6, 2004, s. 1192-1198 - SCI

- [o1] 2004 Bobkov, A. M. - Zhu, L. Y. - Tsai, S. W. - Nunner, T. S. - Barash, Y. S. - Hirschfeld, P. J.: Electronic structure of d-wave superconducting quantum wires. In: *Physical Review B*, Vol. 70, No. 14, 2004, Art. No. 144502 - SCI ; SCOPUS
- [o1] 2004 Bobkov, A. M.: Zero-energy Andreev surface bound states in the lattice model. In: *JETP Letters*, Vol. 80, No. 9, 2004, s. 584-587 - SCOPUS
- [o1] 2004 Borisenko, I. V. - Constantinian, K. Y. - Kisilinskii, Y. V. - Ovsyannikov, G. A.: Andreev states and shot noise in bicrystal junctions of cuprate superconductors. In: *Journal of Experimental and Theoretical Physics*, Vol. 99, No. 6, 2004, s. 1223-1232 - SCI ; SCOPUS
- [o1] 2004 Fang-Ying, L.: Thermodynamic properties of high temperature superconductor. In: *Physica C*, Vol. 402, No. 1-2, 2004, s. 174-178 - SCI
- [o1] 2004 Fang-Ying, L. - Guoliang, J. - Hanming, L. - Yingjun, L.: The study of characteristics of superconductive rings. In: *Physica C*, Vol. 411, No. 3-4, 2004, s. 89-93 - SCOPUS
- [o1] 2004 Gardiner, C. H. - Lee, R. A. M. - Gallop, J. C. - Tzalenchuk, A. Y. - Macfarlane, J. C. - Hao, L.: Degenerate ground state and anomalous flux hysteresis in an YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> grain boundary rf SQUID. In: *Superconductor Science & Technology*, Vol. 17, No. 5, Sp. Iss., 2004, s. S234-S240 - SCI ; SCOPUS
- [o1] 2004 Charlebois, S. A. - Lindstrom, T. - Tzalenchuk, A. Y. - Ivanov, Z. - Claeson, T.: Unconventional current-phase relations in YBCO dc-SQUIDS. In: *Physica C*, Vol. 408, 2004, s. 926-927 - SCI ; SCOPUS
- [o1] 2004 Kawabata, S. - Kashiwaya, S. - Asano, Y. - Tanaka, Y.: Macroscopic quantum tunneling and quasiparticle dissipation in d-wave superconductor Josephson junctions. In: *Physical Review B*, Vol. 70, No. 13, 2004, Art. No. 132505 - SCI ; SCOPUS
- [o1] 2004 Kwon, H. J. - Sengupta, K. - Yakovenko, V. M.: Fractional ac Josephson effect in p- and d-wave superconductors. In: *European Physical Journal B*, Vol. 37, No. 3, 2004, s. 349-361 - SCI ; SCOPUS
- [o1] 2004 Kwon, H. J. - Yakovenko, V. M. - Sengupta, K.: Fractional ac Josephson effect in unconventional superconductors. In: *Low Temperature Physics*, Vol. 30, No. 7-8, 2004, s. 613-619 - SCI ; SCOPUS
- [o1] 2004 Liang, F. Y. - Jing, G. L. - Li, H. M. - Li, Y. J.: The study of characteristics of superconductive rings. In: *Physica C*, Vol. 411, No. 3-4, 2004, s. 89-93 - SCI ; SCOPUS
- [o1] 2004 Tafuri, F. - Kirtley, J. R. - Lombardi, F. - Bauch, T. - Barone, A.: Vortex matter in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>- $\delta$  grain boundary Josephson junctions: intrinsic and extrinsic d-wave effects for  $\pi$ -circuitry. In: *Physica C*, Vol. 404, No. 1-4, 2004, s. 367-374 - SCI ; SCOPUS
- [o1] 2004 Tafuri, F. - Kirtley, J. R. - Lombardi, F. - Medaglia, P. G. - Orgiani, P. - Balestrino, G.: Advances in high-T<sub>c</sub> grain-boundary junctions. In: *Low Temperature Physics*, Vol. 30, No. 7-8, 2004, s. 591-598 - SCI ; SCOPUS
- [o1] 2004 Tanaka, Y. - Asano, Y. - Kashiwaya, S.: Impurity scattering effect on charge transport in high-T<sub>c</sub> cuprate junctions. In: *Low Temperature Physics*, Vol. 30, No. 7-8, 2004, s. 579-590 - SCI
- [o1] 2004 Testa, G. - Monaco, A. - Esposito, E. - Sarnelli, E. - Kang, D. J. - Mennema, S. H. - Tarte, E. J. - Blamire, M. G.: Midgap state-based  $\pi$ -junctions for digital applications. In: *Applied Physics Letters*, Vol. 85, No. 7, 2004, s. 1202-1204 - SCI ; SCOPUS
- [o1] 2004 Timofeev, V. P. - Bondarenko, A. V.: On the nonmonotonic temperature dependence of the magnetization of YBCO single crystals at low fields. In: *Low Temperature Physics*, Vol. 30, No. 7-8, 2004, s. 610-612 - SCI ; SCOPUS
- [o1] 2004 Yoshida, J. - Katsuno, H. - Nakayama, K. - Nagano, T.: Current transport and the fluctuation of critical current in high-temperature superconductor interface-engineered Josephson junctions. In: *Physical Review B*, Vol. 70, No. 5, 2004, Art. No. 054511 - SCI ; SCOPUS
- [o1] 2005 Akulin, V. M. - Kurizki, G. - Pellegrin, S. - Sarfati, A.: How to control decoherence and entanglement in quantum complex systems?. In: *Decoherence, Entanglement and Information Protection in Complex Quantum Systems : NATO Science Series, Series II: Mathematics, Physics and Chemistry*, Vol. 189. Dordrecht : Springer, 2005, S. 1+ - SCI
- [o1] 2005 Bauch, T. - Lombardi, F. - Tafuri, F. - Barone, A. - Rotoli, G. - Delsing, P. - Claeson, T.: Macroscopic quantum tunneling in d-wave YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>- $\delta$  Josephson junctions. In: *Physical Review Letters*, Vol. 94, No. 8, 2005, Art. No. 087003 - SCI ; SCOPUS
- [o1] 2005 Blamire, M. G. - Bell, C. - Burnell, G. - Kang, D. J. - Ruotolo, A. - Testa, G.: Focused ion beam fabrication and properties of nanoscale Josephson junctions for sensors and other applications. In: *Physica Status Solidi C*, Vol. 2, No. 5, 2005, s. 1455-1462 - SCI ; SCOPUS
- [o1] 2005 Bobkov, A. M.: Zero-energy Andreev surface bound states in the lattice model. In: *JETP Letters*, Vol. 80, No. 9, 2005, s. 584-587 - SCI

- [o1] 2005 Bobkova, I. V. - Barash, Y. S.: Low-energy quasiparticle states at superconductor/charge-density-wave interfaces. In: *Physical Review B*, Vol. 71, No. 14, 2005, Art. No. 144510 - SCI ; SCOPUS
- [o1] 2005 Kawabata, S. - Kashiwaya, S. - Asano, Y. - Tanaka, Y.: Effect of zero-energy bound states on macroscopic quantum tunneling in high-T-c superconductor junctions. In: *Physical Review B*, Vol. 72, No. 5, 2005, Art. No. 052506 - SCI ; SCOPUS
- [o1] 2005 Kawabata, S. - Kashiwaya, S. - Asano, Y. - Tanaka, Y.: Quasiparticle dissipation in the measurement process of phase qubit using high-T-c superconductors. In: *Physica E*, Vol. 29, No. 3-4, 2005, s. 669-673 - SCI ; SCOPUS
- [o1] 2005 Kislinskii, Y. V. - Komissinski, P. V. - Constantinian, K. Y. - Ovsyannikov, G. A. - Karminskaya, T. Y. - Soloviev, I. I. - Kornev, V. K.: Superconducting current in hybrid heterojunctions of metal-oxide superconductors: Size and frequency dependences. In: *Journal of Experimental and Theoretical Physics*, Vol. 101, No. 3, 2005, s. 494-503 - SCI ; SCOPUS
- [o1] 2005 Lindstrom, T.: d-wave Josephson junctions-Dynamics and applications in the quantum regime. Goteborg : Chalmers University of Technology, 2005, 111 s. - SCOPUS
- [o1] 2005 Navacerrada, M. A. - Lucia, M. L. - Sanchez-Soto, L. L. - Quesada, F. S. - Sarnelli, E. - Testa, G.: Capacitance of Josephson junctions made on bicrystalline substrates of different geometries. In: *Physical Review B*, Vol. 71, No. 1, 2005, Art. No. 014501 - SCI ; SCOPUS
- [o1] 2005 Navacerrada, M. A. - Lucia, M. L. - Sanchez-Soto, L. L. - Sanchez-Quesada, E. - Sarnelli, E. - Testa, G.: Capacitive properties of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> grain boundary, Josephson junctions fabricated on 45 degrees [100] tilt asymmetric and 24degrees [001] tilt symmetric bicrystals. In: *IEEE Transactions on Applied Superconductivity*, Vol. 15, No. 2, Part 1, 2005, s. 169-172 - SCI ; SCOPUS
- [o1] 2005 Tafuri, F. - Kirtley, J. R.: Weak links in high critical temperature superconductors. In: *Reports on Progress in Physics*, Vol. 68, No. 11, 2005, s. 2573-2663 - SCOPUS
- [o1] 2005 Tanaka, Y. - Kashiwaya, S. - Yokoyama, T.: Theory of enhanced proximity effect by midgap Andreev resonant state in diffusive normal-metal/triplet superconductor junctions. In: *Physical Review B*, Vol. 71, No. 9, 2005, Art. No. 094513- SCI ; SCOPUS
- [o1] 2005 Testa, G. - Sarnelli, E. - Monaco, A. - Esposito, E. - Ejrnaes, M. - Kang, D. J. - Mennema, S. H. - Tarte, E. J. - Blamire, M. G.: Evidence of midgap-state-mediated transport in 45 degrees symmetric [001] tilt YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> bicrystalgrain-boundary junctions. In: *Physical Review B*, Vol. 71, No. 13, 2005, Art. No. 134520 - SCI ; SCOPUS
- [o1] 2006 Arnold, G. B. - Klemm, R. A.: Josephson (001) tilt grain boundary junctions of high-temperature superconductors. In: *Philosophical Magazine*, Vol. 86, No. 19, 2006, s. 2811-2833 - SCI ; SCOPUS
- [o1] 2006 Asano, Y. - Tanaka, Y. - Yokoyama, T. - Kashiwaya, S.: Josephson current through superconductor/diffusive-normal-metal/superconductor junctions: Interference effects governed by pairing symmetry. In: *Physical Review B*, Vol. 74, No.6, 2006, Art. No. 064507 - SCI
- [o1] 2006 Bobkov, A. M.: Discrete-lattice model approach to the tunneling between d-wave superconductors: Interference of tunnel bonds. In: *JETP Letters*, Vol. 83, No. 3, 2006, s. 98-102 - SCI ; SCOPUS
- [o1] 2006 Claeson, T. - Lombardi, F. - Bauch, T. - Lindstrom, T. - Delsing, P. - Barone, A. - Tafuri, F. - Rotoli, G.: Macroscopic quantum phenomena in high critical temperature superconducting Josephson junctions. In: *Journal of Superconductivity and Novel Magnetism*, Vol. 19, No. 3-5, 2006, s. 341-347 - SCI ; SCOPUS
- [o1] 2006 Kawabata, S. - Tanaka, Y. - Kashiwaya, S. - Asano, Y.: Theory of macroscopic quantum tunneling in high-T-c cuprate. In: *Physica C*, Vol. 437-438, 2006, s. 140-144 - SCI ; SCOPUS
- [o1] 2006 Liang, F. Y. - Li, H. M. - Li, Y. J.: Study of current in superconductive rings. In: *Acta Physica Sinica*, Vol. 55, No. 2, 2006, s. 830-833 - SCI
- [o1] 2006 Lombardi, F. - Bauch, T. - Johansson, J. - Cedergren, K. - Lindstrom, T. - Tafuri, F. - Stepantsov, E.: Quantum properties of d-wave YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-delta</sub> Josephson junction. In: *Physica C*, Vol. 435, No. 1-2, 2006, s. 8-11 - SCI ; SCOPUS
- [o1] 2006 Ovsyannikov, G. A. - Constantinian, K. Y. - Kislinskii, Y. V. - Komissinskii, P. V. - Borisenko, I. V. - Karminskaya, T. Y. - Kornev, V. K.: Microwave dynamics of Josephson structures with nontrivial current-phase relation. In: *Journal of Communications Technology and Electronics*, Vol. 51, No. 9, 2005, s. 1078-1086 - SCI
- [o1] 2006 Tafuri, F. - Lombardi, F. - Bauch, T. - Stornaiuolo, D. - Born, D. - Dalena, D. - Barone, A. - Rotoli, G. - Medaglia, P. G. - Orgiani, P. - Balestrino, G. - Kogan, V. - Kirtley, J. R.: Quantum behaviors in high-T-c systems: Macroscopic and vortex quantum tunneling. In: *Physica C*, Vol. 437-438, 2006, s. 303-308 - SCI ; SCOPUS

- [o1] 2006 Tanuma, Y. - Tanaka, Y. - Kashiwaya, S.: Theory of the proximity effect at the interface of a normal metal and triplet p-wave superconductor in the clean limit. In: *Physical Review B*, Vol. 74, No. 2, 2006, Art. No. 024506 - SCI ; SCOPUS
- [o1] 2006 Testa, G. - Laviano, F. - Kang, D. J. - Tarte, E. J. - Mennema, S. H. - Blamire, M. G.: Stray-field effects in submicron YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> bicrystal grain boundary junctions. In: *Physical Review B*, Vol. 73, No. 1, 2006, Art. No. 014522 -SCI ; SCOPUS
- [o1] 2006 Wu, C. E. - Liu, Y. - Chi, C. C.: The gradiometer flux qubit without an external flux bias. In: *Superconductor Science & Technology*, Vol. 19, No. 4, 2006, s. 280-285 - SCI
- [o1] 2007 Askerzade, I. N.: Plasma frequency of the tunnel Josephson junctions with anharmonic current-phase relationship. In: *Technical Physics Letters*, Vol. 33, No. 9, 2007, s. 723-725 - SCI ; SCOPUS
- [o1] 2007 Bauch, T. - Johansson, J. - Cedergren, K. - Lindstrom, T. - Lombardi, F.: YBCOSQUIDS with unconventional current phase relation. In: *Physica C*, Vol. 463-465, Suppl., 2007, s. 979-984 - SCI ; SCOPUS
- [o1] 2007 Bauch, T. - Cedergren, K. - Johansson, J. - Rotoli, G. - Tafuri, F. - Lombardi, F.: Dynamics of d-wave YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> dc SQUIDS. In: *Superconductor Science and Technology*, Vol. 20, No. 2, SP. Iss., 2007, s. S98-S104 - SCI ; SCOPUS
- [o1] 2007 Benjamin, C. - Jonckheere, T. - Zazunov, A. - Martin, T.: Controllable pi junction in a Josephson quantum-dot device with molecular spin. In: *European Physical Journal B*, Vol. 57, No. 3, 2007, s. 279-289 - SCI ; SCOPUS
- [o1] 2007 Goldobin, E. - Koelle, D. - Kleiner, R. - Buzdin, A.: Josephson junctions with second harmonic in the current-phase relation: Properties of phi junctions. In: *Physical Review B*, Vol. 76, No. 22, 2007, Art. No. 224523 - SCI ; SCOPUS
- [o1] 2007 Gumann, A. - Iniotakis, C. - Schopohl, N.: Geometric pi Josephson junction in d-wave superconducting thin films. In: *Applied Physics Letters*, Vol. 91, No. 19, 2007, Art. No. 192502 - SCI ; SCOPUS
- [o1] 2008 Andersen, B. M. - Barash, Y. S. - Graser, S. - Hirschfeld, P. J.: Josephson effects in d-wave superconductor junctions with magnetic interlayers. In: *Physical Review B*, Vol. 77, No. 5, 2008, Art. No. 054501 - SCI ; SCOPUS
- [o1] 2008 Komissinskiy, P. - Ovsyannikov, G. A. - Constantinian, K. Y. - Kisilinski, Y. V. - Borisenko, I. V. - Soloviev, I. I. - Kornev, V. K. - Goldobin, E. - Winkler, D.: High-frequency dynamics of hybrid oxide Josephson heterostructures. In: *Physical Review B*, Vol. 78, No. 2, 2008, Art. No. 024501 - SCI ; SCOPUS
- [o1] 2008 Savvides, N.: Niobium step-edge superconducting junctions. In: *Superconductor Science and Technology*, Vol. 21, No. 4, 2008, Art. No. 045013 - SCI ; SCOPUS
- [o1] 2008 Stornaiuolo, D. - Gambale, E. - Bauch, T. - Born, D. - Cedergren, K. - Dalena, D. - Barone, A. - Tagliacozzo, A. - Lombardi, F. - Tafuri, F.: Underlying physical aspects of fluctuations in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-delta</sub> grain boundary Josephson junctions. In: *Physica C*, Vol. 468, No. 4, 2008, s. 310-315 - SCI ; SCOPUS
- [o1] 2009 Gumann, A. - Schopohl, N.: Phase diagram of geometric d-wave superconductor Josephson junctions. In: *Physical Review B*, Vol. 79, No. 14, 2009, Art. No. 144505 - SCI ; SCOPUS
- [o1] 2009 Kawabata, S. - Bauch, T. - Kato, T.: Theory of two-dimensional macroscopic quantum tunneling in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-delta</sub> Josephson junctions coupled to an LC circuit. In: *Physical Review B*, Vol. 80, No. 17, 2009, Art. No. 174513 - SCI ; SCOPUS
- [o1] 2009 Silaev, M. A. - Yokoyama, T. - Linder, J. - Tanaka, Y. - Sudbo, A.: Tunneling conductance and local density of states in time-reversal symmetry breaking superconductors under the influence of an external magnetic field. In: *Physical Review B*, Vol. 79, No. 5, 2009, Art. No. 054508 - SCI ; SCOPUS
- [o1] 2009 Stornaiuolo, D. - Cedergren, K. - Born, D. - Bauch, T. - Barone, A. - Lombardi, F. - Tafuri, F.: Sub-Micron YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Biepitaxial Junctions. In: *IEEE Transactions on Applied Superconductivity*, Vol. 19, No. 3, 2009, s. 174-177 - SCI ; SCOPUS
- [o1] 2010 Barone, A. - Lombardi, F. - Tafuri, F.: Frontiers Problems of the Josephson Effect: From Macroscopic Quantum Phenomena Decay to High-T-C Superconductivity. In: *Nanoscience and Engineering in Superconductivity : Nanoscience and Technology*. Berlin : Springer-Verlag Berlin, 2010, S. 105-135 - BKCI-S
- [o1] 2010 Barone, A. - Lombardi, F. - Rotoli, G. - Tafuri, F.: Macroscopic quantum phenomena in Josephson structures. In: *Low Temperature Physics*, Vol. 36, No. 10-11, 2010, s. 876-883 - SCI ; SCOPUS
- [o1] 2010 Barone, A. - Lombardi, F. - Rotoli, G. - Tafuri, F.: Macroscopic quantum phenomena in Josephson structures. In: *Fizika Nizkikh Temperatur (Kharkov)*, Vol. 36, No. 10-11, 2010, s. 1098-1106 - SCOPUS
- [o1] 2010 Carbone, A. - Gilli, M. - Mazzetti, P. - Ponta, L.: Array of Josephson junctions with a nonsinusoidal current-phase relation as a model of the resistive transition of unconventional superconductors. In: *Journal of Applied Physics*, Vol. 108, No. 12, 2010, Art. No. 123916 - SCI ; SCOPUS



- [o1] 2010 Stornaiuolo, D. - Rotoli, G. - Cedergren, K. - Born, D. - Bauch, T. - Lombardi, F. - Tafuri, F.: Submicron YBaCuO biepitaxial Josephson junctions: d-wave effects and phase dynamics. In: *Journal of Applied Physics*, Vol. 107, No. 11, 2010, Art. No. 113901 - SCI ; SCOPUS
- [o1] 2010 Topal, U. - Yakinci, M. E.: Effects of grain boundaries on electrical and magnetic properties of melt-processed SmBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> superconductors. In: *Materials Chemistry and Physics*, Vol. 119, No. 1-2, 2010, s. 182-187 - SCI ; SCOPUS
- [o1] 2011 Lombardi, F. - Bauch, T.: d-Wave YBCO dc superconductive quantum interference devices (dc SQUIDS). In: *High-Temperature Superconductors : Woodhead Publishing in Materials*. Cambridge : Elsevier, 2011, S. 370-389 - BKCI-S ; SCOPUS
- [o1] 2011 Mitchell, E. E. - Macfarlane, J. C. - Foley, C. P.: Transport properties of variable-angle YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>-delta step-edge junctions in the a-b plane. In: *Superconductor Science & Technology*, Vol. 24, No. 5, 2011, Art. No. 055004 - SCI ; SCOPUS
- [o1] 2011 Nagel, J. - Konovalenko, K. B. - Kemmler, M. - Turad, M. - Werner, R. - Kleisz, E. - Menzel, S. - Klingeler, R. - Buechner, B. - Kleiner, R. - Koelle, D.: Resistively shunted YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> grain boundary junctions and low-noise SQUIDspatterned by a focused ion beam down to 80 nm linewidth. In: *Superconductor Science & Technology*, Vol. 24, No. 1, 2011, Art. No. 015015 - SCI ; SCOPUS
- [o1] 2011 Ovsyannikov, G. A. - Constantinian, K. Y. - Kislinski, Y. V. - Shadrin, A. V. - Zaitsev, A. V. - Petrzikh, A. M. - Demidov, V. V. - Borisenko, I. V. - Kalabukhov, A. V. - Winkler, D.: Proximity effect and electron transport in oxidehybrid heterostructures with superconducting/magnetic interfaces. In: *Superconductor Science & Technology*, Vol. 24, No. 5, 2011, Art. No. 055012 - SCI ; SCOPUS
- [o1] 2012 Nappi, C. - De Nicola, S. - Adamo, M. - Sarnelli, E.: Theory of the electrical transport in tilted layered superconducting Josephson junctions. In: *Physical Review B*, Vol. 86, No. 2, 2012, Art. No. 024517 - SCI ; SCOPUS
- [o1] 2012 Ovsyannikov, G. A. - Constantinian, K. Y.: Josephson effect in copper oxide superconducting structures. In: *Fizika Nizkikh Temperatur*, Vol. 38, No. 4, 2012, s. 423-433 - SCOPUS
- [o1] 2012 Ovsyannikov, G. A. - Constantinian, K. Y.: Josephson effect in cuprate superconducting structures. In: *Low Temperature Physics*, Vol. 38, No. 4, 2012, s. 333-340 - SCI ; SCOPUS
- [o1] 2012 Villegas, K. H. - Yanga, D. M.: Josephson tunneling current in spin polaron theory. In: *Journal of Superconductivity and Novel Magnetism*, Vol. 25, No. 6, 2012, s. 1873-1877 - SCI ; SCOPUS
- [o1] 2013 Nappi, C. - De Nicola, S. - Adamo, M. - Sarnelli, E.: Model prediction of high-temperature pi-states in iron pnictide superconductor-insulator-superconductor Josephson junctions. In: *EPL*, Vol. 102, No. 4, 2013, Art. No. 47007 - SCOPUS
- [o1] 2013 Sarnelli, E. - Adamo, M. - De Nicola, S. - Cibella, S. - Leoni, R. - Nappi, C.: Amplitude sensitive experiment of pairing symmetry in d(0)-d(0) submicron Y-Ba-Cu-O bicrystal grain boundary junctions. In: *Superconductor Science & Technology*, Vol. 26, No. 10, 2013, Art. No. 105013 - SCI ; SCOPUS
- [o1] 2013 Stornaiuolo, D. - Rotoli, G. - Massarotti, D. - Carillo, F. - Longobardi, L. - Beltram, F. - Tafuri, F.: Resolving the effects of frequency-dependent damping and quantum phase diffusion in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> Josephson junctions. In: *Physical Review B*, Vol. 87, No. 13, 2013, Art. No. 134517 - SCI ; SCOPUS
- [o1] 2013 Tafuri, F. - Massarotti, D. - Galletti, L. - Stornaiuolo, D. - Montemurro, D. - Longobardi, L. - Lucignano, P. - Rotoli, G. - Pepe, G. P. - Tagliacozzo, A. - Lombardi, F.: Recent achievements on the physics of high-T<sub>C</sub> superconductor Josephson junctions: Background, perspectives and inspiration. In: *Journal of Superconductivity and Novel Magnetism*, Vol. 26, No. 1, 2013, s. 21-41 - SCI ; SCOPUS
- [o1] 2014 Gabovich, A. M. - Voitenko, A. I.: Anomalous temperature dependence of the stationary Josephson tunnel current in junctions between d-wave superconductors. In: *Low Temperature Physics*, Vol. 40, No. 9, 2014, s. 816-822 - SCI ; SCOPUS
- [o1] 2014 Gabovich, A. M. - Voitenko, A. I.: Anomalous temperature dependence of the stationary Josephson tunnel current in junctions between d-wave superconductors. In: *Fizika Nizkikh Temperatur*, Vol. 40, No. 9, 2014, s. 1045-1052 - SCOPUS
- [o1] 2014 Gabovich, A. M. - Li, M. S. - Szymczak, H. - Voitenko, A. I.: Stationary Josephson current in junctions involving d-wave superconductors with charge density waves: the temperature dependence and deviations from the law of corresponding states. In: *European Physical Journal B*, Vol. 87, No. 5, 2014, Art. No. 115 - SCI ; SCOPUS
- [o1] 2014 Sarnelli, E. - Adamo, M. - De Nicola, S. - Cibella, S. - Leoni, R. - Nappi, C.: Influence of d-wave pairing on electrical properties of d(0)-d(0) submicron YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> bicrystal grain boundary junctions. In: *11th European Conference on Applied Superconductivity (EUCAS 2013), PTS 1-4 : Journal of Physics Conference Series*, Vol. 507. Bristol : IOP Publishing, 2014, Art. No. 042036 - CPCI-S ; SCOPUS

- ADC28 Shaternik, Vladimir - Belogolovskii, Mikhail A. - Plecenik, Andrej [UKOMFKEF] - Beňačka, Štefan - Grajcar, Miroslav [UKOMFKEF] - Rudenko, Eduard: Asymmetric double-barrier S-I1-N-I2-S Josephson heterojunctions: experiment and theory  
In: Physica C - Superconductivity and its Applications. - Vol. 350, No. 3-4 (2001), s. 187-192  
*Indikátor časopisu:*  
IF (JCR) 2001=0,806  
*Ohlasy (3):*  
[o1] 2002 Niemeyer, J.: SINIS junction technology for complex superconducting circuits. In: Physica C - Superconductivity and its Applications, Vol. 372, Part 1, 2002, s. 291-296 - SCI  
[o1] 2004 Golubov, A. A. - Kupriyanov, M. Y. - Il'ichev, E.: The current-phase relation in Josephson junctions. In: Reviews of Modern Physics, Vol. 76, No. 2, 2004, s. 411-469 - SCI  
[o1] 2005 Larkin, S. Y. - Shaternik, V. Y.: Asymmetric duo-barrier tunnel transitions on the basis of niobium nitride. In: Izvestiya Vysshikh Uchebnykh Zavedenii Radioelektronika, Vol. 48, No. 5-6, 2005, s. A20-A25 - SCI
- ADC29 Belogolovskii, Mikhail A. - Revenko, Jurij - Svistunov, Vladimír M. - Grajcar, Miroslav [UKOMFKEF] - Seidel, Paul: Dephasing effects in superconducting heterojunctions: a crossover from coherent to sequential transmission  
Lit. 10 zázn.  
In: Physica C - Superconductivity and its Applications. - Vol. 367, No. 1-4 (2002), s. 218-221  
*Indikátor časopisu:*  
IF (JCR) 2002=0,912
- ADC30 Grajcar, Miroslav [UKOMFKEF] - Hlubina, Richard [UKOMFKEF] - Il'ichev, Evgeni - Meyer, Hans-Georg: Superconducting transport properties of YBCO grain boundar Josephson junctions  
Lit. 8 zázn.  
In: Physica C - Superconductivity and its Applications. - Vol. 368, No. 1-4 (2002), s. 267-270  
*Indikátor časopisu:*  
IF (JCR) 2002=0,912
- ADC31 Grajcar, Miroslav [UKOMFKEF] - Ebel, Mark - Il'ichev, Evgeni - Kürsten, R. - Matsuyama, T. - Merkt, Ulrich: Supercurrent-phase relation of a Nb/InAs(2DEG)/Nb Josephson junction  
Lit. 12 zázn.  
In: Physica C - Superconductivity and its Applications. - Vol. 372, Part 1 (2002), s. 27-30  
*Indikátor časopisu:*  
IF (JCR) 2002=0,912  
*Ohlasy (4):*  
[o1] 2009 Liu, X. - Borunda, M. F. - Liu, X. J. - Sinova, J.: Control of Josephson current by Aharonov-Casher phase in a Rashba ring. In: Physical Review B, Vol. 80, No. 17, 2009, Art. No. 174524 - SCI ; SCOPUS  
[o1] 2009 Rohlfing, F. - Tkachov, G. - Otto, F. - Richter, K. - Weiss, D. - Borghs, G. - Strunk, C.: Doppler shift in Andreev reflection from a moving superconducting condensate in Nb/InAs Josephson junctions. In: Physical Review B, Vol. 80, No. 22, 2009, Art. No. 220507 - SCI ; SCOPUS  
[o1] 2013 Tkachov, G. - Hankiewicz, E. M.: Spin-helical transport in normal and superconducting topological insulators. In: Physica Status Solidi (B) Basic Research, Vol. 250, No. 2, 2013, s. 215-232 - SCI ; SCOPUS  
[o1] 2015 Sochnikov, I. - Maier, L. - Watson, C. A. - Kirtley, J. R. - Gould, C. - Tkachov, G. - Hankiewicz, E. M. - Bruene, C. - Buhmann, H. - Molenkamp, L. W. - Moler, K. A.: Nonsinusoidal current-phase relationship in Josephson junctions from the 3D topological insulator HgTe. In: Physical Review Letters, Vol. 114, No. 6, 2015, Art. No. 066801 - SCI
- ADC32 Greenberg, J. S. - Izmalkov, A. - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni - Krech, Wolfram - Meyer, Hans-Georg: Method for direct observation of coherent quantum oscillations in a superconducting phase qubit  
Lit. 21 zázn.  
In: Physical Review B. - Vol. 66, No. 22 (2002), Art. No. 224511  
*Indikátor časopisu:*

IF (JCR) 2002=3,327

*Ohlasy (7):*

- [o1] 2003 Smirnov, A. Y.: Decoherence and relaxation of a quantum bit in the presence of Rabi oscillations. In: Physical Review B, Vol. 67, No. 15, 2003, Art. No. 155104 - SCI ; SCOPUS
- [o1] 2003 Smirnov, A. Y.: Theory of weak continuous measurements in a strongly driven quantum bit. In: Physical Review B, Vol. 68, No. 13, 2003, Art. No. 134514 ; SCOPUS
- [o1] 2003 Tian, L. - Lloyd, S. - Orlando, T. P.: Projective measurement scheme for solid-state qubits. In: Physical Review B, Vol. 67, No. 22, 2003, Art. No. 220505 - SCI ; SCOPUS
- [o1] 2006 Schlosshauer, M.: Experimental motivation and empirical consistency in minimal no-collapse quantum mechanics. In: Annals of Physics, Vol. 321, No. 1, 2006, s. 112-149 - SCI ; SCOPUS
- [o1] 2006 Wu, T. - Liu, J. S. - Li, Z.: Numerical simulation of leakage effect for quantum NOT operation on three-Josephson-junction flux qubit. In: Chinese Physics Letters, Vol. 23, No. 4, 2006, s. 971-974 - SCI ; SCOPUS
- [o1] 2008 Shevchenko, S. N.: Impedance measurement technique for quantum systems. In: European Physical Journal B, Vol. 61, No. 2, 2008, s. 187-191 - SCI ; SCOPUS
- [o1] 2012 Lu, Z. - Zheng, H.: Effects of counter-rotating interaction on driven tunneling dynamics: Coherent destruction of tunneling and Bloch-Siegert shift. In: Physical Review a - Atomic, Molecular, and Optical Physics, Vol. 86, No. 2, 2012, Art. No. 023831 - SCOPUS

ADC33 Greenberg, J. S. - Izmalkov, A. - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni - Krech, Wolfram - Meyer, Hans-Georg - Amin, M. H. S.: Low-frequency characterization of quantum tunneling in flux qubits Lit. 14 zázn.

In: Physical Review B. - Vol. 66, No. 21 (2002), Art. No. 214525

*Indikátor časopisu:*

IF (JCR) 2002=3,327

*Ohlasy (21):*

- [o1] 2003 Smirnov, A. Y.: Theory of weak continuous measurements in a strongly driven quantum bit. In: Physical Review B, Vol. 68, No. 13, 2003, Art. No. 134514 - SCI ; SCOPUS
- [o1] 2005 Smirnov, A. Y.: A method for continuous monitoring of quantum tunneling in a molecular double dot. In: Physica E, Vol. 26, No. 1-4, 2005, s. 297-301 - SCI ; SCOPUS
- [o1] 2006 Klenov, N. V. - Kornev, V. K. - Pedersen, N. F.: The energy level splitting for unharmonic dc-SQUID to be used as phase Q-bit. In: Physica C, Vol. 435, No. 1-2, 2006, s. 114-117 - SCI ; SCOPUS
- [o1] 2006 Klenov, N. V. - Kornev, V. K. - Pedersen, N. F.: The unharmonic dc SQUID energy level splitting. In: Journal of Physics Conference Series, Vol. 43, No. 1, 2006, Art. No. 345 - SCOPUS
- [o1] 2006 Wu, T. - Liu, J. S. - Li, Z.: Numerical simulation of leakage effect for quantum NOT operation on three-Josephson-junction flux qubit. In: Chinese Physics Letters, Vol. 23, No. 4, 2006, s. 971-974 - SCI ; SCOPUS
- [o1] 2007 Deppe, F. - Mariantoni, M. - Menzel, E. P. - Saito, S. - Kakuyanagi, K. - Tanaka, H. - Meno, T. - Semba, K. - Takayanagi, H. - Gross, R.: Phase coherent dynamics of a superconducting flux qubit with capacitive bias readout. In: Physical Review B, Vol. 76, No. 21, 2007, Art. No. 214503 - SCI ; SCOPUS
- [o1] 2007 Kiyko, A. S. - Omelyanchouk, A. N. - Shevchenko, S. N.: Dynamic behavior of a superconducting flux qubit excited by a series of electromagnetic pulses. In: Low Temperature Physics, Vol. 33, No. 12, 2007, s. 1015-1018 - SCI ; SCOPUS
- [o1] 2008 Andre, S. - BroSCO, V. - Fedorov, A. - Schon, G. - Shnirman, A.: Decoherence and Relaxation in Driven Circuit QED Systems. In: Solid-State Quantum Computing : AIP Conference Proceedings, Vol. 1074. Melville : AIP, 2008, S. 4-11 - SCI
- [o1] 2008 Hauss, J. - Fedorov, A. - Andre, S. - BroSCO, V. - Hutter, C. - Kothari, R. - Yeshwanth, S. - Shnirman, A. - Schon, G.: Dissipation in circuit quantum electrodynamics: Lasing and cooling of a low-frequency oscillator. In: New Journal of Physics, Vol. 10, 2008, Art. No. 095018 - SCI ; SCOPUS
- [o1] 2008 Hauss, J. - Fedorov, A. - Hutter, C. - Shnirman, A. - Schon, G.: Single-qubit lasing and cooling at the rabi frequency. In: Physical Review Letters, Vol. 100, No. 3, 2008, Art. No. 037003 - SCI ; SCOPUS
- [o1] 2008 Shevchenko, S. N.: Impedance measurement technique for quantum systems. In: European Physical Journal B, Vol. 61, No. 2, 2008, s. 187-191 - SCI ; SCOPUS
- [o1] 2009 Li, Z. - Wu, T. - Liu, J.: Optimal effective current operator for flux qubits accounting for inductive effects. In: Physical Review B, Vol. 79, No. 13, 2009, Art. No. 134519 - SCI ; SCOPUS

- [o1] 2010 Harris, R. - Johansson, J. - Berkley, A. J. - Johnson, M. W. - Lanting, T. - Han, S. - Bunyk, P. - Ladizinsky, E. - Oh, T. - Perminov, I. - Tolkacheva, E. - Uchaikin, S. - Chapple, E. M. - Enderud, C. - Rich, C. - Thom, M. - Wang, J. - Wilson, B. - Rose, G.: Experimental demonstration of a robust and scalable flux qubit. In: *Physical Review B*, Vol. 81, No. 13, 2010, Art. No. 134510 - SCI ; SCOPUS
- [o1] 2010 Shevchenko, S. N. - Ashhab, S. - Nori, F.: Landau-Zener-Stueckelberg interferometry. In: *Physics Reports-Review Section of Physics Letters*, Vol. 492, No. 1, 2010, s. 1-30 - SCI ; SCOPUS
- [o1] 2011 Chipouline, A. - Petschulat, J. - Tuennemann, A. - Pertsch, T. - Menzel, C. - Rockstuhl, C. - Lederer, F. - Fedotov, V. A.: Multipole model for metamaterials with gain: from nano-laser to quantum metamaterials. In: *Metamaterials VI: Proceedings of SPIE*, Vol. 8070. Bellingham : SPIE-International Society of Optical Engineering, 2011, Art. No. 807000 - CPCI-S ; SCOPUS
- [o1] 2011 Zagoskin, A. M.: Quantum engineering: Theory and design of quantum coherent structures. In: *Quantum Engineering: Theory and Design of Quantum Coherent Structures*, 2011, s. 1-332 - SCOPUS
- [o1] 2012 Klenov, N. V. - Kornev, V. K. - Sharafiev, A. V. - Bakurskiy, S. V.: Description of the evolution of the state of "josephson atoms" in the context of the informational interpretation of quantum mechanics. In: *Journal of Surface Investigation-X-Ray Synchrotron and Neutron Techniques*, Vol. 6, No. 3, 2012, s. 524-529 - SCI ; SCOPUS
- [o1] 2012 Lu, Z. - Zheng, H.: Effects of counter-rotating interaction on driven tunneling dynamics: Coherent destruction of tunneling and Bloch-Siegert shift. In: *Physical Review A*, Vol. 86, No. 2, 2012, Art. No. 023831 - SCI ; SCOPUS
- [o1] 2012 Shnyrkov, V. I. - Soroka, A. A. - Turutanov, O. G.: Quantum superposition of three macroscopic states and superconducting qutrit detector. In: *Physical Review B*, Vol. 85, No. 22, 2012, Art. No. 224512 - SCI ; SCOPUS
- [o1] 2012 Wilson, R. D. - Zagoskin, A. M. - Savel'ev, S. - Everitt, M. J. - Nori, F.: Feedback-controlled adiabatic quantum computation. In: *Physical Review A*, Vol. 86, No. 5, 2012, Art. No. 052306 - SCI ; SCOPUS
- [o1] 2014 You, J. Q. - Wang, Z. D. - Zhang, W. - Nori, F.: Encoding a qubit with Majorana modes in superconducting circuits. In: *Scientific Reports*, Vol. 4, 2014, Art. No. 5535 - SCI ; SCOPUS

ADC34 Il'ichev, Evgeni - Wagner, Thomas - Fritzsche, L. - Schultze, V. - May, T. - Hoenig, H. E. - Meyer, Hans-Georg - Grajcar, Miroslav [UKOMFKEF] - Born, Detlef - Krech, Wolfram - Fistul, M. V. - Zagoskin, Alexandre M.: Characterization of superconducting structures designed for qubit realizations  
Lit. 6 zázň.

In: *Applied Physics Letters*. - Vol. 80, No. 22 (2002), s. 4184-4186

*Indikátor časopisu:*

IF (JCR) 2002=4,207

*Ohlasy (6):*

[o1] 2003 Blais, A.: Algorithms and architectures for superconducting quantum computers. In: *Annales de Physique*, Vol. 28, No. 5, 2003, 148 s. - SCI ; SCOPUS

[o1] 2003 Greenberg, Y. S.: Method for direct observation of coherent quantum oscillations in a superconducting phase qubit: Computer simulations. In: *Physical Review B*, Vol. 68, No. 22, 2003, Art. No. 224517 - SCI ; SCOPUS

[o1] 2003 Smirnov, A. Y.: Theory of weak continuous measurements in a strongly driven quantum bit. In: *Physical Review B*, Vol. 68, No. 13, 2003, Art. No. 134514 - SCI ; SCOPUS

[o1] 2005 Smirnov, A. Y.: A method for continuous monitoring of quantum tunneling in a molecular double dot. In: *Physica E*, Vol. 26, No. 1-4, 2005, s. 297-301 - SCI ; SCOPUS

[o1] 2009 Vijay, R. - Devoret, M. H. - Siddiqi, I.: Invited Review Article: The Josephson bifurcation amplifier. In: *Review of Scientific Instruments*, Vol. 80, No. 11, 2009, Art. No. 111101 - SCI ; SCOPUS

[o1] 2010 Skinner, J. C. - Prance, H. - Stiffell, P. B. - Prance, R. J.: Sisyphus effects in a microwave-excited flux-qubit resonator system. In: *Physical Review Letters*, Vol. 105, No. 25, 2010, Art. No. 257002 - SCI ; SCOPUS

ADC35 Komissinski, Philip V. - Il'ichev, Evgeni - Ovsyannikov, G. A. - Grajcar, Miroslav [UKOMFKEF] - Hlubina, Richard [UKOMFKEF] - Ivanov, Z.: Superconducting current-phase relation of Nd/Au/(0 0 1) YBaCuO heterojunctions  
Lit. 17 zázň.

In: *Physica C - Superconductivity and its Applications*. - Vol. 368, No. 1-4 (2002), s. 271-275

*Indikátor časopisu:*  
IF (JCR) 2002=0,912

ADC36 Komissinski, Philip V. - Il'ichev, Evgeni - Ovsyannikov, G. A. - Kovtonyuk, S. A. - Grajcar, Miroslav [UKOMFKEF] - Hlubina, Richard [UKOMFKEF] - Ivanov, Z. - Tanaka, Y. - Yoshida, Norio - Kashiwaya, S.: Observation of the second harmonic insuperconducting current-phase relation of Nb/Au(001)YBa<sub>2</sub>Cu<sub>3</sub>O<sub>x</sub> heterojunctions

Lit. 25 zázň.

In: Europhysics Letters. - Vol. 57, No. 4 (2002), s. 585-591

*Indikátor časopisu:*

IF (JCR) 2002=2,360

*Ohlasy (10):*

[o1] 2007 Goldobin, E. - Koelle, D. - Kleiner, R. - Buzdin, A.: Josephson junctions with second harmonic in the current-phase relation: Properties of  $\phi$  junctions. In: Physical Review B, Vol. 76, No. 22, 2007, Art. No. 224523 - SCI ; SCOPUS

[o1] 2008 Savvides, N.: Niobium step-edge superconducting junctions. In: Superconductor Science & Technology, Vol. 21, No. 4, 2008, Art. No. 045013 - SCI ; SCOPUS

[o1] 2012 Gabovich, A. M. - Voitenko, A. I.: dc Josephson current for d-wave superconductors with charge density waves. In: Low Temperature Physics, Vol. 38, No. 4, 2012, s. 326-332 - SCI ; SCOPUS

[o1] 2012 Gabovich, A. M. - Voitenko, A. I.: Dc Josephson current for d-wave superconductors with charge density waves. In: Fizika Nizkikh Temperatur, Vol. 38, No. 4, 2012, s. 414-422 - SCOPUS

[o1] 2013 Gabovich, A. M. - Li, M. S. - Szymczak, H. - Voitenko, A. I.: Orientation peculiarities of dc Josephson tunneling between d-wave superconductors with charge density waves. In: Physical Review B, Vol. 87, No. 10, 2013, Art. No. 104503 - SCI ; SCOPUS

[o1] 2013 Sarnelli, E. - Adamo, M. - De Nicola, S. - Cibella, S. - Leoni, R. - Nappi, C.: Amplitude sensitive experiment of pairing symmetry in d(0)-d(0) submicron Y-Ba-Cu-O bicrystal grain boundary junctions. In: Superconductor Science & Technology, Vol. 26, No. 10, 2013, Art. No. 105013 - SCI ; SCOPUS

[o1] 2013 Sergeev, D.: Plasma frequency in Josephson junctions with a non-sinusoidal current phase relation. In: Oxide Materials for Electronic Engineering - Fabrication, Properties and Applications : Solid State Phenomena, Vol. 200. Stafa-Zurich : Transaction Technical Publications, 2013, S. 272-275 - CPCI-S ; SCOPUS

[o1] 2013 Sergeev, D. - Shunkeyev, K. - Zhanturina, N. - Shunkeyev, S.: The influence of external weak magnetic field on anharmonic nanocontacts of Josephson type. In: International Conference on Functional Materials and Nanotechnologies 2013(Fm&nt2-13) : IOP Conference Series-Materials Science and Engineering, Vol. 49. Bristol : IOP Publishing Ltd, 2013, Art. No. 012049 - CPCI-S ; SCOPUS

[o1] 2014 Sarnelli, E. - Adamo, M. - De Nicola, S. - Cibella, S. - Leoni, R. - Nappi, C.: Influence of d-wave pairing on electrical properties of d(0)-d(0) submicron YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> bicrystal grain boundary junctions. In: 11th European Conference on Applied Superconductivity (EUCAS 2013), PTS 1-4 : Journal of Physics Conference Series, Vol. 507. Bristol : IOP Publishing Ltd, 2014, Art. No. 042036 - CPCI-S ; SCOPUS

[o1] 2015 Vopilkin, E. A. - Chiginev, A. V. - Revin, L. S. - Tropanova, A. N. - Shuleshova, I. Y. - Okhapkin, A. I. - Shovkun, A. D. - Kulakov, A. B. - Pankratov, A. L.: Quick and reliable technology for fabrication of stand-alone BSCCO mesas. In: Superconductor Science & Technology, Vol. 28, No. 4, 2015, Art. No. 045006 - SCI ; SCOPUS

ADC37 Krech, Wolfram - Grajcar, Miroslav [UKOMFKEF] - Born, Detlef - Zhilyaev, I. - Wagner, Thomas - Il'ichev, Evgeni - Greenberg Yakov: Dynamic features of a charge qubit closed by a superconducting inductive ring

Lit. 18 zázň., 6 obr.

In: Physics Letters A. - Vol. 303, No. 5-6 (2002), s. 352-357

*Indikátor časopisu:*

IF (JCR) 2002=1,483

*Ohlasy (7):*

[o1] 2006 Shevchenko, S. N. - Omelyanchouk, A. N.: Resonant effects in the strongly driven phase-biased Cooper-pair box. In: Low Temperature Physics, Vol. 32, No. 10, 2006, s. 973-975 - SCI ; SCOPUS

[o1] 2006 Shevchenko, S. N. - Omelyanchouk, A. N.: Resonant effects in the strongly driven phase-biased Cooper-pair box. In: Fizika Nizkikh Temperatur (Kharkov), Vol. 32, No. 10, 2006, s. 1282-1285 - SCOPUS

- [o1] 2006 Zorin, A. B.: Coupling and dephasing in Josephson charge-phase qubit with radio frequency readout. In: Quantum Computing in Solid State Systems, 2006, s. 19-27 - SCOPUS
- [o1] 2008 Shevchenko, S. N.: Impedance measurement technique for quantum systems. In: European Physical Journal B, Vol. 61, No. 2, 2008, s. 187-191 - SCI ; SCOPUS
- [o1] 2008 Shnyrkov, V. I. - Soroka, A. A. - Melnyk, S. I.: The two-Josephson-junction flux qubit with large tunneling amplitude. In: Low Temperature Physics, Vol. 34, No. 8, 2008, s. 610-616 - SCI ; SCOPUS
- [o1] 2008 Shnyrkov, V. I. - Soroka, A. A. - Melnyk, S. I.: The two Josephson junction flux qubit with large tunneling amplitude. In: Fizika Nizkikh Temperatur (Kharkov), Vol. 34, No. 8, 2008, s. 773-780 - SCOPUS
- [o1] 2014 Dong, X. P. - Yan, R. Y.: Dynamics of superconducting charge qubit driven by ac voltage. In: Current Development of Mechanical Engineering and Energy, PTS 1 and 2 : Applied Mechanics and Materials, Vol. 494-495. Stafa-Zurich :Transanctions Technical Publications, 2014, S. 1440-1443 - CPCIS-S ; SCOPUS

ADC38 Plecenik, Andrej [UKOMFKEF] - Beňačka, Štefan - Kúš, Peter [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF]: Superconducting gap parameters of MgB2 obtained on MgB2/Ag and MgB2/In junctions Lit. 12 zázň.

In: Physica C - Superconductivity and its Applications. - Vol. 368, No. 1-4 (2002), s. 251-254

URL: [http://xxx.lanl.gov/PS\\_cache/cond-mat/pdf/0104/0104038.pdf](http://xxx.lanl.gov/PS_cache/cond-mat/pdf/0104/0104038.pdf)

*Indikátor časopisu:*

IF (JCR) 2002=0,912

POZNÁMKA:

Vyšlo aj - arXiv.org: Condensed Matter. - No. cond-mat/0104038 (2001), 3 s.

*Ohlasy (32):*

- [o1] 2001 Bauer, E. - Paul, C. - Berger, S. - Majumdar, S. - Michor, H. - Giovannini, M. - Saccone, A.: Thermal conductivity of superconducting MgB2. In: Journal of Physics-Condensed Matter, Vol. 13, No. 22, 2001, s. L487-L493 - SCI
- [o1] 2001 Buzea, C. - Yamashita, T.: Review of the superconducting properties of MgB2. In: Superconductor Science & Technology, Vol. 14, No. 11, 2001, s. R115- R146 - SCI ; SCOPUS
- [o1] 2001 Gonelli, R. S. - Calzolari, A. - Daghero, D. - Umrinario, G. A. - Stepanov, V. A. - Giunchi, G. - Ceresara, S. - Ripamonti, G.: Josephson effect in MgB2 break junctions. In: Physical Review Letters, Vol. 87, No. 9, 2001, Art. No.097001 - SCI
- [o1] 2001 Laube, F. - Goll, G. - Hagel J. - von Lohneysen, H. - Ernst, D. - Wolf, T.: Superconducting energy gap distribution of MgB2 investigated by point-contact spectroscopy. In: Europhysics Letters, Vol. 56, No. 2, 2001, s. 296-301 - SCI
- [o1] 2001 Szabo, P. - Samuely, P. - Kačmarčík, J. - Klein, Th. - Marcus, J. - Fruchart, D. - Miraglia, S.: Evidence for two superconducting energy gaps in MgB2 by point-contact spectroscopy. In: Physical Review Letters, Vol. 87, No. 13, 2001, Art. No. 137005 - SCI
- [o1] 2001 Tsuda, S. - Yokoya, T. - Kiss, T. - Takano, Y. - Togano, K. - Kito, H. - Ihara, H.: Evidence for a multiple superconducting gap in MgB2 from high-resolution photoemission spectroscopy. In: Physical Review Letters, Vol. 87, No. 17, 2001, Art. No. 177006 - SCI
- [o1] 2001 Zhang, Y. - Kinion, D. - Chen, J. - Clarke, J. - Hinks, D. G. - Crabtree, G. W.: MgB2 tunnel junctions and 19 K low-noise dc superconducting quantum interference devices. In: Applied Physics Letters, Vol. 79, No. 24, 2001, s.3995-3997 - SCI
- [o1] 2002 Badr, M. H. - Freamat, M. - Sushko, Y. - Ng, K. W.: Temperature and field dependence of the energy gap of MgB2/Pb planar junctions. In: Physical Review B, Vol. 65, No. 18, 2002, Art. No. 184516 - SCI
- [o1] 2002 Brinkman, A. - Golubov, A. A. - Rogalla, H. - Dolgov, O. V. - Kortus, J. - Kong, Y. - Jepsen, O. - Andersen, O. K.: Multiband model for tunneling in MgB2 junctions. In: Physical Review B, Vol. 65, No. 18, 2002, Art. No. 180517 - SCI; SCOPUS
- [o1] 2002 Bugoslavsky, Y. - Miyoshi, Y. - Perkins, G. K. - Berenov, A. V. - Lockman, Z. - MacMagnus-Driscoll, J. L. - Cohen, L. F.: Structure of the superconducting gap in MgB2 from point-contact spectroscopy. In: Superconductor Science & Technology, Vol. 15, No. 4, 2002, s. 526-532 - SCI ; SCOPUS
- [o1] 2002 Carapella, G. - Martucciello, N. - Costabile, G. - Ferdeghini, C. - Ferrando, V. - Grassano, G.: Josephson effect in Nb/Al2O3/Al/MgB2 large-area thin-film heterostructures. In: Applied Physics Letters, Vol. 80, No. 16, 2002, s.2949-2951 - SCI
- [o1] 2002 Gabovich, A. M. - Voitenko, A. I. - Li, M. S. - Szymczak, H.: Heat capacity of mesoscopically disordered superconductors: implications for MgB2. In: Low Temperature Physics, Vol. 28, No. 11, 2002, s. 803-811 - SCI ; SCOPUS

- [o1] 2002 Golubov, A. A. - Kortus, J. - Dolgov, O. V. - Jepsen, O. - Kong, Y. - Andersen, O. K. - Gibson, B. J.: Specific heat of MgB<sub>2</sub> in a one- and a two-band model from first-principles calculations. In: *Journal of Physic-Condensed Matter*, Vol. 14, No. 6, 2002, s. 1353-1360 - SCI
- [o1] 2002 Gonnelli, R. S. - Ummarino, G. A. - Daghero, D. - Calzolari, A. - Stepanov, V. A.: Gap measurements in MgB<sub>2</sub> break-junction and point-contact heterostructures: Test of the two-band models. In: *International Journal of Modern PhysicsB*, Vol. 16, No. 11-12, 2002, s. 1553-1561 - SCI
- [o1] 2002 Li, Z. Y. - Yang, J. L. - Hou, J. G. - Zhu, Q. S.: First-principles study of MgB<sub>2</sub> (0001) surfaces. In: *Physical Review B*, Vol. 65, No. 10, 2002, Art. No. 100507 - SCI
- [o1] 2002 Li, Z. Z. - Tao, H. J. - Xuan, Y. - Ren, Z. A. - Che, G. C. - Zhao, B. R.: Andreev reflection spectroscopy evidence for multiple gaps in MgB<sub>2</sub>. In: *Physical Review B*, Vol. 66, No. 6, 2002, Art. No. 064513 - SCI ; SCOPUS
- [o1] 2002 Majoros, M. - Glowacki, B. A. - Vickers, M. E.: 50 K anomalies in superconducting MgB<sub>2</sub> wires in copper and silver tubes. In: *Superconductor Science & Technology*, Vol. 15, No. 2, 2002, s. 269-275 - SCI
- [o1] 2002 Naidyuk, Y. G. - Yanson, I. K. - Tyutrina, L. V. - Bobrov, N. L. - Chubov, P. N. - Kang, W. N. - Kim, H. J.: Superconducting energy gap distribution in c-axis oriented MgB<sub>2</sub> thin film from point contact study. In: *JETP Letters*, Vol. 75, No. 5, 2002, s. 238-241 - SCI ; SCOPUS
- [o1] 2002 Tsuda, S. - Yokoya, T. - Kiss, T. - Chainani, A. - Takano, Y. - Togano, K. - Kito, H.: Superconducting gap of MgB<sub>2</sub> observed using ultrahigh-resolution photoemission spectroscopy. In: *Physica B-Condensed Matter*, Vol. 312-313, 2002, s.150-151 - SCI
- [o1] 2002 Yokoya, T. - Tsuda, S. - Chainani, A. - Kiss, T. - Hirata, K. - Takano, Y. - Togano, K.: Photoemission results of intermetallic superconductors: Nb<sub>3</sub>Al and MgB<sub>2</sub>. In: *Journal of Physics and Chemistry of Solids*, Vol. 63, No. 12, 2002, s. 2141-2144 - SCI ; SCOPUS
- [o1] 2003 Carapella, G. - Martucciello, N. - Costabile, G. - Ferdeghini, C. - Ferrando, V. - Grassano, G.: Nb/Al<sub>2</sub>O<sub>3</sub>/Al/MgB<sub>2</sub> large area thin films heterostructures: Possible observation of tunneling from both dirty and clean limit MgB<sub>2</sub>. In: *International Journal of Modern Physics B*, Vol. 17, Part 2, No. 4-6, 2003, s. 751-756 - SCI
- [o1] 2003 Gabovich, A. M. - Li, M. S. - Szymczak, H. - Voitenko, A. I.: Thermodynamics of superconductors with charge-density waves. In: *Journal of Physics-Condensed Matter*, Vol. 15, No. 17, 2003, s. 2745-2753 - SCI ; SCOPUS
- [o1] 2003 Jin, H. - Wen, H. H. - Yang, H. P. - Liu, Z. Y. - Ren, Z. A. - Che, G. C. - Zhao, Z. X.: Rigid vortices in MgB<sub>2</sub>. In: *Applied Physics Letters*, Vol. 83, No. 13, 2003, s. 2626-2628 - SCI ; SCOPUS
- [o1] 2003 Samuely, P. - Szabo, P. - Kačmarčík, J. - Klein, T. - Jansen, A. G. M.: *Physica C-Superconductivity and its Applications*, Vol. 385, No. 1-2, 2003, s. 244-254 - SCI
- [o1] 2003 Schmidt, H. - Zasadzinski, J. F. - Gray, K. E. - Hinks, D. G.: *Physica C-Superconductivity and its Applications*, Vol. 385, No. 1-2, 2003, s. 221-232 - SCI ; SCOPUS
- [o1] 2003 Szabo, P. - Samuely, P. - Kačmarčík, J. - Jansen, A. G. M. - Klein, T. - Marcus, J. - Marcenat, C.: Andreev-reflection study in MgB<sub>2</sub>. In: *Superconductor Science & Technology*, Vol. 16, No. 2, 2003, s. 162-166 - SCI ; SCOPUS
- [o1] 2004 Gabovich, A. M. - Li, M. S. - Pekala, M. - Szymczak, H. - Voitenko, A. I.: Heat capacity of mesoscopically inhomogeneous superconductors: theory and applications to MgB<sub>2</sub>. In: *Physica C-Superconductivity and its Applications*, Vol.405, No. 3-4, 2004, s. 187-211 - SCI ; SCOPUS
- [o1] 2004 Heitmann, T. W. - Bu, S. D. - Kim, D. M. - Choi, J. H. - Giencke, J. - Eom, C. B. - Regan, K. A. - Rogado, N. - Hayward, M. A. - He, T. - Slusky, J. S. - Khalifah, P. - Haas, M. - Cava, R. J. - Larbalestier, D. C. - Rzhovskii, M. S.: MgB<sub>2</sub> energy gap determination by scanning tunnelling spectroscopy. In: *Superconductor Science & Technology*, Vol. 17, No. 2, Suppl. S, 2004, p. 237-242 - SCI ; SCOPUS
- [o1] 2007 Akutagawa, S. - Muranaka, T. - Akimitsu, J.: Superconductivity in magnesium diboride and its related materials. In: *Electron Correlation in New Materials and Nanosystems : NATO Science Series 2*, Vol. 241. Dordrecht : Springer, 2007, s. 73-92 - CPCI-S
- [o1] 2009 Lal, R. - Vajpayee, A. - Awana, V. P. S. - Kishan, H. - Awasthi, A. M.: Hump structure below T<sub>c</sub> in the thermal conductivity of MgB<sub>2</sub> superconductor. In: *Physica C*, Vol. 469, No. 2-3, 2009, s. 106-110 - SCI ; SCOPUS
- [o1] 2010 Daghero, D. - Gonnelli, R. S.: Probing multiband superconductivity by point-contact spectroscopy. In: *Superconductor Science and Technology*, Vol. 23, No. 4, 2010, Art. No. 043001 - SCI ; SCOPUS
- [o1] 2012 Takasaki, T. - Ekino, T. - Gabovich, A. M. - Sugimoto, A. - Yamanaka, S. - Akimitsu, J.: Tunneling spectroscopy of Novel Layered superconductors: MgB<sub>2</sub>, Li<sub>0.48</sub>(THF)X<sub>2</sub>HfNCl and related substances. In:

Superconductivity: Theory, Materials and Applications. Hauppauge : Nova Science Publishers, 2012, S. 1-110 - SCOPUS

- ADC39 Il'ichev, Evgeni - Oukhanski, N. - Izmalkov, A. - Wagner, Thomas - Grajcar, Miroslav [UKOMFKEF] - Meyer, Hans-Georg - Smirnov, A. Yu - van den Brink, Alec Maassen - Amin, M. H. S. - Zagoskin, Alexandre M.: Continuous monitoring of Rabi oscillations in a Josephson flux qubit  
Lit. 21 záz., 4 obr.  
In: Physical Review Letters. - Vol. 91, No. 9 (2003), Art. No. 097906  
*Indikátor časopisu:*  
IF (JCR) 2003=7,035  
*Ohlasy (91):*  
[o1] 2003 Blais, A.: Algorithms and architectures for superconducting quantum computers. In: Annales de Physique, Vol. 28, No. 5, 2003, s. 1-148 - SCI ; SCOPUS  
[o1] 2003 Braginski, A. I.: ISEC 2003 - reflections on the conference. In: Superconductor Science and Technology, Vol. 16, No. 12, 2003, s. 1315-1319 - SCI ; SCOPUS  
[o1] 2003 Migliore, R. - Konstadopoulou, A. - Vourdas, A. - Spiller, T. P. - Messina, A.: Entangling gates using Josephson circuits coupled through non-classical microwaves. In: Physics Letters A, Vol. 319, No. 1-2, 2003, s. 67-72 - SCI ; SCOPUS  
[o1] 2004 Blais, A. - Huang, R. S. - Wallraff, A. - Girvin, S. M. - Schoelkopf, R. J.: Cavity quantum electrodynamics for superconducting electrical circuits: An architecture for quantum computation. In: Physical Review A, Vol. 69, No. 6, 2004, Art. No. 062320 - SCI ; SCOPUS  
[o1] 2004 Mao, W. J. - Averin, D. V. - Ruskov, R. - Korotkov, A. N.: Mesoscopic quadratic quantum measurements. In: Physical Review Letters, Vol. 93, No. 5, 2004, Art. No. 056803 - SCI ; SCOPUS  
[o1] 2004 Rabenstein, K. - Sverdlov, V. A. - Averin, D. V.: Qubit decoherence by Gaussian low-frequency noise. In: JETP Letters, Vol. 79, No. 12, 2004, s. 646-649 - SCI ; SCOPUS  
[o1] 2004 Rau, I. - Johansson, G. - Shnirman, A.: Cavity quantum electrodynamics in superconducting circuits: Susceptibility at elevated temperatures. In: Physical Review B, Vol. 70, No. 5, 2004, Art. No. 054521 - SCI ; SCOPUS  
[o1] 2004 Wei, L. F. - Liu, Y. X. - Nori, F.: Coupling Josephson qubits via a current-biased information bus. In: Europhysics Letters, Vol. 67, No. 6, 2004, s. 1004-1010 - SCI ; SCOPUS  
[o1] 2005 Averin, D. V. - Korotkov, A. N.: Comment on "Continuous quantum measurement: Inelastic tunneling and lack of current oscillations". In: Physical Review Letters, Vol. 94, No. 6, 2005, Art. No. 069701 - SCI  
[o1] 2005 Dziarmaga, J.: Fast partial decoherence of a superconducting flux qubit in a spin bath. In: Physical Review B, Vol. 71, No. 5, 2005, Art. No. 054516 - SCI ; SCOPUS  
[o1] 2005 Everitt, M. J. - Clark, T. D. - Stiffell, P. B. - Ralph, J. F. - Harland, C. J.: Energy downconversion between classical electromagnetic fields via a quantum mechanical SQUID ring. In: Physical Review B, Vol. 72, No. 9, 2005, Art.No. 094509 - SCI ; SCOPUS  
[o1] 2005 Grigorenko, I. A. - Khveshchenko, D. V.: Robust two-qubit quantum registers. In: Physical Review Letters, Vol. 94, No. 4, 2005, Art. No. 040506 - SCI ; SCOPUS  
[o1] 2005 Jordan, A. N. - Buttiker, M.: Continuous quantum measurement with independent detector cross correlations. In: Physical Review Letters, Vol. 95, No. 22, 2005, Art. No. 220401 - SCI ; SCOPUS  
[o1] 2005 Korotkov, A. N.: Simple quantum feedback of a solid-state qubit. In: Physical Review B, Vol. 71, No. 20, 2005, s. 1-4 - SCI ; SCOPUS  
[o1] 2005 Korotkov, A. N.: Simple quadrature-based quantum feedback of a solid-state qubit. In: Proceedings of SPIE, Vol. 5846, 2005, s. 46-56 - SCI ; SCOPUS  
[o1] 2005 Lee, J. W. - Averin, D. V. - Benenti, G. - Shepelyansky, D. L.: Model of a deterministic detector and dynamical decoherence. In: Physical Review A, Vol. 72, No. 1, 2005, Art. No. 012310 - SCI ; SCOPUS  
[o1] 2005 Lee, J. C. - Oliver, W. D. - Orlando, T. P. - Berggren, K. K.: Resonant readout of a persistent current qubit. In: IEEE Transactions on Applied Superconductivity, Vol. 15, No. 2, Part 1, 2005, s. 841-844 - SCI ; SCOPUS  
[o1] 2005 Lindstrom, T.: d-wave Josephson junctions - Dynamics and applications in the quantum regime. Goteborg : Chalmers University of Technology, 2005, 111 s. - SCOPUS  
[o1] 2005 Mao, W. J. - Averin, D. V. - Plastina, F. - Fazio, R.: Continuous measurements of coherent quantum oscillations in two qubits. In: Physical Review B, Vol. 71, No. 8, 2005, Art. No. 085320 - SCI ; SCOPUS



- [o1] 2005 Patel, V. - Chen, W. - Pottorf, S. - Lukens, J. E.: A fast turn-around time process for fabrication of qubit circuits. In: IEEE Transactions on Applied Superconductivity, Vol. 15, No. 2, 2005, s. 117-120 - SCI ; SCOPUS
- [o1] 2005 Petrashov, V. T. - Chua, K. G. - Marshall, K. M. - Shaikhaidarov, R. S. - Nicholls, J. T.: Andreev probe of persistent current states in superconducting quantum circuits. In: Physical Review Letters, Vol. 95, No. 14, 2005, Art. No.147001 - SCI ; SCOPUS
- [o1] 2005 Plourde, B. L. T. - Robertson, T. L. - Reichardt, P. A. - Hime, T. - Linzen, S. - Wu, C. E. - Clarke, J.: Flux qubits and readout device with two independent flux lines. In: Physical Review B, Vol. 72, No. 6, 2005, Art. No. 060506 -SCI ; SCOPUS
- [o1] 2005 Rabenstein, K. - Sverdlov, V. A. - Averin, D. V.: Qubit decoherence by low-frequency noise. In: Realizing Controllable Quantum States. Singapore : World Scientific, 2005, S. 225-232 - SCI
- [o1] 2005 Robertson, T. L. - Plourde, B. L. T. - Hime, T. - Linzen, S. - Reichardt, P. A. - Wilhelm, F. K. - Clarke, J.: Superconducting quantum interference device with frequency-dependent damping: Readout of flux qubits. In: Physical Review B, Vol. 72, No. 2, 2005, Art. No. 024513 - SCI ; SCOPUS
- [o1] 2005 Wei, L. F. - Liu, Y. X. - Nori, F.: Quantum computation with Josephson qubits using a current-biased information bus. In: Physical Review B, Vol. 71, No. 13, 2005, Art. No. 134506 - SCI ; SCOPUS
- [o1] 2006 Averin, D. V. - Rabenstein, K. - Semenov, V. K.: Rapid ballistic readout for flux qubits. In: Physical Review B, Vol. 73, No. 9, 2006, Art. No. 094505 - SCI ; SCOPUS
- [o1] 2006 Bose, S.: Qubit assisted probing of coherence between mesoscopic states of an apparatus. In: Physical Review Letters, Vol. 96, No. 6, 2006, Art. No. 060402 - SCI ; SCOPUS
- [o1] 2006 Bose, S.: Probing the quantum nature of an apparatus. In: AIP Conference Proceedings, Vol. 864, 2006, s. 194-196 - SCI
- [o1] 2006 Griffith, E. J. - Ralph, J. F. - Greentree, A. D. - Clark, T. D.: Spectroscopy of a Cooper-pair box in the Autler-Townes configuration. In: Physical Review B, Vol. 74, No. 9, 2006, Art. No. 094510 - SCI ; SCOPUS
- [o1] 2006 Johansson, G. - Tornberg, L. - Shumeiko, V. S. - Wendin, G.: Readout methods and devices for Josephson-junction-based solid-state qubits. In: Journal of Physics, Vol. 18, No. 21, Sp. Iss., 2006, s. S901-S920 - SCI ; SCOPUS
- [o1] 2006 Peng, Z. H. - Zhang, M. J. - Zheng, D. N.: Detection of geometric phases in flux qubits with coherent pulses. In: Physical Review B, Vol. 73, No. 2, 2006, Art. No. 020502 - SCI ; SCOPUS
- [o1] 2006 Robertson, T. L. - Plourde, B. L. T. - Reichardt, P. A. - Hime, T. - Wu, C. E. - Clarke, J.: Quantum theory of three-junction flux qubit with non-negligible loop inductance: Towards scalability. In: Physical Review B, Vol. 73, No.17, 2006, Art. No. 174526 - SCI ; SCOPUS
- [o1] 2006 Ruskov, R. - Korotkov, A. N. - Mizel, A.: Quantum Zeno stabilization in weak continuous measurement of two qubits. In: Physical Review B, Vol. 73, No. 8, 2006, Art. No. 085317 - SCI ; SCOPUS
- [o1] 2006 Shevchenko, S. N. - Omelyanchouk, A. N.: Resonant effects in the strongly driven phase-biased Cooper-pair box. In: Low Temperature Physics, Vol. 32, No. 10, 2006, s. 973-975 - SCI ; SCOPUS
- [o1] 2006 Siddiqi, I. - Vijay, R. - Metcalfe, M. - Boaknin, E. - Frunzio, L. - Schoelkopf, R. J. - Devoret, M. H.: Dispersive measurements of superconducting qubit coherence with a fast latching readout. In: Physical Review B, Vol. 73, No. 5, 2006, Art. No. 054510 - SCI ; SCOPUS
- [o1] 2006 Sun, Y. - Yang, Y. P. - Chen, H.: Evolution of population inversion controlled by the time-dependent coupling: An inverse problem. In: Chinese Physics Letters, Vol. 23, No. 5, 2006, s. 1136-1138 - SCI ; SCOPUS
- [o1] 2006 Yang, C. P. - Han, S. Y.: Rotation gate for a three-level superconducting quantum interference device qubit with resonant interaction. In: Physical Review A, Vol. 74, No. 4, 2006, Art. No. 044302 - SCI ; SCOPUS
- [o1] 2006 Zhang, Q. - Kofman, A. - Martinis, J. M. - Korotkov, A. N.: Analysis of measurement errors for a superconducting phase qubit. In: Physical Review B, Vol. 74, No. 21, 2006, Art. No. 214518 - SCI ; SCOPUS
- [o1] 2007 Greenberg, Y. S.: Low-frequency Rabi spectroscopy of dissipative two-level systems: Dressed-state approach. In: Physical Review B, Vol. 76, No. 10, 2007, Art. No. 104520 - SCI ; SCOPUS
- [o1] 2007 Kofman, A. G. - Zhang, Q. - Martinis, J. M. - Korotkov, A. N.: Theoretical analysis of measurement crosstalk for coupled Josephson phase qubits. In: Physical Review B, Vol. 75, No. 1, 2007, Art. No. 014524 - SCI ; SCOPUS
- [o1] 2007 Pozzo, E. N. - Dominguez, D.: Fidelity and quantum chaos in the mesoscopic device for the Josephson flux qubit. In: Physical Review Letters, Vol. 98, No. 5, 2007, Art. No. 57006 - SCI ; SCOPUS

- [o1] 2007 Semenov, V. K. - Danilov, G. V. - Averin, D. V.: Classical and quantum operation modes of the reversible Josephson-junction logic circuits. In: IEEE Transactions on Applied Superconductivity, Vol. 17, No. 2, 2007, s. 455-461 - SCI ; SCOPUS
- [o1] 2007 Walter, J. - Tholen, E. - Haviland, D. B. - Sjostrand, J.: Pulse and hold strategy for switching current measurements. In: Physical Review B, Vol. 75, No. 9, 2007, Art. No. 094515 - SCI ; SCOPUS
- [o1] 2007 Wendin, G. - Shumeiko, V. S.: Quantum bits with Josephson junctions. In: Low Temperature Physics, Vol. 33, No. 9, 2007, s. 724-744 - SCI ; SCOPUS
- [o1] 2007 You, J. Q. - Hu, X. - Ashhab, S. - Nori, F.: Low-decoherence flux qubit. In: Physical Review B, Vol. 75, No. 14, 2007, Art. No. 140515 - SCI ; SCOPUS
- [o1] 2008 Abdumalikov Jr., A. A. - Astafiev, O. - Nakamura, Y. - Pashkin, Y. A. - Tsai, J.: Vacuum Rabi splitting due to strong coupling of a flux qubit and a coplanar-waveguide resonator. In: Physical Review B, Vol. 78, No. 18, 2008, Art. No. 180502 - SCI ; SCOPUS
- [o1] 2008 Andre, S. - Brosco, V. - Fedorov, A. - Schoen, G. - Shnirman, A.: Decoherence and relaxation in driven circuit QED Systems. In: AIP Conference Proceedings, Vol. 1074, 2008, s. 4-11 - SCI
- [o1] 2008 Cho, S. Y. - Kim, M. D.: Macroscopic many-qubit interactions in superconducting flux qubits. In: Physical Review B, Vol. 77, No. 21, 2008, Art. No. 212506 - SCI ; SCOPUS
- [o1] 2008 Gunnarsson, D. - Tuorila, J. - Paila, A. - Sarkar, J. - Thuneberg, E. - Makhlin, Y. - Hakonen, P.: Vibronic spectroscopy of an artificial molecule. In: Physical Review Letters, Vol. 101, No. 25, 2008, Art. No. 256806 - SCI ; SCOPUS
- [o1] 2008 Hauss, J. - Fedorov, A. - Hutter, C. - Shnirman, A. - Schon, G.: Single-qubit lasing and cooling at the Rabi frequency. In: Physical Review Letters, Vol. 100, No. 3, 2008, Art. No. 037003 - SCI ; SCOPUS
- [o1] 2008 Hauss, J. - Fedorov, A. - Andre, S. - Brosco, V. - Hutter, C. - Kothari, R. - Yeshwanth, S. - Shnirman, A. - Schoen, G.: Dissipation in circuit quantum electrodynamics: lasing and cooling of a low-frequency oscillator. In: NewJournal of Physics, Vol. 10, 2008, Art. No. 095018 - SCI
- [o1] 2008 Hong, F. Y. - Xiong, S. J.: Qubit manipulation with damped pulses. In: Chinese Journal of Physics, Vol. 46, No. 4, 2008, s. 379-385 - SCI ; SCOPUS
- [o1] 2008 Mariantoni, M. - Deppe, F. - Marx, A. - Gross, R. - Wilhelm, F. K. - Solano, E.: Two-resonator circuit quantum electrodynamics: A superconducting quantum switch. In: Physical Review B, Vol. 78, No. 10, 2008, Art. No. 104508 - SCI ; SCOPUS
- [o1] 2008 Marthaler, M. - Schon, G. - Shnirman, A.: Photon-number squeezing in circuit quantum electrodynamics. In: Physical Review Letters, Vol. 101, No. 14, 2008, Art. No. 147001 - SCI ; SCOPUS
- [o1] 2008 Naaman, O. - Aumentado, J. - Friedland, L. - Wurtele, J. S. - Siddiqi, I.: Phase-locking transition in a chirped superconducting Josephson resonator. In: Physical Review Letters, Vol. 101, No. 11, 2008, Art. No. 117005 - SCI ; SCOPUS
- [o1] 2008 Picot, T. - Lupascu, A. - Saito, S. - Harmans, C. J. P. M. - Mooij, J. E.: Role of relaxation in the quantum measurement of a superconducting qubit using a nonlinear oscillator. In: Physical Review B, Vol. 78, No. 13, 2008, Art. No. 132508 - SCI ; SCOPUS
- [o1] 2008 Pozzo, E. N. - Domingez, D. - Sanchez, M. J.: Quantum chaos in the mesoscopic device for the Josephson flux qubit. In: Physical Review B, Vol. 77, No. 2, 2008, Art. No. 024518 - SCI ; SCOPUS
- [o1] 2008 Samsonov, B. F. - Shamshutdinova, V. V.: Dynamical qubit controlling via pseudo-supersymmetry of two-level systems. In: Journal of Physics A, Vol. 41, No. 24, 2008, Art. No. 244023 - SCI ; SCOPUS
- [o1] 2008 Shi, Q. Q. - Cho, S. Y. - Li, B. - Kim, M. D.: Realizable spin models and entanglement dynamics in superconducting flux qubit systems. In: Physical Review B, Vol. 77, No. 10, 2008, Art. No. 104511 - SCI ; SCOPUS
- [o1] 2008 Wang, Y. D. - Semba, K. - Yamaguchi, H.: Cooling of a micro-mechanical resonator by the back-action of Lorentz force. In: New Journal of Physics, Vol. 10, 2008, Art. No. 043015 - SCI
- [o1] 2008 Zhirov, O. V. - Shepelyansky, D. L.: Synchronization and bistability of a qubit coupled to a driven dissipative oscillator. In: Physical Review Letters, Vol. 100, No. 1, 2008, Art. No. 014101 - SCI ; SCOPUS
- [o1] 2009 Andre, S. - Brosco, V. - Marthaler, M. - Shnirman, A. - Schoen, G.: Few-qubit lasing in circuit QED. In: Physica Scripta, Vol. T137, 2009, Art. No. 014016 - SCI ; SCOPUS
- [o1] 2009 Andre, S. - Brosco, V. - Shnirman, A. - Schoen, G.: Phase diffusion and locking in single-qubit lasers. In: Physical Review A, Vol. 79, No. 5, 2009, Art. No. 053848 - SCI ; SCOPUS
- [o1] 2009 Ashhab, S. - You, J. Q. - Nori, F.: Weak and strong measurement of a qubit using a switching-based detector. In: Physical Review A, Vol. 79, No. 3, 2009, Art. No. 032317 - SCI ; SCOPUS

- [o1] 2009 Camilleri, K.: A history of entanglement: Decoherence and the interpretation problem. In: Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, Vol. 40, No. 4, 2009, s. 290-302 -SCOPUS
- [o1] 2009 Chirulli, L. - Burkard, G.: Quantum nondemolition measurements of a qubit coupled to a harmonic oscillator. In: Physical Review B, Vol. 80, No. 18, 2009, Art. No. 184509 - SCI ; SCOPUS
- [o1] 2009 Korotkov, A. N.: Special issue on quantum computing with superconducting qubits. In: Quantum Information Processing, Vol. 8, No. 2-3, 2009, s. 51-54 - SCI ; SCOPUS
- [o1] 2009 Macovei, M. A. - Xie, X. T.: Two-photon cooling of a nonlinear quantum oscillator. In: Optics Communications, Vol. 282, No. 19, 2009, s. 3930-3933 - SCI ; SCOPUS
- [o1] 2009 Marchese, J. E. - Cirillo, M. - Gronbech-Jensen, N.: Investigation of resonant and transient phenomena in Josephson junction flux qubits. In: Physical Review B, Vol. 79, No. 9, 2009, Art. No. 094517 - SCI ; SCOPUS
- [o1] 2009 Shnyrkov, V. I. - Born, D. - Soroka, A. A. - Krech, W.: Coherent Rabi response of a charge-phase qubit under microwave irradiation. In: Physical Review B, Vol. 79, No. 18, 2009, Art. No. 184522 - SCI ; SCOPUS
- [o1] 2009 Xia, K. - Macovei, M. - Evers, J. - Keitel, C. H.: Robust coherent preparation of entangled states of two coupled flux qubits via dynamic control of the transition frequencies. In: Physical Review B, Vol. 79, No. 2, 2009, Art. No.024519 - SCI ; SCOPUS
- [o1] 2010 Clerk, A. A. - Devoret, M. H. - Girvin, S. M. - Marquardt, F. - Schoelkopf, R. J.: Introduction to quantum noise, measurement, and amplification. In: Reviews of Modern Physics, Vol. 82, No. 2, 2010, s. 1155-1208 - SCI ; SCOPUS
- [o1] 2010 Fedorov, A. - Feofanov, A. K. - MacHa, P. - Forn-Diaz, P. - Harmans, C. J. P. M. - Mooij, J. E.: Strong coupling of a quantum oscillator to a flux qubit at its symmetry point. In: Physical Review Letters, Vol. 105, No. 6, 2010, Art.No. 060503 - SCI ; SCOPUS
- [o1] 2010 Ferron, A. - Dominguez, D.: Intrinsic leakage of the Josephson flux qubit and breakdown of the two-level approximation for strong driving. In: Physical Review B, Vol. 81, No. 10, 2010, Art. No. 104505 - SCI ; SCOPUS
- [o1] 2010 Ferron, A. - Dominguez, D. - Jose Sanchez, M.: Large-amplitude harmonic driving of highly coherent flux qubits. In: Physical Review B, Vol. 82, No. 13, 2010, Art. No. 134522 - SCI ; SCOPUS
- [o1] 2010 Macovei, M. A.: Cooling a quantum circuit via coupling to a multiqubit system. In: Physical Review A, Vol. 81, No. 4, 2010, Art. No. 043411 - SCI ; SCOPUS
- [o1] 2010 Palacios-Laloy, A. - Mallet, F. - Nguyen, F. - Bertet, P. - Vion, D. - Esteve, D. - Korotkov, A. N.: Experimental violation of a Bells inequality in time with weak measurement. In: Nature Physics, Vol. 6, No. 6, 2010, s. 442-447 -SCI ; SCOPUS
- [o1] 2010 Skinner, J. C. - Prance, H. - Stiffell, P. B. - Prance, R. J.: Sisyphus effects in a microwave-excited flux-qubit resonator system. In: Physical Review Letters, Vol. 105, No. 25, 2010, Art. No. 257002 - SCI ; SCOPUS
- [o1] 2010 Wirth, T. - Lisenfeld, J. - Lukashenko, A. - Ustinov, A. V.: Microwave readout scheme for a Josephson phase qubit. In: Applied Physics Letters, Vol. 97, No. 26, 2010, Art. No. 262508 - SCI ; SCOPUS
- [o1] 2011 Glenn, R. - Raikh, M. E.: Rabi-vibronic resonance with large number of vibrational quanta. In: Physical Review B, Vol. 84, No. 19, 2011, Art. No. 195454 - SCI ; SCOPUS
- [o1] 2011 Korotkov, A. N.: Persistent Rabi oscillations probed via low-frequency noise correlation. In: Physical Review B, Vol. 83, No. 4, 2011, Art. No. 041406 - SCI ; SCOPUS
- [o1] 2011 You, J. Q. - Nori, F.: Atomic physics and quantum optics using superconducting circuits. In: Nature, Vol. 474, No. 7353, 2011, s. 589-597 - SCI ; SCOPUS
- [o1] 2012 Kim, M. D. - Moon, K.: Readout of superconducting flux qubit state with a Cooper pair box. In: Journal of Physics-Condensed Matter, Vol. 24, No. 22, 2012, Art. No. 225305 - SCI
- [o1] 2012 Lu, Z. - Zheng, H.: Effects of counter-rotating interaction on driven tunneling dynamics: Coherent destruction of tunneling and Bloch-Siegert shift. In: Physical Review A, Vol. 86, No. 2, 2012, Art. No. 023831 - SCI ; SCOPUS
- [o1] 2012 Murch, K. W. - Vool, U. - Zhou, D. - Weber, S. J. - Girvin, S. M. - Siddiqi, I.: Cavity-assisted quantum bath engineering. In: Physical Review Letters, Vol. 109, No. 18, 2012, Art. No. 183602 - SCI ; SCOPUS
- [o1] 2012 Romero-Isart, O. - Clemente, L. - Navau, C. - Sanchez, A. - Cirac, J. I.: Quantum magnetomechanics with levitating superconducting microspheres. In: Physical Review Letters, Vol. 109, No. 14, 2012, Art. No. 147205 - SCI ; SCOPUS

- [o1] 2013 Jin, J. - Marthaler, M. - Jin, P. Q. - Golubev, D. - Schoen, G.: Noise spectrum of a quantum dot-resonator lasing circuit. In: *New Journal of Physics*, Vol. 15, 2013, Art. No. 025044 - SCI
- [o1] 2013 Luo, J. - Jiao, H. - Xiong, B. - He, X. L. - Wang, C.: Non-Markovian dynamics and noise characteristics in continuous measurement of a solid-state charge qubit. In: *Journal of Applied Physics*, Vol. 114, No. 17, 2013, Art. No. 173703- SCI ; SCOPUS
- [o1] 2014 Shim, Y. P. - Tahan, C.: Superconducting-semiconductor quantum devices: From qubits to particle detectors. In: *IEEE Journal on Selected Topics in Quantum Electronics*, Vol. 21, No. 2, 2014, Art. No. 6899602 - SCOPUS
- [o1] 2014 Shnyrkov, V. I. - Krech, W. - Born, D. - Serebrovsky, V. V. - Turutanov, O. G.: Charge-flux qubit coupled to a tank circuit in a strong low-frequency electromagnetic field. In: *Low Temperature Physics*, Vol. 40, No. 12, 2014, s.1035-1043 - SCI ; SCOPUS
- [o1] 2014 Shnyrkov, V. I. - Krech, W. - Born, D. - Serebrovsky, V. V. - Turutanov, O. G.: Charge-flux qubit coupled to a tank circuit in strong low-frequency electromagnetic field. In: *Fizika Nizkikh Temperatur*, Vol. 40, No. 12, 2014, s.1331-1342 - SCOPUS
- ADC40 Il'ichev, Evgeni - Tafuri, F. - Grajcar, Miroslav [UKOMFKEF] - Ijsselsteijn, R. P. J. - Weber, J. - Lombardi, F. - Kirtley, J. R.: Paramagnetic effect in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> grain-boundary junctions  
Lit. 34 zázň.  
In: *Physical Review B*. - Vol. 68, No. 1 (2003), Art. No. 014510  
*Indikátor časopisu:*  
IF (JCR) 2003=2,962  
*Ohlasy (4):*  
[o1] 2003 Rotoli, G.: Induced paramagnetic states by localized pi loops in grain boundaries. In: *Physical Review B*, Vol. 68, No. 5, 2003, s. Art. No. 052505 - SCI ; SCOPUS  
[o1] 2004 Rotoli, G.: Paramagnetism in 1D mixed pi/conventional Josephson arrays. In: *Physica C*, Vol. 408, 2004, s. 380-381 - SCI ; SCOPUS  
[o1] 2005 Omelyanchouk, A. N. - Shevchenko, S. N. - Kolesnichenko, Y. A.: Vortex-like current states in Josephson ballistic point contacts. In: *Journal of Low Temperature Physics*, Vol. 139, No. 1-2, 2005, s. 247-256 - SCI ; SCOPUS  
[o1] 2009 Shevchenko, S. N.: Conductance characteristics of current-carrying d-wave weak links. In: *Low Temperature Physics*, Vol. 35, No. 11, 2009, s. 854-857 - SCI ; SCOPUS
- ADC41 May, T. - Il'ichev, Evgeni - Meyer, Hans-Georg - Grajcar, Miroslav [UKOMFKEF]: Microfabricated oscillator for radio-frequency microscopy with integrated magnetic field concentrator  
Lit. 4 zázň., 3 obr.  
In: *Review of Scientific Instruments*. - Vol. 74, No. 3 (2003), s. 1282-1284  
*Indikátor časopisu:*  
IF (JCR) 2003=1,343  
*Ohlasy (1):*  
[o1] 2010 Li, D. - da Silva, F. C. S. - Braje, D. A. - Simmonds, R. W. - Pappas, D. P.: Remote sensing and control of phase qubits. In: *Applied Physics Letters*, Vol. 97, No. 10, 2010, Art. No. 102507 - SCI ; SCOPUS
- ADC42 Oukhanski, N. - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni - Meyer, Hans-Georg: Low noise, low power consumption high electron mobility transistors amplifier, for temperatures below 1 K  
Lit. 7 zázň., 3 obr.  
In: *Review of Scientific Instruments*. - Vol. 74, No. 2 (2003), s. 1145-1146  
*Indikátor časopisu:*  
IF (JCR) 2003=1,343  
*Ohlasy (17):*  
[o1] 2004 Hutchinson, A. B. - Truitt, P. A. - Schwab, K. C. - Sekaric, L. - Parpia, J. M. - Craighead, H. G. - Butler, J. E.: Dissipation in nanocrystalline-diamond nanomechanical resonators. In: *Applied Physics Letters*, Vol. 84, No. 6, 2004, s. 972-974 - SCI ; SCOPUS  
[o1] 2005 Bhaskaran, H. - Pelekhov, D. - Hammel, P. C. - Schwab, K.: Development of ultra-sensitive capacitive readout for magnetic resonance force microscopy. In: *Design, Synthesis, and Applications*. New York : ASME, 2005, S. 11-12 - SCOPUS

- [o1] 2006 Kiviranta, M. - Virtanen, A. - Seppa, H. - Penttila, J. - Hassel, J. - Helisto, P.: A post-SQUID ac amplifier aimed for multiplexed detector readouts. In: Superconductor Science & Technology, Vol. 19, No. 5, 2006, s. S371-S375 - SCI; SCOPUS
- [o1] 2006 Kiviranta, M.: Use of SiGe bipolar transistors for cryogenic readout of SQUIDs. In: Superconductor Science & Technology, Vol. 19, No. 12, 2006, s. 1297-1302 - SCI ; SCOPUS
- [o1] 2007 Manucharyan, V. E. - Boaknin, E. - Metcalfe, M. - Vijay, R. - Siddiqi, I. - Devoret, M.: Microwave bifurcation of a Josephson junction: Embedding-circuit requirements. In: Physical Review B, Vol. 76, No. 1, 2007, Art. No. 014524 -SCI ; SCOPUS
- [o1] 2007 Truitt, P. A. - Hertzberg, J. B. - Huang, C. C. - Ekinici, K. L. - Schwab, K. C.: Efficient and sensitive capacitive readout of nanomechanical resonator arrays. In: Nano Letters, Vol. 7, No. 1, 2007, s. 120-126 - SCI ; SCOPUS
- [o1] 2008 Bushev, P. - Stahl, S. - Natali, R. - Marx, G. - Stachowska, E. - Werth, G. - Hellwig, M. - Schmidt-Kaler, F.: Electrons in a cryogenic planar Penning trap and experimental challenges for quantum processing. In: European Physical Journal D, Vol. 50, No. 1, 2008, s. 97-102 - SCI ; SCOPUS
- [o1] 2008 Gremion, E. - Cavanna, A. - Liang, Y. X. - Gennser, U. - Cheng, M. C. - Fesquet, M. - Chardin, G. - Benoit, A. - Jin, Y.: Development of ultra-low noise HEMTs for cryoelectronics at  $\leq 4.2$  K. In: Journal of Low Temperature Physics, Vol. 151, No. 3-4, Part 2, 2008, s. 971-978 - SCI ; SCOPUS
- [o1] 2008 Svindrych, Z. - Janu, Z. - Soukup, F. - Tichy, R.: Operational amplifiers operating in temperature range from 300 to 4.2 K. In: Cryogenics, Vol. 48, No. 3-4, 2008, s. 160-165 - SCI ; SCOPUS
- [o1] 2011 Korolev, A. M. - Shnyrkov, V. I. - Shulga, V. M.: Ultra-high frequency ultra-low dc power consumption HEMT amplifier for quantum measurements in millikelvin temperature range. In: Review of Scientific Instruments, Vol. 82, No. 1, 2011, Art. No. 016101 - SCI ; SCOPUS
- [o1] 2012 Dong, Q. - Liang, Y. X. - Gennser, U. - Cavanna, A. - Jin, Y.: The Role of the Gate Geometry for Cryogenic HEMTs: Towards an Input Voltage Noise Below 0.5 nV/root Hz at 1 kHz and 4.2 K. In: Journal of Low Temperature Physics, Vol. 167, No. 5-6, 2012, s. 626-631 - SCI ; SCOPUS
- [o1] 2012 Liang, Y. X. - Dong, Q. - Gennser, U. - Cavanna, A. - Jin, Y.: Input noise voltage below 1 nV/Hz<sup>1/2</sup> at 1 kHz in the HEMTs at 4.2 K. In: Journal of Low Temperature Physics, Vol. 167, No. 5-6, 2012, s. 632-637 - SCI ; SCOPUS
- [o1] 2012 Liang, Y. X. - Dong, Q. - Gennser, U. - Cavanna, A. - Jin, Y.: Specific HEMTs for deep cryogenic high-impedance ultra low low-frequency noise read-out electronics. In: 26th International Conference on Low Temperature Physics (LT26), PTS 1-5 : Journal of Physics Conference Series, Vol. 400. Bristol : IOP Publishing, 2012, Art. No. 052015 - CPCI-S ; SCOPUS
- [o1] 2013 Korolev, A. M. - Shulga, V. M. - Tarapov, S. I.: Design of Extra-Low Power Consumption Readout Amplifiers for Terahertz Matrix Receivers, Bolometer Arrays and Qubits below 1 K. In: 2013 International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves (Msmw). New York : IEEE, 2013, S. 106-108 - CPCI-S ; SCOPUS
- [o1] 2014 Hibi, Y. - Sun, J. - Qin, H. - Matsuo, H. - Kang, L. - Chen, J. - Wu, P.: Cryogenic GaN/AlGaN HEMT ICs and Fabrication Probability of Monolithic Sensor of Super- and Semiconductor Devices. In: 2014 11th International Workshop on Low Temperature Electronics (Wolte). New York : IEEE, 2014, S. 25-28 - CPCI-S ; SCOPUS
- [o1] 2014 Korolev, A. M. - Shulga, V. M. - Tarapov, S. I.: Extra-low power consumption amplifier based on HEMT in unsaturated mode for use at subkelvin ambient temperatures. In: Cryogenics, Vol. 60, 2014, s. 76-79 - SCI ; SCOPUS
- [o1] 2015 Korolev, A. M. - Shulga, V. M. - Gritsenko, I. A. - Sheshin, G. A.: PHEMT as a circuit element for high impedance nanopower amplifiers for ultra-low temperatures application. In: Cryogenics, Vol. 67, 2015, s. 31-35 - SCI ; SCOPUS

ADC43 Born, Detlef - Shnyrkov, Volodymyr I. - Krech, Wolfram - Wagner, Thomas - Ifichev, Evgeni - Grajcar, Miroslav [UKOMFKEF] - Hübner, U. - Meyer, Hans-Georg: Reading out the state inductively and microwave spectroscopy of an interferometer-type chargequbit  
Lit. 15 zázň., 5 obr.  
In: Physical Review B. - Vol. 70, No. 18 (2004), Art. No. 180501  
*Indikátor časopisu:*  
IF (JCR) 2004=3,075  
*Ohlasy (11):*

- [o1] 2005 Dolata, R. - Scherer, H. - Zorin, A. B. - Niemeyer J.: Single-charge devices with ultrasmall Nb/AlOx/Nb trilayer Josephson junctions. In: Journal of Applied Physics, Vol. 97, No. 5, 2005, Art. No. 054501 - SCI ; SCOPUS
- [o1] 2005 Sergeenkov, S.: Polarization effects induced by a magnetic field in intrinsically granular superconductors. In: Journal of Experimental and Theoretical Physics, Vol. 101, No. 5, 2005, s. 919-925 - SCI ; SCOPUS
- [o1] 2005 Schuster, D. I. - Wallraff, A. - Blais, A. - Frunzio, L. - Huang, R. S. - Majer, J. - Girvin, S. M. - Schoelkopf, R. J.: ac Stark shift and dephasing of a superconducting qubit strongly coupled to a cavity field. In: Physical Review Letters, Vol. 94, No. 12, 2005, Art. No. 123602 - SCI ; SCOPUS
- [o1] 2006 Zangerle, H. - Koenemann, J. - Mackrodt, B. - Dolata, R. - Lotkhov, S. V. - Bogoslovsky, S. A. - Goetz, M. - Zorin, A. B.: Ground-state characterization of Nb charge-phase Josephson qubits. In: Physical Review B, Vol. 73, No. 22, 2006, Art. No. 224527 - SCI ; SCOPUS
- [o1] 2007 Koenemann, J. - Zangerle, H. - Mackrodt, B. - Dolata, R. - Zorin, A. B.: Quasiparticle transitions in charge-phase qubits probed by rf oscillations. In: Physical Review B, Vol. 76, No. 13, 2007, Art. No. 134507 - SCI ; SCOPUS
- [o1] 2007 Walter, J. - Tholen, E. - Haviland, D. B. - Sjostrand, J.: Pulse and hold strategy for switching current measurements. In: Physical Review B, Vol. 75, No. 9, 2007, Art. No. 094515 - SCI ; SCOPUS
- [o1] 2008 Araujo-Moreira, F. M. - Sergeenkov, S.: Dynamical reentrance and geometry imposed quantization effects in Nb-AlOx-Nb Josephson junction arrays. In: Superconductor Science & Technology, Vol. 21, No. 4, 2008, Art. No. 045002 - SCI ; SCOPUS
- [o1] 2009 Paila, A. - Gunnarsson, D. - Sarkar, J. - Sillanpaa, M. A. - Hakonen, P. J.: Current-phase relation and Josephson inductance in a superconducting Cooper-pair transistor. In: Physical Review B, Vol. 80, No. 14, 2009, Art. No. 144520 - SCI ; SCOPUS
- [o1] 2009 Shaw, M. D. - Bueno, J. - Day, P. - Bradford, C. M. - Echternach, P. M.: Quantum capacitance detector: A pair-breaking radiation detector based on the single Cooper-pair box. In: Physical Review B - Condensed Matter and Materials Physics, Vol. 79, No. 14, 2009, Art. No. 144511 - SCOPUS
- [o1] 2010 Li, D. - da Silva, F. C. S. - Braje, D. A. - Simmonds, R. W. - Pappas, D. P.: Remote sensing and control of phase qubits. In: Applied Physics Letters, Vol. 97, No. 10, 2010, Art. No. 102507 - SCI ; SCOPUS
- [o1] 2012 Bell, M. T. - Ioffe, L. B. - Gershenson, M. E.: Microwave spectroscopy of a Cooper-pair transistor coupled to a lumped-element resonator. In: Physical Review B, Vol. 86, No. 14, 2012, Art. No. 144512 - SCI
- ADC44 Grajcar, Miroslav [UKOMFKEF] - Izmalkov, A. - Il'ichev, Evgeni - Wagner, Thomas - Oukhanski, N. - Hübner, U. - May, T. - Zhilyaev, I. - Hoenig, H. E. - Greenberg, J. S. - Shnyrkov, Volodymyr I. - Born, Detlef - Krech, Wolfram - Meyer, Hans-Georg - van den Brink, Alec Maassen - Amin, M. H. S.: Low-frequency measurement of the tunneling amplitude in a flux qubit  
Lit. 16 zázň., 3 obr.  
In: Physical Review B. - Vol. 69, No. 6 (2004), Art. No. 060501  
*Indikátor časopisu:*  
IF (JCR) 2004=3,075  
*Ohlasy (28):*
- [o1] 2004 Lupascu, A. - Verwijs, C. J. M. - Schouten, R. N. - Harmans, C. J. P. M. - Mooij, J. E.: Nondestructive readout for a superconducting flux qubit. In: Physical Review Letters, Vol. 93, No. 17, 2004, Art. No. 177006 - SCI ; SCOPUS
- [o1] 2005 Akulin, V. M. - Kurizki, G. - Pellegrin, S. - Sarfati A.: Editorial article - How to control decoherence and entanglement in quantum complex systems?. In: Decoherence, Entanglement and Information Protection in Complex Quantum Systems : Nato Science Series, Series II: Mathematics, Physics and Chemistry, Vol. 189. Dordrecht : Springer, 2005, S. 1 - SCI
- [o1] 2005 Goldobin, E. - Vogel, K. - Crasser, O. - Walser, R. - Schleich, W. P. - Koelle, D. - Kleiner, R.: Quantum tunneling of semifluxons in a 0- $\pi$ -0 long Josephson junction. In: Physical Review B, Vol. 72, No. 5, 2005, Art. No. 054527 - SCI ; SCOPUS
- [o1] 2005 Lupascu, A. - Harmans, C. J. P. M. - Mooij, J. E.: Quantum state detection of a superconducting flux qubit using a dc-SQUID in the inductive mode. In: Physical Review B, Vol. 71, No. 18, 2005, s. 1-10 - SCI ; SCOPUS
- [o1] 2005 Smirnov, A. Y.: A method for continuous monitoring of quantum tunneling in a molecular double dot . In: Physica E, Vol. 26, No. 1-4, 2005, s. 297-301 - SCI

- [o1] 2006 Intiso, S. - Pekola, J. - Savin, A. - Devyatov, Y. - Kidiyarova-Shevchenko, A.: Rapid single-flux-quantum circuits for low noise mK operation. In: *Superconductor Science & Technology*, Vol. 19, No. 5, 2006, s. S335-S339 - SCI ; SCOPUS
- [o1] 2006 Johansson, G. - Tornberg, L. - Wilson, C. M.: Fast quantum limited readout of a superconducting qubit using a slow oscillator. In: *Physical Review B*, Vol. 74, No. 10, 2006, Art. No. 100504 - SCI ; SCOPUS
- [o1] 2006 Lupascu, A. - Driessen, E. F. C. - Roschier, L. - Harmans, C. J. P. M. - Mooij, J. E.: High-contrast dispersive readout of a superconducting flux qubit using a nonlinear resonator. In: *Physical Review Letters*, Vol. 96, No. 12, 2006, Art. No. 127003 - SCI ; SCOPUS
- [o1] 2006 Siddiqi, I. - Vijay, R. - Metcalfe, M. - Boaknin, E. - Frunzio, L. - Schoelkopf, R. J. - Devoret, M. H.: Dispersive measurements of superconducting qubit coherence with a fast latching readout. In: *Physical Review B*, Vol. 73, No. 5, 2006, Art. No. 054510 - SCI ; SCOPUS
- [o1] 2007 Kiyko, A. S. - Omelyanchouk, A. N. - Shevchenko, S. N.: Dynamic behavior of a superconducting flux qubit excited by a series of electromagnetic pulses. In: *Low Temperature Physics*, Vol. 33, No. 12, 2007, s. 1015-1018 - SCI ; SCOPUS
- [o1] 2007 Lee, J. C. - Oliver, W. D. - Berggren, K. K. - Orlando, T. P.: Nonlinear resonant behavior of a dispersive readout circuit for a superconducting flux qubit. In: *Physical Review B*, Vol. 75, No. 14, 2007, Art. No. 144505 - SCI ; SCOPUS
- [o1] 2007 Tornberg, L. - Johansson, G.: Dispersive charge and flux qubit readout as a quantum measurement process. In: *Journal of Low Temperature Physics*, Vol. 146, No. 1-2, 2007, s. 227-252 - SCI
- [o1] 2007 Walter, J. - Tholen, E. - Haviland, D. B. - Sjostrand, J.: Pulse and hold strategy for switching current measurements. In: *Physical Review B*, Vol. 75, No. 9, 2007, Art. No. 094515 - SCI ; SCOPUS
- [o1] 2008 Clarke, J. - Wilhelm, F. K.: Superconducting quantum bits. In: *Nature*, Vol. 453, No. 7198, 2008, s. 1031-1042 - SCI ; SCOPUS
- [o1] 2008 Kiyko, A. S. - Omelyanchouk, A. N. - Shevchenko, S. N.: Probing entanglement in the system of coupled Josephson qubits. In: *Controllable Quantum States: Mesoscopic Superconductivity and Spintronics*. Singapore : World Scientific, 2008, S. 53-58 - SCI
- [o1] 2008 Shevchenko, S. N.: Impedance measurement technique for quantum systems. In: *European Physical Journal B*, Vol. 61, No. 2, 2008, s. 187-191 - SCI ; SCOPUS
- [o1] 2008 Zueco, D. - Hanggi, P. - Kohler, S.: Landau-Zener tunnelling in dissipative circuit QED. In: *New Journal of Physics*, Vol. 10, 2008, Art. No. 115012 - SCI ; SCOPUS
- [o1] 2009 Bianchetti, R. - Filipp, S. - Baur, M. - Fink, J. M. - Goepl, M. - Leek, P. J. - Steffen, L. - Blais, A. - Wallraff, A.: Dynamics of dispersive single-qubit readout in circuit quantum electrodynamics. In: *Physical Review A*, Vol. 80, No. 4, 2009, Art. No. 043840 - SCI ; SCOPUS
- [o1] 2009 Chirolli, L. - Burkard, G.: Quantum nondemolition measurements of a qubit coupled to a harmonic oscillator. In: *Physical Review B*, Vol. 80, No. 18, 2009, Art. No. 184509 - SCI ; SCOPUS
- [o1] 2009 Reuther, G. M. - Zueco, D. - Haenggi, P. - Kohler, S.: Time-Resolved Measurement of a Charge Qubit. In: *Physical Review Letters*, Vol. 102, No. 3, 2009, Art. No. 033602 - SCI ; SCOPUS
- [o1] 2009 Zueco, D. - Reuther, G. M. - Kohler, S. - Haenggi, P.: Qubit-oscillator dynamics in the dispersive regime: Analytical theory beyond the rotating-wave approximation. In: *Physical Review A*, Vol. 80, No. 3, 2009, Art. No. 033846 - SCI ; SCOPUS
- [o1] 2011 Reuther, G. M. - Zueco, D. - Haenggi, P. - Kohler, S.: Monitoring entanglement evolution and collective quantum dynamics. In: *Physical Review B*, Vol. 83, No. 1, 2011, Art. No. 014303 - SCI ; SCOPUS
- [o1] 2011 Reuther, G. M. - Zueco, D. - Haenggi, P. - Kohler, S.: Time-resolved qubit readout via nonlinear Josephson inductance. In: *New Journal of Physics*, Vol. 13, 2011, Art. No. 093022 - SCI ; SCOPUS
- [o1] 2011 Zagoskin, A. M.: Quantum engineering: Theory and design of quantum coherent structures. In: *Quantum Engineering: Theory and Design of Quantum Coherent Structures*, 2011, s. 1-332 - SCOPUS
- [o1] 2012 Reuther, G. M. - Haenggi, P. - Kohler, S.: Non-Markovian qubit decoherence during dispersive readout. In: *Physical Review A*, Vol. 85, No. 6, 2012, Art. No. 062123 - SCI ; SCOPUS
- [o1] 2014 Korolev, A. M. - Shulga, V. M. - Tarapov, S. I.: Extra-low power consumption amplifier based on HEMT in unsaturated mode for use at subkelvin ambient temperatures. In: *Cryogenics*, Vol. 60, 2014, s. 76-79 - SCI ; SCOPUS
- [o1] 2014 Whittaker, J. D. - da Silva, F. C. S. - Allman, M. S. - Lecocq, F. - Cicak, K. - Sirois, A. J. - Teufel, J. D. - Aumentado, J. - Simmonds, R. W.: Tunable-cavity QED with phase qubits. In: *Physical Review B*, Vol. 90, No. 2, 2014, Art.No. 024513 - SCI ; SCOPUS

- [o1] 2015 Korolev, A. M. - Shulga, V. M. - Gritsenko, I. A. - Sheshin, G. A.: PHEMT as a circuit element for high impedance nanopower amplifiers for ultra-low temperatures application. In: Cryogenics, Vol. 67, 2015, s. 31-35 - SCI ; SCOPUS
- ADC45 Il'ichev, Evgeni - Smirnov, A. Yu - Grajcar, Miroslav [UKOMFKEF] - Izmalkov, A. - Born, Detlef - Oukhanski, N. - Wagner, Thomas - Krech, Wolfram - Meyer, Hans-Georg - Zagoskin, Alexandre M.: Radio-frequency method investigation of quantum properties of superconducting structures  
Lit. 38 zázň., 10 obr.  
In: Low Temperature Physics. - Vol. 30, No. 7-8 (2004), s. 620-628  
*Indikátor časopisu:*  
IF (JCR) 2004=0,859  
POZNÁMKA:  
V ukrajinčine - Fizika nizzkikh temperatur. - Vol. 30, No. 7-8 (2004), s. 823-833  
*Ohlasy (8):*  
[o1] 2005 Ojanen, T. - Heikkila, T. T.: State-dependent impedance of a strongly coupled oscillator-qubit system. In: Physical Review B, Vol. 72, No. 5, 2005, Art. No. 054502 - SCI  
[o1] 2005 Shevchenko, S. N. - Kiyko, A. S. - Omelyanchouk, A. N. - Krech, W.: Dynamic behavior of Josephson-junction qubits: crossover between Rabi oscillations and Landau-Zener transitions. In: Low Temperature Physics, Vol. 31, No. 7, 2005, s. 569-576 - SCI ; SCOPUS  
[o1] 2007 Greenberg, Y. S.: Low-frequency Rabi spectroscopy of dissipative two-level systems: Dressed-state approach. In: Physical Review B, Vol. 76, No. 10, 2007, Art. No. 104520 - SCI ; SCOPUS  
[o1] 2007 Savelev, S. - Rakhmanov, A. L. - Hu, X. - Kasumov, A. - Nori, F.: Quantum electromechanics: Quantum tunneling near resonance and qubits from buckling nanoscale bars. In: Physical Review B, Vol. 75, No. 16, 2007, Art. No. 165417 - SCI; SCOPUS  
[o1] 2008 Shevchenko, S. N.: Impedance measurement technique for quantum systems. In: European Physical Journal B, Vol. 61, No. 2, 2008, s. 187-191 - SCI ; SCOPUS  
[o1] 2008 Shevchenko, S. N. - Temchenko, E. A.: Theoretical study of the resonant excitations in coupled Josephson-junction qubits. In: Journal of Physics Conference Series, Vol. 129, 2008, Art. No. 012035 - SCOPUS  
[o1] 2012 Shnyrkov, V. I. - Soroka, A. A. - Turutanov, O. G.: Quantum superposition of three macroscopic states and superconducting qubit detector. In: Physical Review B, Vol. 85, No. 22, 2012, Art. No. 224512 - SCI  
[o1] 2013 Kakuyanagi, K. - Kagei, S. - Koibuchi, R. - Saito, S. - Lupascu, A. - Semba, K. - Nakano, H.: Experimental analysis of the measurement strength dependence of superconducting qubit readout using a Josephson bifurcation readout method. In: New Journal of Physics, Vol. 15, 2013, Art. No. 043028 - SCI
- ADC46 Izmalkov, A. - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni - Wagner, Thomas - Meyer, Hans-Georg - Smirnov, A. Yu - Amin, M. H. S. - van den Brink, Alec Maassen - Zagoskin, Alexandre M.: Evidence for entangled states of two coupled flux qubits  
Lit. 24 zázň., 4 obr.  
In: Physical Review Letters. - Vol. 93, No. 3 (2004), Art. No. 037003  
*Indikátor časopisu:*  
IF (JCR) 2004=7,218  
POZNÁMKA:  
Vyšlo aj ako preprint - arXiv.org: Condensed Matter. - No. cond-mat/0312332v1 (2003), s. 1-4  
Vydavateľská poznámka Publisher's Note: Evidence for Entangled States of Two Coupled Flux Qubits [Physical Review Letters, Vol. 93 (2004), Art. No. 037003] - Physical Review Letters. - Vol. 93 (2004), Art. No. 049902  
*Ohlasy (101):*  
[o1] 2004 Blais, A. - Huang, R. S. - Wallraff, A. - Girvin, S. M. - Schoelkopf, R. J.: Cavity quantum electrodynamics for superconducting electrical circuits: An architecture for quantum computation. In: Physical Review A, Vol. 69, No. 6, 2004, Art. No. 062320 - SCI  
[o1] 2004 Lantz, J. - Wallquist, M. - Shumeiko, V. S. - Wendin, G.: Josephson junction qubit network with current-controlled interaction. In: Physical Review B, Vol. 70, No. 14, 2004, Art. No. 140507 - SCI ; SCOPUS  
[o1] 2004 Ralph, J. F. - Clark, T. D. - Spiller, T. P. - Munro, W. J.: Entanglement generation in persistent current qubits. In: Physical Review B, Vol. 70, No. 14, 2004, Art. No. 144527 - SCI



- [o1] 2005 Aristov, V. V. - Nikulov, A. V.: Chain of superconducting loops as a possible quantum register. In: Quantum Informatics : Proceedings of SPIE, Vol. 5833. Bellingham : SPIE, 2005, S. 145-156 - SCI ; SCOPUS
- [o1] 2005 Dziarmaga, J.: Fast partial decoherence of a superconducting flux qubit in a spin bath. In: Physical Review B, Vol. 71, No. 5, 2005, Art. No. 054516 - SCI
- [o1] 2005 Gunnarsson, D.: The single cooper pair box - A quantum-mechanical electronic circuit. Goteborg : Chalmers University of Technology, 2005, 72 s. - SCOPUS
- [o1] 2005 Johansson, J. - Saito, S. - Kutsuzawa, T. - Meno, T. - Semba, K. - Takayanagi, H.: Coherent control of coupled macroscopic quantum systems. In: International Quantum Electronics Conference Proceedings. New York : IEEE, 2005, S.509-510 - SCOPUS
- [o1] 2005 Johnson, P. R. - Parsons, W. T. - Strauch, F. W. - Anderson, J. R. - Dragt, A. J. - Lobb, C. J. - Wellstood, F. C.: Macroscopic tunnel splittings in superconducting phase qubits. In: Physical Review Letters, Vol. 94, No. 18, 2005, Art. No. 187004 - SCI ; SCOPUS
- [o1] 2005 Korotkov, A. N.: Simple quadrature-based quantum feedback of a solid-state qubit. In: Noise and Information in Nanoelectronics, Sensors, and Standards : Proceedings of SPIE, Vol. 5846. Bellingham : SPIE, 2005, S. 46-56 - SCI ; SCOPUS
- [o1] 2005 Liu, Y. X. - Wei, L. F. - Nori, F.: Tomographic measurements on superconducting qubit states. In: Physical Review B, Vol. 72, No. 1, 2005, Art. No. 014547 - SCI ; SCOPUS
- [o1] 2005 Mao, W. J. - Averin, D. V. - Plastina, F. - Fazio, R.: Continuous measurements of coherent quantum oscillations in two qubits. In: Physical Review B, Vol. 71, No. 8, 2005, Art. No. 085320 - SCI ; SCOPUS
- [o1] 2005 Shimazu, Y.: Asymmetric flux bias for coupled qubits to observe entangled states. In: Realizing Controllable Quantum States. Singapore : World Scientific, 2005, S. 263-268 - SCI
- [o1] 2005 Shimazu, Y. - Wada, Y. - Niizeki, T. - Yamamoto, Y. - Yoshida, T. - Wada, Z. - Yokoyama, T.: Observation of excitation in asymmetric flux qubits coupled inductively. In: Physica E, Vol. 29, No. 3-4, 2005, s. 679-683 - SCI ; SCOPUS
- [o1] 2005 Wallquist, M. - Lantz, J. - Shumeiko, V. S. - Wendin, G.: Superconducting qubit network with controllable nearest-neighbour coupling. In: New Journal of Physics, Vol. 7, 2005, Art. No. 178 - SCI ; SCOPUS
- [o1] 2005 Xu, H. Z. - Strauch, F. W. - Dutta, S. K. - Johnson, P. R. - Ramos, R. C. - Berkley, A. J. - Paik, H. - Anderson, J. R. - Dragt, A. J. - Lobb, C. J. - Wellstood, F. C.: Spectroscopy of three-particle entanglement in a macroscopic superconducting circuit. In: Physical Review Letters, Vol. 94, No. 2, 2005, Art. No. 027003 - SCI ; SCOPUS
- [o1] 2005 Yamashita, T. - Tanikawa, K. - Takahashi, S. - Maekawa, S.: Superconducting pi qubit with a ferromagnetic Josephson junction. In: Physical Review Letters, Vol. 95, No. 9, 2005, Art. No. 097001 - SCI ; SCOPUS
- [o1] 2005 You, J. Q. - Nakamura, Y. - Nori, F.: Fast two-bit operations in inductively coupled flux qubits. In: Physical Review B, Vol. 71, No. 2, 2005, Art. No. 024532 - SCI ; SCOPUS
- [o1] 2005 You, J. Q. - Nori, F.: Superconducting circuits and quantum information. In: Physics Today, Vol. 58, No. 11, 2005, s. 42-47 - SCI ; SCOPUS
- [o1] 2005 Zhou, X. X. - Mizel, A.: Quantum manipulation and simulation using Josephson junction arrays. In: Physica C, Vol. 432, No. 1-2, 2005, s. 59-64 - SCI ; SCOPUS
- [o1] 2006 Ashhab, S. - Matsuo, S. - Hatakenaka, N. - Nori, F.: Generalized switchable coupling for superconducting qubits using double resonance. In: Physical Review B, Vol. 74, Vol. 18, 2006, Art. No. 184504 - SCI ; SCOPUS
- [o1] 2006 Hime, T. - Reichardt, P. A. - Plourde, B. L. T. - Robertson, T. L. - Wu, C. E. - Ustinov, A. V. - Clarke, J.: Solid-state qubits with current-controlled coupling. In: Science, Vol. 314, No. 5804, 2006, s. 1427-1429 - SCI ; SCOPUS
- [o1] 2006 Hutter, C. - Shnirman, A. - Makhlin, Y. - Schon, G.: Tunable coupling of qubits: Nonadiabatic corrections. In: Europhysics Letters, Vol. 74, No. 6, 2006, s. 1088-1094 - SCI ; SCOPUS
- [o1] 2006 Kim, M. D.: Controllable coupling in phase-coupled flux qubits. In: Physical Review B, Vol. 74, No. 18, 2006, Art. No. 184501 - SCI
- [o1] 2006 Koch, R. H. - Keefe, G. A. - Milliken, F. P. - Rozen, J. R. - Tsuei, C. C. - Kirtley, J. R. - DiVincenzo, D. P.: Experimental demonstration of an oscillator stabilized Josephson flux qubit. In: Physical Review Letters, Vol. 96, No.12, 2006, Art. No. 127001 - SCI ; SCOPUS
- [o1] 2006 Liu, Y. X. - Wei, L. F. - Tsai, J. S. - Nori, F.: Controllable coupling between flux qubits. In: Physical Review Letters, Vol. 96, No. 6, 2006, Art. No. 067003 - SCI ; SCOPUS

- [o1] 2006 Liu, Y. X. - Sun, C. P. - Nori, F.: Scalable superconducting qubit circuits using dressed states. In: Physical Review A, Vol. 74, No. 5, 2006, Art. No. 052321 - SCI ; SCOPUS
- [o1] 2006 Migliore, R. - Yuasa, K. - Nakazato, H. - Messina, A.: Generation of multipartite entangled states in Josephson architectures. In: Physical Review B, Vol. 74, No. 10, 2006, Art. No. 104503 - SCI ; SCOPUS
- [o1] 2006 Peng, Z. H. - Zhang, M. J. - Zheng, D. N.: Detection of geometric phases in flux qubits with coherent pulses. In: Physical Review B, Vol. 73, No. 2, 2006, Art. No. 020502 - SCI ; SCOPUS
- [o1] 2006 Tanamoto, T. - Liu, Y. X. - Fujita, S. - Hu, X. - Nori, F.: Producing cluster states in charge qubits and flux qubits. In: Physical Review Letters, Vol. 97, No. 23, 2006, Art. No. 230501 - SCI ; SCOPUS
- [o1] 2006 Wallquist, M. - Shumeiko, V. S. - Wendin, G.: Selective coupling of superconducting charge qubits mediated by a tunable stripline cavity. In: Physical Review B, Vol. 74, No. 22, 2006, Art. No. 224506 - SCI ; SCOPUS
- [o1] 2006 Yamashita, T. - Takahashi, S. - Maekawa, S.: Superconducting pi qubit with three Josephson junctions. In: Applied Physics Letters, Vol. 88, No. 13, 2006, Art. No. 132501 - SCI ; SCOPUS
- [o1] 2007 Ashhab, S. - Nori, F.: Switchable coupling for superconducting qubits using double resonance in the presence of crosstalk. In: Physical Review B, Vol. 76, No. 13, 2007, Art. No. 132513 - SCI ; SCOPUS
- [o1] 2007 He, X. L. - You, J. Q. - Liu, Y. X. - Wei, L. F. - Nori, F.: Switchable coupling between charge and flux qubits. In: Physical Review B, Vol. 76, No. 2, 2007, Art. No. 024517 - SCI ; SCOPUS
- [o1] 2007 Huo, W. Y. - Long, G. L.: Generating quantum entanglement in scalable superconducting charge qubits. In: International Journal of Quantum Information, Vol. 5, No. 6, 2007, s. 829-836 - SCI ; SCOPUS
- [o1] 2007 Hutter, C. - Makhlin, Y. - Shnirman, A. - Schon, G.: Stability of longitudinal coupling for Josephson charge qubits. In: Physical Review B, Vol. 76, No. 2, 2007, Art. No. 024512 - SCI ; SCOPUS
- [o1] 2007 Chiarello, F.: Double SQUID tunable flux qubit manipulated by fast pulses: operation requirements, dissipation and decoherence. In: European Physical Journal B, Vol. 55, No. 1, 2007, s. 7-11 - SCI
- [o1] 2007 Chiarello, F. - Carelli, P. - Castellano, M. G. - Cirillo, M. - Cosmelli, C. - Frossati, G. - Gronbech-Jensen, N. - Mattioli, F. - Poletto, S. - Torrioli, G. - de Waard A: Potential characterization of a double SQUID device for quantum computing experiments. In: IEEE Transactions on Applied Superconductivity, Vol. 17, No. 2, 2007, s. 124-127 - SCI ; SCOPUS
- [o1] 2007 Kim, M. D. - Cho, S. Y.: Entanglement and Bell states in superconducting flux qubits. In: Physical Review B, Vol. 75, No. 13, 2007, Art. No. 134514 - SCI ; SCOPUS
- [o1] 2007 Liu, Y. X. - Wei, L. F. - Johansson, J. R. - Tsai, J. S. - Nori, F.: Superconducting qubits can be coupled and addressed as trapped ions. In: Physical Review B, Vol. 76, No. 14, 2007, Art. No. 144518 - SCI ; SCOPUS
- [o1] 2007 Matsuo, S. - Furuta, K. - Fujii, T. - Nagai, K. - Hatakenaka, N.: Fluxon-based gate controls of capacitively coupled flux-based-phase qubits. In: Applied Physics Letters, Vol. 91, No. 9, 2007, Art. No. 093103 - SCI ; SCOPUS
- [o1] 2007 Matsuo, S. - Ashhab, S. - Fujii, T. - Nori, F. - Nagai, K. - Hatakenaka, N.: Generation of macroscopic entangled states in coupled superconducting phase qubits. In: Journal of the Physical Society of Japan, Vol. 76, No. 5, 2007, Art.No. 054802 - SCI ; SCOPUS
- [o1] 2007 Migliore, R. - Messina, A.: Generation of entangled states of two distant cavity modes via Josephson junction based devices. In: International Journal of Quantum Information, Vol. 5, No. 1-2, 2007, s. 83-88 - SCI ; SCOPUS
- [o1] 2007 Migliore, R. - Yuasa, K. - Guccione, M. - Nakazato, H. - Messina, A.: Diffusion and transfer of entanglement in an array of inductively coupled flux qubits. In: Physical Review B, Vol. 76, No. 5, 2007, Art. no. 052501 - SCI ; SCOPUS
- [o1] 2007 Migliore, R. - Messina, A. - Sanchez-Soto, L. L.: Step-by-step control of the dynamics of a superconducting QED-like system. In: Open Systems and Information Dynamics, Vol. 14, No. 2, 2007, s. 197-202 - SCI ; SCOPUS
- [o1] 2007 Wendin, G. - Shumeiko, V. S.: Quantum bits with Josephson junctions. In: Low Temperature Physics, Vol. 33, No. 9, 2007, s. 724-744 - SCI ; SCOPUS
- [o1] 2008 Aristov, V. V. - Nikulov, A. V.: Quantum computation and hidden variables. In: Quantum Informatics 2008 : Proceedings of SPIE, Vol. 7023. Bellingham : SPIE, 2008, Art. No. 702302 - SCI ; SCOPUS
- [o1] 2008 Ashhab, S. - Niskanen, A. O. - Harrabi, K. - Nakamura, Y. - Picot, T. - De Groot, P. C. - Harmans, C. J. P. M. - Mooij, J. E. - Nori, F.: Interqubit coupling mediated by a high-excitation-energy quantum object. In: Physical Review B, Vol. 77, No. 1, 2008, Art. No. 014510 - SCI ; SCOPUS

- [o1] 2008 Berns, D. M. - Rudner, M. S. - Valenzuela, S. O. - Berggren, K. K. - Oliver, W. D. - Levitov, L. S. - Orlando, T. P.: Amplitude spectroscopy of a solid-state artificial atom. In: *Nature*, Vol. 455, No. 7209, 2008, s. 51-57 - SCI ; SCOPUS
- [o1] 2008 Cao, H. J. - Hu, L.: Detecting the chirality for coupled quantum dots. In: *Physics Letters A*, Vol. 372, No. 17, 2008, s. 2971-2975 - SCI ; SCOPUS
- [o1] 2008 Feng, Z. B. - Zhang, X. D.: Quantum computing in decoherence-free subspaces with coupled charge qubits. In: *Physica E*, Vol. 40, No. 4, 2008, s. 878-882 - SCI ; SCOPUS
- [o1] 2008 Huo, W. Y. - Long, G. L.: Entanglement and squeezing in solid-state circuits. In: *New Journal of Physics*, Vol. 40, No. 4, 2008, s. 878-882 - SCI
- [o1] 2008 Chen, M. Y. - Zhang, W. M.: Entangled coherent states generation in two superconducting LC circuits. In: *Solid-State Quantum Computing : AIP Conference Proceedings*, Vol. 1074. Melville : AIP, 2008, S. 38-41 - SCI
- [o1] 2008 Cho, S. Y. - Kim, M. D.: Macroscopic many-qubit interactions in superconducting flux qubits. In: *Physical Review B*, Vol. 77, No. 21, 2008, Art. No. 212506 - SCI ; SCOPUS
- [o1] 2008 Kim, M. D. - Cho, S.Y.: Macroscopic Greenberger-Horne-Zeilinger and W states in flux qubits. In: *Physical Review B*, Vol. 77, No. 10, 2008, Art. No. 100508 - SCI ; SCOPUS
- [o1] 2008 Kim, M. D.: Phase-coupled flux qubits: cnot operation, controllable coupling and entanglement. In: *Controllable Quantum States: Mesoscopic Superconductivity and Spintronics*. Singapore : World Scientific, 2008, S. 91-96 - SCI
- [o1] 2008 Kiyko, A. S. - Omelyanchouk, A. N. - Shevchenko, S. N.: Probing entanglement in the system of coupled Josephson qubits. In: *Controllable Quantum States: Mesoscopic Superconductivity and Spintronics*. Singapore : World Scientific, 2008, S. 53-58 - SCI
- [o1] 2008 Migliore, R. - Messina, A.: Single and two-qubit dynamics in circuit QED architectures. In: *European Physical Journal Special Topics*, Vol. 159, No. 1, 2008, s. 101-111 - SCI ; SCOPUS
- [o1] 2008 Shevchenko, S. N.: Impedance measurement technique for quantum systems. In: *European Physical Journal B*, Vol. 61, No. 2, 2008, s. 187-191 - SCI ; SCOPUS
- [o1] 2008 Shi, Q. Q. - Cho, S. Y. - Li, B. - Kim, M. D.: Realizable spin models and entanglement dynamics in superconducting flux qubit systems. In: *Physical Review B*, Vol. 77, No. 10, 2008, Art. No. 104511 - SCI ; SCOPUS
- [o1] 2008 Takahashi, S. - Maekawa, S.: Spin current in metals and superconductors. In: *Journal of the Physical Society of Japan*, Vol. 77, No. 3, 2008, Art. No. 031009 - SCI ; SCOPUS
- [o1] 2008 Tanamoto, T. - Maruyama, K. - Liu, Y. X. - Hu, X. - Nori, F.: Efficient purification protocols using iSWAP gates in solid-state qubits. In: *Physical Review A*, Vol. 78, No. 6, 2008, Art. No. 062313 - SCI ; SCOPUS
- [o1] 2008 Zipper, E. - Kurpas, M. - Dajka, J. - Kus, M.: Entanglement of distant flux qubits mediated by non-classical electromagnetic field. In: *Journal of Physics-Condensed Matter*, Vol. 20, No. 27, 2008, Art. No. 275219 - SCI ; SCOPUS
- [o1] 2009 Chen, M. Y. - Tu, M. W. Y. - Zhang, W. M.: Entangling two superconducting LC coherent modes via a superconducting flux qubit. In: *Physical Review B*, Vol. 80, No. 21, 2009, Art. No. 214538 - SCI ; SCOPUS
- [o1] 2009 Kim, M. D. - Cho, S. Y.: Macroscopic entangled states in superconducting flux qubits. In: *25th International Conference on Low Temperature Physics (Lt25), Part 2 : Journal of Physics Conference Series*, Vol. 150. Bristol : IOP Publishing, 2009, Art. No. 022038 - CPCI-S ; SCOPUS
- [o1] 2009 Matsuo, S. - Furuta, K. - Fujii, T. - Nagai, K. - Hatakenaka, N.: Theory of soliton-based control of coupled superconducting phase qubits. In: *Solid State Sciences*, Vol. 11, No. 5, 2009, s. 942-944 - SCI ; SCOPUS
- [o1] 2009 Paladino, E. - D'Arrigo, A. - Mastellone, A. - Falci, G.: Broadband noise decoherence in solid-state complex architectures. In: *Physica Scripta*, Vol. T137, 2009, Art. No. 014017 - SCI ; SCOPUS
- [o1] 2009 Pashkin, Y. A. - Astafiev, O. - Yamamoto, T. - Nakamura, Y. - Tsai, J. S.: Josephson charge qubits: a brief review. In: *Quantum Information Processing*, Vol. 8, No. 2-3, 2009, s. 55-80 - SCI ; SCOPUS
- [o1] 2009 Wang, Y. D. - Kemp, A. - Semba, K.: Coupling superconducting flux qubits at optimal point via dynamic decoupling with the quantum bus. In: *Physical Review B*, Vol. 79, No. 2, 2009, Art. No. 024502 - SCI ; SCOPUS
- [o1] 2009 Xia, K. - Macovei, M. - Evers, J. - Keitel, C. H.: Robust coherent preparation of entangled states of two coupled flux qubits via dynamic control of the transition frequencies. In: *Physical Review B*, Vol. 79, No. 2, 2009, Art. No. 024519 - SCI ; SCOPUS

[o1] 2009 Yuan, H. - Zeier, R. - Khaneja, N. - Lloyd, S.: Constructing two-qubit gates with minimal couplings. In: *Physical Review A*, Vol. 79, No. 4, 2009, Art. No. 042309 - SCI ; SCOPUS

[o1] 2009 Zhang, J. - Liu, Y. X. - Li, C. W. - Tarn, T. J. - Nori, F.: Generating stationary entangled states in superconducting qubits. In: *Physical Review A*, Vol. 79, No. 5, 2009, Art. No. 052308 - SCI ; SCOPUS

[o1] 2010 Bellomo, B. - Compagno, G. - D'Arrigo, A. - Falci, G. - Lo Franco, R. - Paladino, E.: Entanglement degradation in the solid state: Interplay of adiabatic and quantum noise. In: *Physical Review A*, Vol. 81, No. 6, 2010, Art. No. 062309- SCI ; SCOPUS

[o1] 2010 Bezryadin, A. - Goldbart, P. M.: Superconducting nanowires fabricated using molecular templates. In: *Advanced Materials*, Vol. 22, No. 10, 2010, s. 1111-1121 - SCI ; SCOPUS

[o1] 2010 Chen, A. M. - Cho, S. Y. - Su, Y. H. - Choi, T.: Relation between quantum entanglement and the berry phase in systems of two interacting qubits. In: *Journal of the Korean Physical Society*, Vol. 57, No. 4, 2010, s. 696-703 - SCI ; SCOPUS

[o1] 2010 Clerk, A. A. - Devoret, M. H. - Girvin, S. M. - Marquardt, F. - Schoelkopf, R. J.: Introduction to quantum noise, measurement, and amplification. In: *Reviews of Modern Physics*, Vol. 82, No. 2, 2010, s. 1155-1208 - SCI ; SCOPUS

[o1] 2010 Gel'man, A. I. - Satanin, A. M.: Quantum jumps in Landau-Zener transitions in the dissipative dynamics of a superconducting qubit. In: *JETP Letters*, Vol. 91, No. 10, 2010, s. 535-540 - SCI ; SCOPUS

[o1] 2010 Gel'man, A. I. - Satanin, A. M.: Relaxation dynamics of superconducting Josephson qubits in a strong alternating field. In: *Physics of the Solid State*, Vol. 52, No. 11, 2010, s. 2234-2240 - SCI ; SCOPUS

[o1] 2010 Ivanov, B. A. - Galkina, E. G. - Galkin, A. Y.: Quantum dynamics of vortices in small magnetic particles. In: *Low Temperature Physics*, Vol. 36, No. 8-9, 2010, s. 747-751 - SCI

[o1] 2010 Lin, Q. - He, B.: Efficient generation of universal two-dimensional cluster states with hybrid systems. In: *Physical Review A*, Vol. 82, No. 2, 2010, Art. No. 022331 - SCI ; SCOPUS

[o1] 2011 Nikulov, A. V.: Superposition of Flux-Qubit States and the Law of Angular Momentum Conservation. In: *Physical Properties of Nanosystems : Nato Security through Science Series B: Physics and Biophysics*. Dordrecht : Springer, 2011, S.269-279 - CPCI-S ; SCOPUS

[o1] 2011 Paladino, E. - D'Arrigo, A. - Mastellone, A. - Falci, G.: Decoherence times of universal two-qubit gates in the presence of broad-band noise. In: *New Journal of Physics*, Vol. 13, 2011, Art. No. 093037 - SCI ; SCOPUS

[o1] 2011 Shi, Z. G. - Chen, X. W. - Wen, W. - Xiang, S. H. - Song, K. H.: Entanglement dynamics of strongly-AC-driven superconducting qubits in circuit QED. In: *Communications in Theoretical Physics*, Vol. 56, No. 2, 2011, s. 317-321 - SCI ; SCOPUS

[o1] 2011 Tian, L. J. - Qin, L. G. - Zhang, H. B.: Entanglement of two-superconducting-qubit system coupled with a fixed capacitor. In: *Chinese Physics Letters*, Vol. 28, No. 5, 2011, Art. No. 050308 - SCI ; SCOPUS

[o1] 2011 Wang, H. F. - Jiang, X. X. - Zhang, S. - Yeon, K. H.: Efficient quantum circuit for implementing discrete quantum Fourier transform in solid-state qubits. In: *Journal of Physics B: Atomic, Molecular and Optical Physics*, Vol. 44, No.11, 2011, Art. No. 115502 - SCI ; SCOPUS

[o1] 2011 Xia, K. - Macovei, M. - Evers, J.: Stationary entanglement in strongly coupled qubits. In: *Physical Review B*, Vol. 84, No. 18, 2011, Art. No. 184510 - SCI ; SCOPUS

[o1] 2012 Chiarello, F. - Paladino, E. - Castellano, M. G. - Cosmelli, C. - D'Arrigo, A. - Torrioli, G. - Falci, G.: Superconducting qubit manipulated by fast pulses: experimental observation of distinct decoherence regimes. In: *New Journal of Physics*, Vol. 14, 2012, Art. No. 023031 - SCI ; SCOPUS

[o1] 2012 D'Arrigo, A. - Paladino, E.: Optimal operating conditions of an entangling two-transmon gate. In: *New Journal of Physics*, Vol. 14, 2012, Art. No. 053035 - SCI ; SCOPUS

[o1] 2012 De Groot, P. C. - Ashhab, S. - Lupascu, A. - DiCarlo, L. - Nori, F. - Harmans, C. J. P. M. - Mooij, J. E.: Selective darkening of degenerate transitions for implementing quantum controlled-NOT gates. In: *New Journal of Physics*, Vol.14, 2012, Art. No. 073038 - SCI ; SCOPUS

[o1] 2012 Denisenko, M. V. - Satanin, A. M.: Multiphoton resonances in a system of interacting josephson qubits. In: *Journal of Surface Investigation-X-Ray Synchrotron and Neutron Techniques*, Vol. 6, No. 6, 2012, s. 990-996 - SCI ; SCOPUS

[o1] 2012 Peng, Z. H. - Liu, Y. X. - Nakamura, Y. - Tsai, J. S.: Fast generation of multiparticle entangled state for flux qubits in a circle array of transmission line resonators with tunable coupling. In: *Physical Review B*, Vol. 85, No. 2,2012, Art. No. 024537 - SCI ; SCOPUS

[o1] 2012 Qiu, N. - Wang, S. C. - Kwek, L. C. - Wang, X. B.: Preparation and entanglement purification through two-step measurements. In: *Physical Review A*, Vol. 86, No. 1, 2012, Art. No. 012313 - SCI ; SCOPUS

- [o1] 2012 Satanin, A. M. - Denisenko, M. V. - Ashhab, S. - Nori, F.: Amplitude spectroscopy of two coupled qubits. In: Physical Review B, Vol. 85, No. 18, 2012, Art. No. 184524 - SCI ; SCOPUS
- [o1] 2012 Zhang, Y. Q. - He, Q. L. - Mu, Q. X. - Liu, J. C.: Preserving quantum correlations in two superconducting qubits by applying time-dependent magnetic fields. In: European Physical Journal D, Vol. 66, No. 8, 2012, Art. No. 210 - SCI ; SCOPUS
- [o1] 2013 Du, L. - Yu, Y. - Lan, D.: Optimal cooling of a driven artificial atom in dissipative environment. In: Low Temperature Physics, Vol. 39, No. 2, 2013, s. 111-119 - SCI ; SCOPUS
- [o1] 2013 Du, L. - Yu, Y. - Lan, D.: Optimal cooling of a driven artificial atom in dissipative environment. In: Fizika Nizkikh Temperatur, Vol. 39, No. 2, 2013, s. 150-161 - SCOPUS
- [o1] 2013 Kapit, E.: Quantum simulation architecture for lattice bosons in arbitrary, tunable, external gauge fields. In: Physical Review A, Vol. 87, No. 6, 2013, Art. No. 062336 - SCI ; SCOPUS
- [o1] 2013 Liao, Q. - Nie, W. - Zhou, N. - Liu, Y. - Ahmad, M. A.: The entanglement dynamics of two atoms in a double two-photon Jaynes-Cummings model. In: Chinese Journal of Physics, Vol. 51, No. 2, 2013, s. 404-411 - SCI ; SCOPUS
- [o1] 2013 Soroka, A. A. - Shnyrkov, V. I.: A tunable coupler with scs quantum point contact to mediate strong interaction between flux qubits. In: Journal of Low Temperature Physics, Vol. 172, No. 3-4, 2013, s. 212-225 - SCI ; SCOPUS
- [o1] 2014 D'Arrigo, A. - Falci, G. - Paladino, E.: Dynamical decoupling of random telegraph noise in a two-qubit gate. In: International Journal of Quantum Information, Vol. 12, No. 2, 2014, Art. No. 1461008 - SCI ; SCOPUS
- [o1] 2014 Falci, G. - Paladino, E.: The physics of quantum computation. In: International Journal of Quantum Information, Vol. 12, No. 4, 2014, Art. No. 1430003 - SCI ; SCOPUS
- [o1] 2014 Huang, S. Y. - Goan, H. S.: Optimal control for fast and high-fidelity quantum gates in coupled superconducting flux qubits. In: Physical Review A, Vol. 90, No. 1, 2014, Art. No. 012318 - SCI ; SCOPUS
- ADC47 Izmalkov, A. - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni - Oukhanski, N. - Wagner, Thomas - Meyer, Hans-Georg - Krech, Wolfram - Amin, M. H. S. - van den Brink, Alec Maassen - Zagoskin, Alexandre M.: Observation of macroscopic Landau-Zener transition in a superconducting device  
Lit. 15 zázň., 4 obr.  
In: Europhysics Letters. - Vol. 65, No. 6 (2004), s. 844-849  
*Indikátor časopisu:*  
IF (JCR) 2004=2,120  
*Ohlasy (36):*
- [o1] 2005 Lee, J. C. - Oliver, W. D. - Orlando, T. P. - Berggren, K. K.: Resonant readout of a persistent current qubit. In: IEEE Transactions on Applied Superconductivity, Vol. 15, No. 2, Part 1, 2005, s. 841-844 - SCI ; SCOPUS
- [o1] 2005 Smirnov, A. Y.: A method for continuous monitoring of quantum tunneling in a molecular double dot. In: Physical E, Vol. 26, No. 1-4, 2005, s. 297-301 - SCI ; SCOPUS
- [o1] 2005 Wubs, M. - Saito, K. - Kohler, S. - Kayanuma, Y. - Hanggi, P.: Landau-Zener transitions in qubits controlled by electromagnetic fields. In: New Journal of Physics, Vol. 7, 2005, Art. No. 218 - SCI ; SCOPUS
- [o1] 2006 Ashhab, S. - Johansson, J. R. - Nori, F.: Decoherence in a scalable adiabatic quantum computer. In: Physical Review A, Vol. 74, No. 5, 2006, Art. No. 052330 - SCI ; SCOPUS
- [o1] 2006 Berns, D. M. - Oliver, W. D. - Valenzuela, S. O. - Shytov, A. V. - Berggren, K. K. - Levitov, L. S. - Orlando, T. P.: Coherent quasiclassical dynamics of a persistent current qubit. In: Physical Review Letters, Vol. 97, No. 15, 2006, Art. No. 150502 - SCI ; SCOPUS
- [o1] 2006 Saito, K. - Wubs, M. - Kohler, S. - Hanggi, P. - Kayanuma, Y.: Quantum state preparation in circuit QED via Landau-Zener tunneling. In: Europhysics Letters, Vol. 76, No. 1, 2006, s. 22-28 - SCI ; SCOPUS
- [o1] 2006 Shevchenko, S. N. - Omelyanchouk, A. N.: Resonant effects in the strongly driven phase-biased Cooper-pair box. In: Low Temperature Physics, Vol. 32, No. 10, 2005, s. 973-975 - SCI ; SCOPUS
- [o1] 2006 Sillanpaa, M. - Lehtinen, T. - Paila, A. - Makhlin, Y. - Hakonen, P.: Continuous-time monitoring of Landau-Zener interference in a cooper-pair box. In: Physical Review Letters, Vol. 96, No. 18, 2006, Art. No. 187002 - SCI ; SCOPUS
- [o1] 2007 Haenggi, P. - Wubs, M. - Kohler, S. - Saito, K. - Kayanuma, Y.: Bell-state generation in circuit QED via Landau-Zener tunneling. In: Noise and Fluctuations : AIP Conference Proceedings, Vol. 922. Melville : AIP, 2007, S. 501-506 -SCI

- [o1] 2007 Pokrovsky, V. L. - Sun, D.: Fast quantum noise in the Landau-Zener transition. In: *Physical Review B*, Vol. 75, No. 21, 2007, Art. No. 214308 - SCI ; SCOPUS
- [o1] 2007 Saito, K. - Wubs, M. - Kohler, S. - Kayanuma, Y. - Hanggi, P.: Dissipative Landau-Zener transitions of a qubit: Bath-specific and universal behavior. In: *Physical Review B*, Vol. 75, No. 21, 2007, Art. No. 214308 - SCI ; SCOPUS
- [o1] 2007 Savelev, S. - Rakhmanov, A. L. - Hu, X. - Kasumov, A. - Nori, F.: Quantum electromechanics: Quantum tunneling near resonance and qubits from buckling nanoscale bars. In: *Physical Review B*, Vol. 75, No. 16, 2007, Art. No. 165417 - SCI ; SCOPUS
- [o1] 2007 Sillanpaa, M. - Lehtinen, T. - Paila, A. - Makhlin, Y. - Hakonen, P. J.: Landau-Zener interferometry in a Cooper-pair box. In: *Journal of Low Temperature Physics*, Vol. 146, No. 1-2, 2007, s. 253-262 - SCI ; SCOPUS
- [o1] 2007 Wilson, C. M. - Duty, T. - Persson, F. - Sandberg, M. - Johansson, G. - Delsing, P.: Coherence times of dressed states of a superconducting qubit under extreme driving. In: *Physical Review Letters*, Vol. 98, No. 25, 2007, Art. No.257003 - SCI ; SCOPUS
- [o1] 2007 Wubs, M. - Kohler, S. - Hanggi, P.: Entanglement creation in circuit QED via Landau-Zener sweeps. In: *Physica E*, Vol. 40, No. 1, 2007, s. 187-197 - SCI ; SCOPUS
- [o1] 2008 Berns, D. M. - Rudner, M. S. - Valenzuela, S. O. - Berggren, K. K. - Oliver, W. D. - Levitov, L. S. - Orlando, T. P.: Amplitude spectroscopy of a solid-state artificial atom. In: *Nature*, Vol. 455, No. 7209, 2008, s. 51-57 - SCI ; SCOPUS
- [o1] 2008 Rudner, M. S. - Shytov, A. V. - Levitov, L. S. - Berns, D. M. - Oliver, W. D. - Valenzuela, S. O. - Orlando, T. P.: Quantum phase tomography of a strongly driven qubit. In: *Physical Review Letters*, Vol. 101, No. 19, 2008, Art. No.190502 - SCI ; SCOPUS
- [o1] 2008 Wang, L. C. - Huang, X. L. - Yi, X. X.: Landau-Zener transition of a two-level system driven by spin chains near their critical points. In: *European Physical Journal D*, Vol. 46, No. 2, 2008, s. 345-349 - SCI ; SCOPUS
- [o1] 2009 Bylander, J. - Rudner, M. S. - Shytov, A. V. - Valenzuela, S. O. - Berns, D. M. - Berggren, K. K. - Levitov, L. S. - Oliver, W. D.: Pulse imaging and nonadiabatic control of solid-state artificial atoms. In: *Physical Review B*, Vol.80, No. 22, 2009, Art. No. 220506 - SCI
- [o1] 2009 Oliver, W. D. - Valenzuela, S. O.: Large-amplitude driving of a superconducting artificial atom. In: *Quantum Information Processing*, Vol. 8, No. 2-3, 2009, s. 261-281 - SCI ; SCOPUS
- [o1] 2009 Wen, X. - Yu, Y.: Landau-Zener interference in multilevel superconducting flux qubits driven by large-amplitude fields. In: *Physical Review B*, Vol. 79, No. 9, 2009, Art. No. 094529 - SCI ; SCOPUS
- [o1] 2010 Ferron, A. - Dominguez, D.: Intrinsic leakage of the Josephson flux qubit and breakdown of the two-level approximation for strong driving. In: *Physical Review B*, Vol. 81, No. 10, 2010, Art. No. 104505 - SCI ; SCOPUS
- [o1] 2010 Ferron, A. - Dominguez, D. - Jose Sanchez, M.: Large-amplitude harmonic driving of highly coherent flux qubits. In: *Physical Review B*, Vol. 82, No. 13, 2010, Art. No. 134522 - SCI ; SCOPUS
- [o1] 2010 Hausinger, J. - Grifoni, M.: Dissipative two-level system under strong ac driving: A combination of Floquet and Van Vleck perturbation theory. In: *Physical Review A*, Vol. 81, No. 2, 2010, Art. No. 022117 - SCI ; SCOPUS
- [o1] 2010 Petta, J. R. - Lu, H. - Gossard, A. C.: A coherent beam splitter for electronic spin states. In: *Science*, Vol. 327, No. 5966, 2010, s. 669-672 - SCI ; SCOPUS
- [o1] 2010 Shevchenko, S. N. - Ashhab, S. - Nori, F.: Landau-Zener-Stueckelberg interferometry. In: *Physics Reports-Review Section of Physics Letters*, Vol. 492, No. 1, 2010, s. 1-30 - SCI ; SCOPUS
- [o1] 2012 Satanin, A. M. - Denisenko, M. V. - Ashhab, S. - Nori, F.: Amplitude spectroscopy of two coupled qubits. In: *Physical Review B*, Vol. 85, No. 18, 2012, Art. No. 184524 - SCI ; SCOPUS
- [o1] 2012 Sun, Z. - Ma, J. - Wang, X. - Nori, F.: Photon-assisted Landau-Zener transition: Role of coherent superposition states. In: *Physical Review A*, Vol. 86, No. 1, 2012, Art. No. 012107 - SCI ; SCOPUS
- [o1] 2013 Hu, J. Y. - Mao, T. F. - Dou, F. Q. - Zhao, Q.: Application of the composite adiabatic passage technique in the Landau-Zener model with harmonic interaction modulation. In: *Acta Physica Sinica*, Vol. 62, No. 17, 2013, Art. No. 170303- SCI ; SCOPUS
- [o1] 2013 Li, T. - Sushkov, O. P.: One-dimensional spin-orbit interferometer. In: *Physical Review B*, Vol. 87, No. 16, 2013, Art. No. 165434 - SCI ; SCOPUS
- [o1] 2013 Liu, Y. - Liu, Y. - Gong, Q.: Control of Landau-Zener transition in NaI predissociation with chirped femtosecond laser pulses. In: *EPL*, Vol. 101, No. 6, 2013, Art. No. 68006 - SCI ; SCOPUS

- [o1] 2013 Quintana, C. M. - Petersson, K. D. - McFaul, L. W. - Srinivasan, S. J. - Houck, A. A. - Petta, J. R.: Cavity-mediated entanglement generation via Landau-Zener interferometry. In: *Physical Review Letters*, Vol. 110, No. 17, 2013, Art.No. 173603 - SCI ; SCOPUS
- [o1] 2014 Fai, L. C. - Diffo, J. T. - Ateuafack, M. E. - Tchoffo, M. - Fouokeng, G. C.: Dynamics of a Landau-Zener non-dissipative system with fluctuating energy levels. In: *Physica B: Condensed Matter*, Vol. 454, 2014, s. 157-164 - SCI ; SCOPUS
- [o1] 2014 Liu, Y. X. - Yang, C. X. - Sun, H. C. - Wang, X. B.: Coexistence of single- and multi-photon processes due to longitudinal couplings between superconducting flux qubits and external fields. In: *New Journal of Physics*, Vol. 16, 2014, Art. No. 015031 - SCI ; SCOPUS
- [o1] 2014 Wu, J. H. - Qi, R. - Ji, A. C. - Liu, W. M.: Quantum tunneling of ultracold atoms in optical traps. In: *Frontiers of Physics*, Vol. 9, No. 2, 2014, s. 137-152 - SCI ; SCOPUS
- [o1] 2015 Sun, G. - Wen, X. - Gong, M. - Zhang, D. W. - Yu, Y. - Zhu, S. L. - Chen, J. - Wu, P. - Han, S.: Observation of coherent oscillation in single-passage Landau-Zener transitions. In: *Scientific Reports*, Vol. 5, 2015, Art. No. 8463 -SCI ; SCOPUS

ADC48 Zagorskin, Alexandre M. - Grajcar, Miroslav [UKOMFKEF] - Omelyanchouk, A. N.: Selective amplification of a quantum state

Lit. 18 zázn., 5 obr.

In: *Physical Review A* - Vol. 70, No. 6 (2004), Art. No. 060301

*Indikátor časopisu:*

IF (JCR) 2004=2,902

POZNÁMKA:

Vyšlo aj ako preprint - lanl.arXiv.org : *Condensed Matter* - No. 0406770 (2004), s. 1-7

*Ohlasy (13):*

- [o1] 2005 Liu, Y. X. - You, J. Q. - Wei, L. F. - Sun, C. P. - Nori, F.: Optical selection rules and phase-dependent adiabatic state control in a superconducting quantum circuit. In: *Physical Review Letters*, Vol. 95, No. 8, 2005, Art. No.087001 - SCI
- [o1] 2005 Liu, Y. X. - Wei, L. F. - Nori, F.: Measuring the quality factor of a microwave cavity using superconducting qubit devices. In: *Physical Review A*, Vol. 72, No. 3, 2005, Art. No. 033818 - SCI ; SCOPUS
- [o1] 2006 Liu, Y. X. - Sun, C. P. - Nori, F.: Scalable superconducting qubit circuits using dressed states. In: *Physical Review A*, Vol. 74, No. 5, 2006, Art. No. 052321 - SCI
- [o1] 2007 Lindstrom, T. - Webster, C. H. - Healey, J. E. - Colclough, M. S. - Muirhead, C. M. - Tzalenchuk, A. Y.: Circuit QED with a flux qubit strongly coupled to a coplanar transmission line resonator. In: *Superconductor Science and Technology*, Vol. 20, No. 8, 2007, Art. No. 016, 2007 - SCI ; SCOPUS
- [o1] 2007 You, J. Q. - Liu, Y. X. - Sun, C. P. - Nori, F.: Persistent single-photon production by tunable on-chip micromaser with a superconducting quantum circuit. In: *Physical Review B*, Vol. 75, No. 10, 2007, Art. No. 104516 - SCI ; SCOPUS
- [o1] 2011 Mohamed, A. B. A. - Obada, A. S. F.: Asymptotic geometric phase and purity for phase qubit dispersively coupled to lossy LC circuit. In: *Annals of Physics*, Vol. 326, No. 9, 2011, s. 2369-2376 - SCI ; SCOPUS
- [o1] 2011 Zhang, Y. Q. - Xu, J. B.: Entanglement control in a superconducting qubit system by an electromagnetic field. In: *European Physical Journal D*, Vol. 63, No. 3, 2011, s. 483-488 - SCI ; SCOPUS
- [o1] 2012 Qian, Y. - Zhang, Y. Q. - Xu, J. B.: Amplifying stationary quantum discord and entanglement between a superconducting qubit and a data bus by time-dependent electromagnetic field. In: *Chinese Science Bulletin*, Vol. 57, No. 14, 2012, s. 1637-1642 - SCI ; SCOPUS
- [o1] 2013 Wang, D. M. - Xu, H. S. - Xu, J. B. - Yu, Y. H.: Enhancement of geometric discord for the system of superconducting qubits and transfer of quantum information. In: *Journal of the Optical Society of America B: Optical Physics*, Vol.30, No. 8, 2013, s. 2277-2285 - SCI ; SCOPUS
- [o1] 2013 Zhang, Y. Q. - He, Q. L. - Xu, J. B.: Enhancing quantum discord in superconducting qubit systems by a controllable electromagnetic field. In: *Quantum Information Processing*, Vol. 12, No. 2, 2013, s. 1335-1350 - SCI ; SCOPUS
- [o1] 2014 Abdalla, M. S. - Obada, A. S. F. - Mohamed, A. B. A. - Khalil, E. M.: Purity and correlation of a cavity field interacting with a SC charge qubit with a lossy cavity. In: *International Journal of Theoretical Physics*, Vol. 53, No. 4, 2014, s. 1325-1336 - SCI ; SCOPUS

[o1] 2014 Freitas, D. S. - Nemes, M. C.: Preparation of Schrödinger cat states of a cavity field via coupling to a superconducting charge qubit. In: Modern Physics Letters B, Vol. 28, No. 10, 2014, Art. No. 1450082 - SCI ; SCOPUS

[o1] 2014 Sebaweh, A. M. - Obada, A. S. F. - Khalil, E. M. - Mohamed, A. B. A.: Wehrl entropy information and purity of a SC charge qubit interacting with a lossy cavity field. In: Solid State Communications, Vol. 184, 2014, s. 56-62 - SCOPUS

ADC49 Belogolovskii, Mikhail A. - Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF]: Temperature effect on the quasiparticle spectrum of an impurity-doped superconductor with two separate electron groups

Lit. 23 zázň., 3 obr.

In: Physical Review B. - Vol. 72, No. 5 (2005), Art. No. 052508

*Indikátor časopisu:*

IF (JCR) 2005=3,185

*Ohlasy (1):*

[o1] 2007 Sidorov, S. L. - Tarenkov, V. Y. - Dyachenko, A. I. - Khachaturova, T. A.: Excess current in contacts based on magnesium diboride. In: Physics of the Solid State, Vol. 49, No. 5, 2007, s. 807-811 - SCI ; SCOPUS

ADC50 Ebel, Mark - Busch, Christian - Merkt, Ulrich - Grajcar, Miroslav [UKOMFKEF] - Plecenik, Tomáš [UKOMFKEF] - Il'ichev, Evgeni: Supercurrent-phase relationship of a Nb/InAs(2DES)/Nb Josephson junction in overlapping geometry

Lit. 15 zázň., 6 obr.

In: Physical Review B. - Vol. 71, No. 5 (2005), Art. No. 052506

*Indikátor časopisu:*

IF (JCR) 2005=3,185

*Ohlasy (8):*

[o1] 2005 Yang, L. Y. - Zheng, Z. M. - Xing, D. Y.: Josephson current in superconductor/ferromagnet/superconductor junctions. In: European Physical Journal B, Vol. 47, No. 4, 2005, s. 479-484 - SCOPUS

[o1] 2007 Dell'Anna, L. - Zazunov, A. - Egger, R. - Martin, T.: Josephson current through a quantum dot with spin-orbit coupling. In: Physical Review B, Vol. 75, No. 8, 2007, Art. No. 085305 - SCI ; SCOPUS

[o1] 2008 Reynoso, A. A. - Usaj, G. - Balseiro, C. A. - Feinberg, D. - Avignon, M.: Anomalous Josephson current in junctions with spin polarizing quantum point contacts. In: Physical Review Letters, Vol. 101, No. 10, 2008, Art. No. 107001 -SCI ; SCOPUS

[o1] 2008 Sun, G. Y.: Transport properties and spin accumulation in semiconductor two-dimensional electron gas/superconductor junctions. In: Journal of Physics-Condensed Matter, Vol. 20, No. 32, 2008, Art. No. 325206 - SCI ; SCOPUS

[o1] 2009 Zazunov, A. - Egger, R. - Jonckheere, T. - Martin, T.: Anomalous Josephson current through a spin-orbit coupled quantum dot. In: Physical Review Letters, Vol. 103, No. 14, 2009, Art. No. 147004 - SCI ; SCOPUS

[o1] 2011 Chiodi, F. - Ferrier, M. - Tikhonov, K. - Virtanen, P. - Heikkila, T. T. - Feigelman, M. - Gueron, S. - Bouchiat, H.: Probing the dynamics of Andreev states in a coherent Normal/Superconducting ring. In: Scientific Reports, Vol. 1, 2011, Art. No. 3 - SCOPUS

[o1] 2012 Reynoso, A. A. - Usaj, G. - Balseiro, C. A. - Feinberg, D. - Avignon, M.: Spin-orbit-induced chirality of Andreev states in Josephson junctions. In: Physical Review B, Vol. 86, No. 21, 2012, Art. No. 214519 - SCI ; SCOPUS

[o1] 2013 Brunetti, A. - Zazunov, A. - Kundu, A. - Egger, R.: Anomalous Josephson current, incipient time-reversal symmetry breaking, and Majorana bound states in interacting multilevel dots. In: Physical Review B, Vol. 88, No. 14, 2013, Art.No. 144515 - SCI ; SCOPUS

ADC51 Grajcar, Miroslav [UKOMFKEF] - Izmalkov, A. - Il'ichev, Evgeni: Possible implementation of adiabatic quantum algorithm with superconducting flux qubits

Lit. 34 zázň., 8 obr.

In: Physical Review B. - Vol. 71, No. 14 (2005), Art. No. 144501

URL: [http://arxiv.org/PS\\_cache/cond-mat/pdf/0407/0407405v1.pdf](http://arxiv.org/PS_cache/cond-mat/pdf/0407/0407405v1.pdf)

*Indikátor časopisu:*



IF (JCR) 2005=3,185

POZNÁMKA:

Vyšlo aj - arXiv.org: Condensed Matter. - No. cond-mat/0407405 (2004), 8 s.

*Ohlasy (15):*

- [o1] 2005 Roscilde, T. - Corato, V. - Ruggiero, B. - Silvestrini, P.: A multi-qubit system for a scalable adiabatic quantum evolution. In: Physics Letters A, Vol. 345, No. 1-3, 2005, s. 224-230 - SCI
- [o1] 2005 Sarandy, M. S. - Lidar, D. A.: Adiabatic quantum computation in open systems. In: Physical Review Letters, Vol. 95, No. 25, 2005, Art. No. 250503 - SCI ; SCOPUS
- [o1] 2007 Fowler, A. G. - Thompson, W. F. - Yan, Z. Z. - Stephens, A. M. - Plourde, B. L. T. - Wilhelm, F. K.: Long-range coupling and scalable architecture for superconducting flux qubits. In: Physical Review B, Vol. 76, No. 17, 2007, Art.No. 174507 - SCI ; SCOPUS
- [o1] 2007 Menzel-Jones, C. - Shapiro, M.: Robust operation of a universal set of logic gates for quantum computation using adiabatic population transfer between molecular levels. In: Physical Review A, Vol. 75, No. 5, 2007, Art. No. 052308 -SCI ; SCOPUS
- [o1] 2007 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I. - Laad, M. S.: Two-dimensional Ising model with competing interactions and its application to clusters and arrays of pi-rings and adiabatic quantum computing. In: Physical Review B, Vol.76, No. 6, 2007, Art. No. 064528 - SCI ; SCOPUS
- [o1] 2008 Fowler, A. G. - Thompson, W. F. - Yan, Z. Z. - Stephens, A. M. - Plourde, B. L. T. - Wilhelm, F. K.: Long-range coupling and scalable architecture for superconducting flux qubits. In: Canadian Journal of Physics, Vol. 86, No. 4, 2008, s. 533-540 - SCI ; SCOPUS
- [o1] 2010 Berkley, A. J. - Johnson, M. W. - Bunyk, P. - Harris, R. - Johansson, J. - Lanting, T. - Ladizinsky, E. - Tolkacheva, E. - Amin, M. H. S. - Rose, G.: A scalable readout system for a superconducting adiabatic quantum optimizationsystem. In: Superconductor Science & Technology, Vol. 23, No. 10, 2010, Art. No. 105014 - SCI
- [o1] 2010 Harris, R. - Johnson, M. W. - Lanting, T. - Berkley, A. J. - Johansson, J. - Bunyk, P. - Tolkacheva, E. - Ladizinsky, E. - Ladizinsky, N. - Oh, T. - Cioata, F. - Perminov, I. - Spear, P. - Enderud, C. - Rich, C. - Uchaikin, S. - Thom, M. C. - Chapple, E. M. - Wang, J. - Wilson, B. - Amin, M. H. S. - Dickson, N. - Karimi, K. - Macready, B. - Truncik, C. J. S. - Rose, G.: Experimental investigation of an eight-qubit unit cell in a superconducting optimization processor. In: Physical Review B, Vol. 82, No. 2, 2010, Art. No. 024511 - SCI ; SCOPUS
- [o1] 2010 Shevchenko, S. N. - Ashhab, S. - Nori, F.: Landau-Zener-Stückelberg interferometry. In: Physics Reports, Vol. 492, No. 1, 2010, s. 1-30 - SCOPUS
- [o1] 2010 Zagoskin, A. M.: Why quantum engineering?. In: Low Temperature Physics, Vol. 36, No. 10-11, 2010, s. 911-914 - SCI ; SCOPUS
- [o1] 2011 Fedorov, A. - MacHa, P. - Feofanov, A. K. - Harmans, C. J. P. M. - Mooij, J. E.: Tuned transition from quantum to classical for macroscopic quantum states. In: Physical Review Letters, Vol. 106, No. 17, 2011, Art. No. 170404 - SCI ;SCOPUS
- [o1] 2011 Zagoskin, A. M.: Quantum engineering: Theory and design of quantum coherent structures. In: Quantum Engineering: Theory and Design of Quantum Coherent Structures, 2011, s. 1-332 - SCOPUS
- [o1] 2012 Nagaj, D.: Universal two-body-Hamiltonian quantum computing. In: Physical Review A, Vol. 85, No. 3, 2012, Art. No. 032330 - SCI ; SCOPUS
- [o1] 2013 Kakuyanagi, K. - Kagei, S. - Koibuchi, R. - Saito, S. - Lupascu, A. - Semba, K. - Nakano, H.: Experimental analysis of the measurement strength dependence of superconducting qubit readout using a Josephson bifurcation readout method. In: New Journal of Physics, Vol. 15, 2013, Art. No. 043028 - SCI ; SCOPUS
- [o1] 2014 Sun, J. - Lu, S. - Liu, F.: Adiabatically implementing quantum gates. In: Journal of Applied Physics, Vol. 115, No. 22, 2014, Art. No. 224901 - SCI ; SCOPUS

ADC52 Grajcar, Miroslav [UKOMFKEF] - Izmalkov, A. - van der Ploeg, S. H. W. - Linzen, S. - Il'ichev, Evgeni - Wagner, Thomas - Hübner, U. - Meyer, Hans-Georg - van den Brink, Alec Maassen - Uchaikin, S. - Zagoskin, Alexandre M.: Direct Josephson couplingbetween superconducting flux qubits  
Lit. 19 zázň., 5 obr.

In: Physical Review B. - Vol. 72, No. 2 (2005), Art. No. 020503

URL: [http://arxiv.org/PS\\_cache/cond-mat/pdf/0501/0501085.pdf](http://arxiv.org/PS_cache/cond-mat/pdf/0501/0501085.pdf)

*Indikátor časopisu:*

IF (JCR) 2005=3,185

POZNÁMKA:

Vyšlo aj - arXiv.org: Condensed Matter. - No. cond-mat/0501085 (2005), 4 s.

*Ohlasy (25):*

- [o1] 2005 Novais, E. - Guinea, F. - Neto, A. H. C.: Fixed points of the dissipative Hofstadter model. In: Physical Review Letters, Vol. 94, No. 17, 2005, Art. No. 170401 - SCI
- [o1] 2006 Kim, M. D.: Controllable coupling in phase-coupled flux qubits. In: Physical Review B, Vol. 74, No. 18, 2006, Art. No. 184501 - SCI ; SCOPUS
- [o1] 2006 Liu, Y. X. - Wei, L. F. - Tsai, J. S. - Nori, F.: Controllable coupling between flux qubits. In: Physical Review Letters, Vol. 96, No. 6, 2006, Art. No. 067003 - SCI ; SCOPUS
- [o1] 2006 Migliore, R. - Yuasa, K. - Nakazato, H. - Messina, A.: Generation of multipartite entangled states in Josephson architectures. In: Physical Review B, Vol. 74, No. 10, 2006, Art. No. 104503 - SCI ; SCOPUS
- [o1] 2007 He, X. L. - Liu, Y. X. - You, J. Q. - Nori, F.: Variable-frequency-controlled coupling in charge qubit circuits: Effects of microwave field on qubit-state readout. In: Physical Review A, Vol. 76, No. 2, 2007, Art. No. 022317 - SCI ; SCOPUS
- [o1] 2007 Matsuo, S. - Furuta, K. - Fujii, T. - Nagai, K. - Hatakenaka, N.: Fluxon-based gate controls of capacitively coupled flux-based-phase qubits. In: Applied Physics Letters, Vol. 91, No. 9, 2007, Art. No. 093103 - SCI ; SCOPUS
- [o1] 2007 Migliore, R. - Yuasa, K. - Guccione, M. - Nakazato, H. - Messina, A.: Diffusion and transfer of entanglement in an array of inductively coupled flux qubits. In: Physical Review B, Vol. 76, No. 5, 2007, Art. No. 052501 - SCI ; SCOPUS
- [o1] 2007 Migliore, R. - Messina, A.: Generation of entangled states of two distant cavity modes via Josephson junction based devices. In: International Journal of Quantum Information, Vol. 5, No. 1-2, 2007, s. 83-88 - SCI ; SCOPUS
- [o1] 2008 Migliore, R. - Messina, A.: Single and two-qubit dynamics in circuit QED architectures. In: European Physical Journal-Special Topics, Vol. 159, 2008, s. 101-111 - SCI
- [o1] 2009 He, X. L. - Li, S. - Liu, Y. S. - George, T. F.: Macroscopic entanglement on a hybrid quantum circuit. In: Physics Letters A, Vol. 373, No. 15, 2009, s. 1329-1333 - SCI ; SCOPUS
- [o1] 2009 Matsuo, S. - Furuta, K. - Fujii, T. - Nagai, K. - Hatakenaka, N.: Theory of soliton-based control of coupled superconducting phase qubits. In: Solid State Sciences, Vol. 11, No. 5, 2009, s. 942-944 - SCI ; SCOPUS
- [o1] 2009 Paladino, E. - D'arrigo, A. - Mastellone, A. - Falci, G.: Broadband noise decoherence in solid-state complex architectures. In: Physica Scripta T, Vol. T137, 2009, Art. No. 014017 - SCOPUS
- [o1] 2010 Altomare, F. - Cicak, K. - Sillanpaa, M. A. - Allman, M. S. - Sirois, A. J. - Li, D. - Park, J. I. - Strong, J. A. - Teufel, J. D. - Whittaker, J. D. - Simmonds, R. W.: Measurement crosstalk between two phase qubits coupled by a coplanar waveguide. In: Physical Review B, Vol. 82, No. 9, 2010, Art. No. 094510 - SCI ; SCOPUS
- [o1] 2010 Denisenko, M. V. - Satanin, A. M. - Ashhab, S. - Nori, F.: Dynamics of interacting qubits in a strong alternating electromagnetic field. In: Physics of the Solid State, Vol. 52, No. 11, 2010, s. 2281-2286 - SCI ; SCOPUS
- [o1] 2010 Xia, K. - Evers, J.: Ground-state cooling of a nanomechanical resonator coupled to two interacting flux qubits. In: Physical Review B, Vol. 82, No. 18, 2010, Art. No. 184532 - SCI ; SCOPUS
- [o1] 2011 Nataf, P. - Ciuti, C.: Protected quantum computation with multiple resonators in ultrastrong coupling circuit QED. In: Physical Review Letters, Vol. 107, No. 19, 2011, Art. No. 190402 - SCI ; SCOPUS
- [o1] 2011 Temchenko, E. A. - Shevchenko, S. N. - Omelyanchouk, A. N.: Dissipative dynamics of a two-qubit system: Four-level lasing. In: Physical Review B, Vol. 83, No. 14, 2011, Art. No. 144507 - SCI ; SCOPUS
- [o1] 2011 Xia, K. - Macovei, M. - Evers, J.: Stationary entanglement in strongly coupled qubits. In: Physical Review B, Vol. 84, No. 18, 2011, Art. No. 184510 - SCI ; SCOPUS
- [o1] 2012 Denisenko, M. V. - Satanin, A. M.: Multiphoton resonances in a system of interacting Josephson qubits. In: Journal of Surface Investigation-X-Ray Synchrotron and Neutron Techniques, Vol. 6, No. 6, 2012, s. 990-996 - SCI ; SCOPUS
- [o1] 2012 Hummer, T. - Reuther, G. M. - Haenggi, P. - Zueco, D.: Nonequilibrium phases in hybrid arrays with flux qubits and nitrogen-vacancy centers. In: Physical Review A, Vol. 85, No. 5, 2012, Art. No. 052320 - SCI ; SCOPUS
- [o1] 2012 Satanin, A. M. - Denisenko, M. V. - Ashhab, S. - Nori, F.: Amplitude spectroscopy of two coupled qubits. In: Physical Review B, Vol. 85, No. 18, 2012, Art. No. 184524 - SCI ; SCOPUS

- [o1] 2013 Kapit, E.: Quantum simulation architecture for lattice bosons in arbitrary, tunable, external gauge fields. In: Physical Review A, Vol. 87, No. 6, 2013, Art. No. 062336 - SCI ; SCOPUS
- [o1] 2013 Lu, X. Y. - Xiang, Z. L. - Cui, W. - You, J. Q. - Nori, F.: Quantum memory using a hybrid circuit with flux qubits and nitrogen-vacancy centers. In: Physical Review A, Vol. 88, No. 1, 2013, Art. No. 012329 - SCI ; SCOPUS
- [o1] 2014 He, X. L. - Yang, C. P. - Luo, J. Y. - Shen, Y. - Pan, W. Q. - Li, S.: Controllable coupling between a charge qubit and a spin ensemble. In: Physical Review A, Vol. 89, No. 6, 2014, Art. No. 062306 - SCI ; SCOPUS
- [o1] 2014 Liu, Y. X. - Yang, C. X. - Sun, H. C. - Wang, X. B.: Coexistence of single- and multi-photon processes due to longitudinal couplings between superconducting flux qubits and external fields. In: New Journal of Physics, Vol. 16, 2014, Art. No. 015031 - SCI ; SCOPUS

ADC53 Krech, Wolfram - Born, Detlef - Shnyrkov, Volodymyr I. - Wagner, Thomas - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni - Meyer, Hans-Georg - Greenberg Yakov: Quantum dynamics of the interferometer-type charge qubit under microwave irradiation  
Lit. 16 zázň., 2 obr.  
In: IEEE Transactions on Applied Superconductivity. - Vol. 15, No. 2 (2005), s. 876-879  
*Indikátor časopisu:*  
IF (JCR) 2005=1,071

ADC54 Grajcar, Miroslav [UKOMFKEF] - Liu, Yu-xi - Nori, Franco - Zagoskin, Alexandre M.: Switchable resonant coupling of flux qubits  
Lit. 19 zázň., 3 obr.  
In: Physical Review B. - Vol. 74, No. 17 (2006), Art. No. 172505  
URL: [http://arxiv.org/PS\\_cache/cond-mat/pdf/0605/0605484.pdf](http://arxiv.org/PS_cache/cond-mat/pdf/0605/0605484.pdf)  
*Indikátor časopisu:*  
IF (JCR) 2006=3,107  
POZNÁMKA:  
Vyšlo aj - arXiv.org: Condensed Matter. - No. cond-mat/0605484 (2006), 4 s.  
*Ohlasy (26):*  
[o1] 2006 Kim, M. D.: Controllable coupling in phase-coupled flux qubits. In: Physical Review B, Vol. 74, No. 18, 2006, Art. No. 184501 - SCI  
[o1] 2006 Niskanen, A. O. - Harrabi, K. - Yoshihara, F. - Nakamura, Y. - Tsai, J. S.: Spectroscopy of three strongly coupled flux qubits. In: Physical Review B, Vol. 74, No. 22, 2006, Art. No. 220503 - SCI ; SCOPUS  
[o1] 2007 Fowler, A. G. - Thompson, W. F. - Yan, Z. - Stephens, A. M. - Plourde, B. L. T. - Wilhelm, F. K.: Long-range coupling and scalable architecture for superconducting flux qubits. In: Physical Review B, Vol. 76, No. 17, 2007, Art. No. 174507 - SCI ; SCOPUS  
[o1] 2007 Kim, M. D. - Cho, S. Y.: Entanglement and Bell states in superconducting flux qubits. In: Physical Review B, Vol. 75, No. 13, 2007, Art. no. 134514 - SCI ; SCOPUS  
[o1] 2007 Matsuo, S. - Furuta, K. - Fujii, T. - Nagai, K. - Hatakenaka, N.: Fluxon-based gate controls of capacitively coupled flux-based-phase qubits. In: Applied Physics Letters, Vol. 91, No. 9, 2007, Art. No. 093103 - SCI ; SCOPUS  
[o1] 2007 Niskanen, A. O. - Harrabi, K. - Yoshihara, F. - Nakamura, Y. - Lloyd, S. - Tsai, J. S.: Quantum coherent tunable coupling of superconducting qubits. In: Science, Vol. 316, No. 5825, 2007, s. 723-726 - SCI ; SCOPUS  
[o1] 2008 Blaauboer, M. - De Visser, R. L.: An analytical decomposition protocol for optimal implementation of two-qubit entangling gates. In: Journal of Physics, Vol. 41, No. 39, 2008, Art. No. 395307 - SCI ; SCOPUS  
[o1] 2008 Cho, S. Y. - Kim, M. D.: Macroscopic many-qubit interactions in superconducting flux qubits. In: Physical Review B, Vol. 77, No. 21, 2008, Art. No. 212506 - SCI ; SCOPUS  
[o1] 2008 Kim, M. D. - Cho, S. Y.: Macroscopic Greenberger-Horne-Zeilinger and W states in flux qubits. In: Physical Review B, Vol. 77, No. 10, 2008, Art. no. 100508 - SCI ; SCOPUS  
[o1] 2008 Shi, Q. Q. - Cho, S. Y. - Li, B. - Kim, M. D.: Realizable spin models and entanglement dynamics in superconducting flux qubit systems. In: Physical Review B, Vol. 77, No. 10, 2008, Art. No. 104511 - SCOPUS  
[o1] 2009 Harrabi, K. - Yoshihara, F. - Niskanen, A. O. - Nakamura, Y. - Tsai, J. S.: Engineered selection rules for tunable coupling in a superconducting quantum circuit. In: Physical Review B, Vol. 79, No. 2, 2009, Art. No. 020507 - SCI ; SCOPUS

- [o1] 2009 Kim, M. D. - Cho, S. Y.: Macroscopic Entangled States in Superconducting Flux Qubits. In: 25th International Conference on Low Temperature Physics (Lt25), Part 2 : Journal of Physics Conference Series, Vol. 150. Bristol : IOP Publishing, 2009, Art. No. 022038 - CPI-S ; SCOPUS
- [o1] 2009 Yuan, H. - Zeier, R. - Khaneja, N. - Lloyd, S.: Constructing two-qubit gates with minimal couplings. In: Physical Review A, Vol. 79, No. 4, 2009, Art. No. 042309 - SCI ; SCOPUS
- [o1] 2010 Coffey, M. W. - Deiotte, R.: Exact canonical decomposition of two-qubit operators in terms of CNOT. In: Quantum Information Processing, Vol. 9, No. 6, 2010, s. 681-691 - SCI ; SCOPUS
- [o1] 2011 Wang, H. F. - Jiang, X. X. - Zhang, S. - Yeon, K. H.: Efficient quantum circuit for implementing discrete quantum Fourier transform in solid-state qubits. In: Journal of Physics B: Atomic, Molecular and Optical Physics, Vol. 44, No.11, 2011, Art. No. 115502 - SCI ; SCOPUS
- [o1] 2011 Xia, K. - Macovei, M. - Evers, J.: Stationary entanglement in strongly coupled qubits. In: Physical Review B, Vol. 84, No. 18, 2011, Art. No. 184510 - SCI ; SCOPUS
- [o1] 2012 Tanamoto, T. - Becker, D. - Stojanovic, V. M. - Bruder, C.: Preserving universal resources for one-way quantum computing. In: Physical Review A, Vol. 86, No. 3, 2012, Art. No. 032327 - SCI ; SCOPUS
- [o1] 2013 Dobrowolski, T.: Possible curvature effects in the Josephson junction. In: European Physical Journal B, Vol. 86, No. 8, 2013, Art. No. 346 - SCI ; SCOPUS
- [o1] 2013 Ghosh, J. - Galiutdinov, A. - Zhou, Z. - Korotkov, A. N. - Martinis, J. M. - Geller, M. R.: High-fidelity controlled-sigma(Z) gate for resonator-based superconducting quantum computers. In: Physical Review A, Vol. 87, No. 2, 2013, Art. No. 022309 - SCI ; SCOPUS
- [o1] 2013 Peropadre, B. - Zueco, D. - Wulshner, F. - Deppe, F. - Marx, A. - Gross, R. - Jose Garcia-Ripoll, J.: Tunable coupling engineering between superconducting resonators: From sidebands to effective gauge fields. In: Physical Review B, Vol. 87, No. 13, 2013, Art. No. 134504 - SCI ; SCOPUS
- [o1] 2013 Tanamoto, T.: Implementation of standard quantum error-correction codes for solid-state qubits. In: Physical Review A, Vol. 88, No. 6, 2013, Art. No. 062334 - SCI ; SCOPUS
- [o1] 2013 Zhang, Z. R. - Li, C. Y. - Wu, C. W. - Dai, H. Y. - Li, C. Z.: Creating cluster states in flux qubits with XY-type exchange interactions. In: Physical Review A, Vol. 88, No. 4, 2013, Art. No. 044303 - SCI ; SCOPUS
- [o1] 2014 Allman, M. S. - Whittaker, J. D. - Castellanos-Beltran, M. - Cicak, K. - da Silva, F. - DeFeo, M. P. - Lecocq, F. - Sirois, A. - Teufel, J. D. - Aumentado, J. - Simmonds, R. W.: Tunable resonant and nonresonant interactions between a phase qubit and LC resonator. In: Physical Review Letters, Vol. 112, No. 12, 2014, Art. No. 123601 - SCI ; SCOPUS
- [o1] 2014 He, X. L. - Yang, C. P. - Luo, J. Y. - Shen, Y. - Pan, W. Q. - Li, S.: Controllable coupling between a charge qubit and a spin ensemble. In: Physical Review A, Vol. 89, No. 6, 2014, Art. No. 062306 - SCI ; SCOPUS
- [o1] 2014 Huang, S. Y. - Goan, H. S.: Optimal control for fast and high-fidelity quantum gates in coupled superconducting flux qubits. In: Physical Review A, Vol. 90, No. 1, 2014, Art. No. 012318 - SCI ; SCOPUS
- [o1] 2015 Kyaw, T. H. - Felicetti, S. - Romero, G. - Solano, E. - Kwek, L. C.: Scalable quantum memory in the ultrastrong coupling regime. In: Scientific Reports, Vol. 5, 2015, Art. No. 8621 - SCI ; SCOPUS

ADC55 Grajcar, Miroslav [UKOMFKEF] - Izmalkov, A. - van der Ploeg, S. H. W. - Linzen, S. - Plecenik, Tomáš [UKOMFKEF] - Wagner, Thomas - Hübner, U. - Il'ichev, Evgeni - Meyer, Hans-Georg - Smirnov, A. Yu - Love, Peter J. - van den Brink, Alec Maassen - Amin, M. H. S. - Uchaikin, S. - Zagoskin, Alexandre M.: Four-qubit device with mixed couplings

Lit. 21 zázň., 4 obr.

In: Physical Review Letters. - Vol. 96, No. 4 (2006), Art. No. 047006

*Indikátor časopisu:*

IF (JCR) 2006=7,072

*Ohlasy (43):*

[o1] 2006 Hime, T. - Reichardt, P. A. - Plourde, B. L. T. - Robertson, T. L. - Wu, C. E. - Ustinov, A. V. - Clarke, J.: Solid-state qubits with current-controlled coupling. In: Science, Vol. 314, No. 5804, 2006, s. 1427-1429 - SCI ; SCOPUS

[o1] 2006 Kim, M. D.: Controllable coupling in phase-coupled flux qubits. In: Physical Review B, Vol. 74, No. 18, 2006, Art. No. 184501 - SCI ; SCOPUS

[o1] 2006 Liu, Y. X. - Sun, C. P. - Nori, F.: Scalable superconducting qubit circuits using dressed states. In: Physical Review A, Vol. 74, No. 5, 2006, Art. No. 052321 - SCI ; SCOPUS

- [o1] 2006 Niskanen, A. O. - Harrabi, K. - Yoshihara, F. - Nakamura, Y. - Tsai, J. S.: Spectroscopy of three strongly coupled flux qubits. In: *Physical Review B*, Vol. 74, No. 22, 2006, Art. No. 220503 - SCI ; SCOPUS
- [o1] 2007 Dobsicek, M. - Johansson, G. - Shumeiko, V. - Wendin, G.: Arbitrary accuracy iterative quantum phase estimation algorithm using a single ancillary qubit: A two-qubit benchmark. In: *Physical Review A*, Vol. 76, No. 3, 2007, Art. No.030306 - SCI ; SCOPUS
- [o1] 2007 Kim, M. D. - Cho, S. Y.: Entanglement and Bell states in superconducting flux qubits. In: *Physical Review B*, Vol. 75, No. 13, 2007, Art. No. 134514 - SCI ; SCOPUS
- [o1] 2007 Lovric, M. - Krojanski, H. G. - Suter, D.: Decoherence in large quantum registers under variable interaction with the environment. In: *Physical Review A*, Vol. 75, No. 4, 2007, Art. No. 042305 - SCI ; SCOPUS
- [o1] 2007 Matsuo, S. - Ashhab, S. - Fujii, T. - Nori, F. - Nagai, K. - Hatakenaka, N.: Generation of macroscopic entangled states in coupled superconducting phase qubits. In: *Journal of the Physical Society of Japan*, Vol. 76, No. 5, 2007, Art.No. 054802 - SCOPUS
- [o1] 2007 Niskanen, A. O. - Harrabi, K. - Yoshihara, F. - Nakamura, Y. - Lloyd, S. - Tsai, J. S.: Quantum coherent tunable coupling of superconducting qubits. In: *Science*, Vol. 316, No. 5825, 2007, s. 723-726 - SCI ; SCOPUS
- [o1] 2007 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I. - Laad, M. S.: Two-dimensional Ising model with competing interactions and its application to clusters and arrays of pi-rings and adiabatic quantum computing. In: *Physical Review B*, Vol. 76, No. 6, 2007, Art. No. 064528 - SCI ; SCOPUS
- [o1] 2007 Plantenberg, J. H. - de Groot, P. C. - Harmans, C. J. P. M. - Mooij, J. E.: Demonstration of controlled-NOT quantum gates on a pair of superconducting quantum bits. In: *Nature*, Vol. 447, No. 7146, 2007, s. 836-839 - SCI ; SCOPUS
- [o1] 2007 Saito, K. - Wubs, M. - Kohler, S. - Kayanuma, Y. - Haenggi, P.: Dissipative Landau-Zener transitions of a qubit: Bath-specific and universal behavior. In: *Physical Review B*, Vol. 75, No. 21, 2007, Art. No. 214308 - SCI ; SCOPUS
- [o1] 2007 Sillanpaa, M. A. - Park, J. I. - Simmonds, R. W.: Coherent quantum state storage and transfer between two phase qubits via a resonant cavity. In: *Nature*, Vol. 449, No. 7161, 2007, s. 438-442 - SCI ; SCOPUS
- [o1] 2007 Wang, Y. D. - Xue, F. - Song, Z. - Sun, C. P.: Detection mechanism for quantum phase transition in superconducting qubit array. In: *Physical Review B*, Vol. 76, No. 17, 2007, Art. No. 174519 - SCI ; SCOPUS
- [o1] 2007 You, J. Q. - Hu, X. D. - Ashhab, S. - Nori, F.: Low-decoherence flux qubit. In: *Physical Review B*, Vol. 7, No. 14, 2007, Art. No. 140515 - SCI ; SCOPUS
- [o1] 2008 Alvarez, G. A. - Danieli, E. P. - Levstein, P. R. - Pastawski, H. M.: Quantum parallelism as a tool for ensemble spin dynamics calculations. In: *Physical Review Letters*, Vol. 101, No. 12, 2007, Art. No. 120503 - SCOPUS
- [o1] 2008 Ashhab, S. - Niskanen, A. O. - Harrabi, K. - Nakamura, Y. - Picot, T. - de Groot, P. C. - Harmans, C. J. P. M. - Mooij, J. E. - Nori, F.: Interqubit coupling mediated by a high-excitation-energy quantum object. In: *Physical Review B*, Vol. 77, No. 1, 2008, Art. No. 014510 - SCI ; SCOPUS
- [o1] 2008 Clarke, J. - Wilhelm, F. K.: Superconducting quantum bits. In: *Nature*, Vol. 453, No. 7198, 2008, s. 1031-1042 - SCI ; SCOPUS
- [o1] 2008 Cho, S. Y. - Kim, M. D.: Macroscopic many-qubit interactions in superconducting flux qubits. In: *Physical Review B*, Vol. 77, No. 21, 2008, Art. No. 212506 - SCI ; SCOPUS
- [o1] 2008 Kiyko, A. S. - Omelyanchouk, A. N. - Shevchenko, S. N.: Probing Entanglement in the System of Coupled Josephson Qubits. In: *Controllable Quantum States: Mesoscopic Superconductivity and Spintronics*. Singapore : World Scientific, 2008, S. 53-58 - CPCI-S ; SCOPUS
- [o1] 2008 Yamamoto, T. - Watanabe, M. - You, J. Q. - Pashkin, Y. A. - Astafiev, O. - Nakamura, Y. - Nori, F. - Tsai, J. S.: Spectroscopy of superconducting charge qubits coupled by a Josephson inductance. In: *Physical Review B*, Vol. 77, No. 6, 2008, Art. No. 064505 - SCI ; SCOPUS
- [o1] 2008 Zhou, L. - Gao, Y. B. - Song, Z. - Sun, C. P.: Coherent output of photons from coupled superconducting transmission line resonators controlled by charge qubits. In: *Physical Review A*, Vol. 77, No. 1, 2008, Art. No. 013831 - SCI ; SCOPUS
- [o1] 2009 Helmer, F. - Mariani, M. - Fowler, A. G. - von Delft, J. - Solano, E. - Marquardt, F.): Cavity grid for scalable quantum computation with superconducting circuits. In: *EPL*, Vol. 85, No. 5, 2009, Art. No. 50007 - SCI

- [o1] 2009 Kim, M. D. - Cho, S. Y.: Macroscopic Entangled States in Superconducting Flux Qubits. In: 25th International Conference on Low Temperature Physics, Part 2 : Journal of Physics Conference Series, Vol. 150. Bristol : IOP, 2009, nestr.- CPCI-S
- [o1] 2009 Korotkov, A. N.: Special issue on quantum computing with superconducting qubits. In: Quantum Information Processing, Vol. 8, No. 2-3, 2009, s. 51-54 - SCI ; SCOPUS
- [o1] 2009 Li, Z. - Wu, T. - Liu, J.: Optimal effective current operator for flux qubits accounting for inductive effects. In: Physical Review B, Vol. 79, No. 13, 2009, Art. No. 134519 - SCI ; SCOPUS
- [o1] 2009 Shaw, M. D. - Schneiderman, J. F. - Bueno, J. - Palmer, B. S. - Delsing, P. - Echternach, P. M.: Characterization of an entangled system of two superconducting qubits using a multiplexed capacitance measurement. In: Physical Review B, Vol. 79, No. 1, 2009, Art. No. 014516 - SCI ; SCOPUS
- [o1] 2009 Shimazu, Y. - Saito, Y. - Wada, Z.: Spectroscopy of Josephson-junction flux qubit with controllable energy gap. In: Journal of the Physical Society of Japan, Vol. 78, No. 6, 2009, Art. No. 064708 - SCI
- [o1] 2009 Thrailkill, Z. E. - Kennerly, S. T. - Ramos, R. C.: Modeling three and four coupled phase qubits. In: IEEE Transactions on Applied Superconductivity, Vol. 19, No. 3, 2009, s. 968-972 - CPCI-S ; SCOPUS
- [o1] 2009 Wang, Y. D. - Kemp, A. - Semba, K.: Coupling superconducting flux qubits at optimal point via dynamic decoupling with the quantum bus. In: Physical Review B, Vol. 79, No. 2, 2009, Art. No. 024502 - SCI ; SCOPUS
- [o1] 2009 Xia, K. Y. - Macovei, M. - Evers, J. - Keitel, CH.: Robust coherent preparation of entangled states of two coupled flux qubits via dynamic control of the transition frequencies. In: Physical Review B, Vol. 79, No. 2, 2009, Art. No.024519 - SCI ; SCOPUS
- [o1] 2010 Alvarez, G. A. - Danieli, E. P. - Levstein, P. R. - Pastawski, H. M.: Decoherence as attenuation of mesoscopic echoes in a spin-chain channel. In: Physical Review A, Vol. 82, No. 1, 2010, Art. No. 012310 - SCI ; SCOPUS
- [o1] 2010 Burgarth, D. - Maruyama, K. - Murphy, M. - Montangero, S. - Calarco, T. - Nori, F. - Plenio, M. B.: Scalable quantum computation via local control of only two qubits. In: Physical Review A, Vol. 81, No. 4, 2010, Art. No. 040303 - SCI; SCOPUS
- [o1] 2010 Liu, R. B. - Yao, W. - Sham, L. J.: Quantum computing by optical control of electron spins. In: Advances in Physics, Vol. 59, No. 5, 2010, s. 703-802 - SCI
- [o1] 2011 Bogdanov, Y. I. - Valiev, K. A. - Kokin, A. A.: Quantum computers: Achievements, implementation difficulties, and prospects. In: Russian Microelectronics, Vol. 40, No. 4, 2011, s. 225-236 - SCOPUS
- [o1] 2011 Buluta, I. - Ashhab, S. - Nori, F.: Natural and artificial atoms for quantum computation. In: Reports on Progress in Physics, Vol. 74, No. 10, 2011, Art. No. 104401 - SCI ; SCOPUS
- [o1] 2011 Xia, K. - Macovei, M. - Evers, J.: Stationary entanglement in strongly coupled qubits. In: Physical Review B, Vol. 84, No. 18, 2011, Art. No. 184510 - SCI ; SCOPUS
- [o1] 2011 Yu, L. B. - Xue, Z. Y. - Wang, Z. D. - Yu, Y. - Zhu, S. L.: Implementing multi-qubit entanglement of two-level systems inside a superconducting phase qubit. In: European Physical Journal D, Vol. 61, No. 2, 2011, s. 499-505 - SCI ;SCOPUS
- [o1] 2011 Zwick, A. - Alvarez, G. A. - Stolze, J. - Osenda, O.: Robustness of spin-coupling distributions for perfect quantum state transfer. In: Physical Review A, Vol. 84, No. 2, 2011, Art. No. 022311 - SCI ; SCOPUS
- [o1] 2012 Chen, Q. - Yang, W. L. - Feng, M.: Controllable quantum state transfer and entanglement generation between distant nitrogen-vacancy-center ensembles coupled to superconducting flux qubits. In: Physical Review A, Vol. 86, No. 2, 2012, Art. No. 022327 - SCI ; SCOPUS
- [o1] 2012 Chen, Y. X. - Li, S. W.: Quantum refrigerator driven by current noise. In: EPL, Vol. 97, No. 4, 2012, Art. No. 40003 - SCI ; SCOPUS
- [o1] 2013 Du, L. - Yu, Y. - Lan, D.: Optimal cooling of a driven artificial atom in dissipative environment. In: Low Temperature Physics, Vol. 39, No. 2, 2013, s. 111-119 - SCI ; SCOPUS
- [o1] 2013 Kumar, P.: Direct implementation of an N-qubit controlled-unitary gate in a single step. In: Quantum Information Processing, Vol. 12, No. 2, 2013, s. 1201-1223 - SCI ; SCOPUS

ADC56 Izmalkov, A. - Grajcar, Miroslav [UKOMFKEF] - van der Ploeg, S. H. W. - Hübner, U. - Il'ichev, Evgeni - Meyer, Hans-Georg - Zagoskin, Alexandre M.: Measurement of the ground-state flux diagram of three coupled qubits as a first step towards the demonstration of adiabatic quantum computation  
Lit. 21 zázň., 4 obr.

In: Europhysics Letters. - Vol. 76, No. 3 (2006), s. 533-539

*Indikátor časopisu:*

IF (JCR) 2006=2,229

*Ohlasy (3):*

[o1] 2008 Cao, H. J. - Hu, L.: Detecting the chirality for coupled quantum dots. In: Physics Letters A, Vol. 372, No. 17, 2008, s. 2971-2975 - SCI ; SCOPUS

[o1] 2009 Shaw, M. D. - Schneiderman, J. F. - Bueno, J. - Palmer, B. S. - Delsing, P. - Echternach, P. M.: Characterization of an entangled system of two superconducting qubits using a multiplexed capacitance measurement. In: Physical Review B, Vol. 79, No. 1, 2009, Art. No. 014516 - SCI ; SCOPUS

[o1] 2013 Assaad, F. F. - Bercx, M. - Hohenadler, M.: Topological Invariant and Quantum Spin Models from Magnetic pi Fluxes in Correlated Topological Insulators. In: Physical Review X, Vol. 3, No. 1, 2013, Art. No. 011015 - SCI ; SCOPUS

ADC57 Gregor, Maroš [UKOMFKEF] - Plecenik, Tomáš [UKOMFKEF] - Praščák, Mikuláš [UKOMF000d] - Mičunek, Radovan - Kubinec, Milan [UKOMFKEF] - Gašparík, Vladimír [UKOMF000] - Grajcar, Miroslav [UKOMFKEF] - Kúš, Peter [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF]: MgB<sub>2</sub> radio-frequency superconducting quantum interference device prepared by atomic force microscope lithography  
Lit. 20 zázn., 4 obr.

In: Applied Physics Letters. - Vol. 91, No. 12 (2007), Art. No. 122502

*Indikátor časopisu:*

IF (JCR) 2007=3,596

*Ohlasy (4):*

[o1] 2008 Iwata, F. - Ohara, K. - Ishizu, Y. - Sasaki, A. - Aoyama, H. - Ushiki, T.: Nanometer-scale manipulation and ultrasonic cutting using an atomic force microscope controlled by a haptic device as a human interface. In: Japanese Journal of Applied Physics, Vol. 47, No. 7, Part 3, 2008, s. 6181-6185 - SCI ; SCOPUS

[o1] 2009 Iwata, F. - Saigo, K. - Asao, T. - Yasutake, M. - Takaoka, O. - Nakaue, T. - Kikuchi, S.: Removal method of nano-cut debris for photomask repair using an atomic force microscopy system. In: Japanese Journal of Applied Physics, Vol. 48, No. 8, Part 3, Sp. Iss., 2009, Art. No. 08JB20 - SCI ; SCOPUS

[o1] 2009 Iwata, F. - Kawanishi, S. - Sasaki, A. - Aoyama, H. - Ushiki, T.: Nanometer-scale manipulator and ultrasonic cutter using an atomic force microscope controlled by a haptic device. In: Proceedings of SPIE, Art. No. 71334E - CPCI-S ; SCOPUS

[o1] 2009 Lee, S. G. - Hong, S. H. - Seong, W. K. - Kang, W. N.: All focused ion beam fabricated MgB<sub>2</sub> inter-grain nanobridge dc SQUIDs. In: Superconductor Science & Technology, Vol. 22, No. 6, 2009, Art. No. 064009 - SCI ; SCOPUS

ADC58 Love, Peter J. - van den Brink, Alec Maassen - Smirnov, A. Yu - Amin, M. H. S. - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni - Izmalkov, A. - Zagoskin, Alexandre M.: A characterization of global entanglement

Lit. 27 zázn.

In: Quantum Information Processing. - Vol. 6, No. 3 (2007), s. 187-195

*Indikátor časopisu:*

IF (JCR) 2007=1,041

*Ohlasy (24):*

[o1] 2008 Amico, L. - Fazio, R. - Osterloh, A. - Vedral, V.: Entanglement in many-body systems. In: Reviews of Modern Physics, Vol. 80, No. 2, 2008, s. 517-576 - SCI ; SCOPUS

[o1] 2008 Haas, S.: Quantum magnetism, nanomagnets and entanglement. In: Lectures on the Physics of Strongly Correlated Systems XII : AIP Conference Proceedings, Vol. 1014. Melville : AIP, 2008, S. 3-33 - CPCI-S

[o1] 2008 Ichikawa, T. - Sasaki, T. - Tsutsui, I. - Yonezawa, N.: Exchange symmetry and multipartite entanglement. In: Physical Review A, Vol. 78, No. 5, 2008, Art. No. 052105 - SCI ; SCOPUS

[o1] 2008 Landau, M. A. - Stroud, C. R. , J.: Wave-packet entanglement. In: Physical Review A, Vol. 77, No. 6, 2008, Art. No. 062104 - SCI ; SCOPUS

[o1] 2008 Sabin, C. - Garcia-Alcaine, G.: A classification of entanglement in three-qubit systems. In: European Physical Journal D, Vol. 48, No. 3, 2008, s. 435-442 - SCI ; SCOPUS

[o1] 2009 Amico, L. - Fazio, R.: Entanglement and magnetic order. In: Journal of Physics A: Mathematical and Theoretical, Vol. 42, No. 50, 2009, Art. No. 504001 - SCI ; SCOPUS

[o1] 2009 Ichikawa, T. - Sasaki, T. - Tsutsui, I.: Entanglement measures for intermediate separability of quantum states. In: Physical Review A, Vol. 79, No. 5, 2009, Art. No. 052307 - SCI ; SCOPUS

- [o1] 2010 Chaves, R. - Davidovich, L.: Robustness of entanglement as a resource. In: Physical Review A, Vol. 82, No. 5, 2010, Art. No. 052308 - SCI ; SCOPUS
- [o1] 2010 Gour, G. - Wallach, N. R.: All maximally entangled four-qubit states. In: Journal of Mathematical Physics, Vol. 51, No. 11, 2010, Art. No. 112201 - SCI ; SCOPUS
- [o1] 2010 Ichikawa, T. - Huber, M. - Krammer, P. - Hiesmayr, B. C.: Mixed state entanglement measures for intermediate separability. In: International Journal of Quantum Information, Vol. 8, No. 4, 2010, s. 677-685 - SCI ; SCOPUS
- [o1] 2010 Landau, M. A. - Stroud, C. R. , J.: Calculation of the convex roof for an open entangled harmonic oscillator system. In: Physical Review A, Vol. 81, No. 5, 2010, Art. No. 052304 - SCI ; SCOPUS
- [o1] 2010 Montakhab, A. - Asadian, A.: Multipartite entanglement and quantum phase transitions in the one-, two-, and three-dimensional transverse-field Ising model. In: Physical Review A, Vol. 82, No. 6, 2010, Art. No. 062313 - SCI ; SCOPUS
- [o1] 2010 Oliveira, D. S. - Ramos, R. V.: Residual entanglement with negativity for pure four-qubit quantum states. In: Quantum Information Processing, Vol. 9, No. 4, 2010, s. 497-508 - SCI ; SCOPUS
- [o1] 2010 Osterloh, A. - Siewert, J.: The invariant-comb approach and its relation to the balancedness of multipartite entangled states. In: New Journal of Physics, Vol. 12, 2010, Art. No. 075025 - SCI ; SCOPUS
- [o1] 2011 Buscemi, F. - Bordone, P.: Measure of tripartite entanglement in bosonic and fermionic systems. In: Physical Review A, Vol. 84, No. 2, 2011, Art. No. 022303 - SCI ; SCOPUS
- [o1] 2011 Vrana, P.: On the algebra of local unitary invariants of pure and mixed quantum states. In: Journal of Physics A: Mathematical and Theoretical, Vol. 44, No. 22, 2011, Art. No. 225304 - SCI ; SCOPUS
- [o1] 2012 Aulbach, M.: Classification of Entanglement in Symmetric States. In: International Journal of Quantum Information, Vol. 10, No. 7, 2012, Art. No. 1230004 - SCI
- [o1] 2012 Hashemi, R. S. M. - Huber, M. - Broadbent, C. J. - Eberly, J. H.: Genuinely multipartite concurrence of N-qubit X matrices. In: Physical Review a - Atomic, Molecular, and Optical Physics, Vol. 86, No. 6, 2012, Art. No. 062303 -SCOPUS
- [o1] 2012 Rafsanjani, S. M. H. - Huber, M. - Broadbent, C. J. - Eberly, J. H.: Genuinely multipartite concurrence of N-qubit X matrices. In: Physical Review A, Vol. 86, No. 6, 2012, Art. No. 062303 - SCI
- [o1] 2012 Wu, J. Y. - Kampermann, H. - Bruss, D. - Klockl, C. - Huber, M.: Determining lower bounds on a measure of multipartite entanglement from few local observables. In: Physical Review a - Atomic, Molecular, and Optical Physics, Vol. 86, No. 2, 2012, Art. No. 022319 - SCOPUS
- [o1] 2013 Chen, L. - Dokovic, D. Z.: Proof of the Gour-Wallach conjecture. In: Physical Review A, Vol. 88, No. 4, 2013, Art. No. 042307 - SCI ; SCOPUS
- [o1] 2013 Osterloh, A.: Entanglement and Its Multipartite Extensions. In: International Journal of Modern Physics B, Vol. 27, No. 1-3, 2013, Art. No. 1345018 - SCI
- [o1] 2014 Eltschka, C. - Siewert, J.: Quantifying entanglement resources. In: Journal of Physics A: Mathematical and Theoretical, Vol. 47, No. 42, 2014, Art. No. 424005 - SCI ; SCOPUS
- [o1] 2015 Eltschka, C. - Toth, G. - Siewert, J.: Partial transposition as a direct link between concurrence and negativity. In: Physical Review A, Vol. 91, No. 3, 2015, Art. No. 032327 - SCI ; SCOPUS

ADC59 van der Ploeg, S. H. W. - Izmalkov, A. - Grajcar, Miroslav [UKOMFKEF] - Hübner, U. - Linzen, S. - Uchaikin, S. - Wagner, Thomas - Smirnov, A. Yu - van den Brink, Alec Maassen - Amin, M. H. S. - Zagoskin, Alexandre M. - Il'ichev, Evgeni - Meyer, Hans-Georg: Adiabatic quantum computation with flux qubits, first experimental results

Lit. 18 zázň., 7 obr.

In: IEEE Transactions on Applied Superconductivity. - Vol. 17, No. 2 (2007), s. 113-119

*Indikátor časopisu:*

IF (JCR) 2007=1,551

*Ohlasy (3):*

[o1] 2013 Wang, H. - Liu, J. - Zhi, J. - Fu, C.: The improvement of quantum genetic algorithm and its application on function optimization. In: Mathematical Problems in Engineering, Vol. 2013, 2013, Art. No. 730749 - SCI ; SCOPUS

[o1] 2013 Chancellor, N. - Haas, S.: Scalable universal holonomic quantum computation realized with an adiabatic quantum data bus and potential implementation using superconducting flux qubits. In: Physical Review A - Atomic, Molecular, and Optical Physics, Vol. 87, Mo. 4, 2013, Art. No. 042321 - SCOPUS

[o1] 2012 Chancellor, N. - Haas, S.: Using the J 1-J 2 quantum spin chain as an adiabatic quantum data bus. In: New Journal of Physics, Vol. 14, 2012, Art. No. 095025 - SCOPUS



- ADC60 van der Ploeg, S. H. W. - Izmalkov, A. - van den Brink, Alec Maassen - Hübner, U. - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni - Meyer, Hans-Georg - Zagoskin, Alexandre M.: Controllable coupling of superconducting flux qubits  
Lit. 23 zázň., 5 obr.  
In: Physical Review Letters. - Vol. 98, No. 5 (2007), Art. No. 057004  
*Indikátor časopisu:*  
IF (JCR) 2007=6,944  
*Ohlasy (84):*
- [o1] 2007 Ashhab, S. - Nori, F.: Switchable coupling for superconducting qubits using double resonance in the presence of crosstalk. In: Physical Review B, Vol. 76, No. 13, 2007, Art. No. 132513 - SCI ; SCOPUS
- [o1] 2007 Dobsicek, M. - Johansson, G. - Shumeiko, V. - Wendin, G.: Arbitrary accuracy iterative quantum phase estimation algorithm using a single ancillary qubit: A two-qubit benchmark. In: Physical Review A, Vol. 76, No. 3, 2007, Art. No.030306 - SCOPUS
- [o1] 2007 Fowler, A. G. - Thompson, W. F. - Yan, Z. - Stephens, A. M. - Plourde, B. L. T. - Wilhelm, F. K.: Long-range coupling and scalable architecture for superconducting flux qubits. In: Physical Review B, Vol. 76, No. 17, 2007, Art. No.174507 - SCI ; SCOPUS
- [o1] 2007 Hutter, C. - Makhlin, Y. - Shnirman, A. - Schon, G.: Stability of longitudinal coupling for Josephson charge qubits. In: Physical Review B, Vol. 76, No. 2, 2007, Art. No. 024512 - SCI ; SCOPUS
- [o1] 2007 Kim, M. D. - Cho, S. Y.: Entanglement and Bell states in superconducting flux qubits. In: Physical Review B, Vol. 75, No. 13, 2007, Art. No. 134514 - SCI ; SCOPUS
- [o1] 2007 Majer, J. - Chow, J. M. - Gambetta, J. M. - Koch, J. - Johnson, B. R. - Schreier, J. A. - Frunzio, L. - Schuster, D. I. - Houck, A. A. - Wallraff, A. - Blais, A. - Devoret, M. H. - Girvin, S. M. - Schoelkopf, R. J.: Couplingsuperconducting qubits via a cavity bus. In: Nature, Vol. 449, No. 7161, 2007, s. 443-447 - SCI ; SCOPUS
- [o1] 2007 Niskanen, A. O. - Harrabi, K. - Yoshihara, F. - Nakamura, Y. - Lloyd, S. - Tsai, J. S.: Quantum coherent tunable coupling of superconducting qubits. In: Science, Vol. 316, No. 5825, 2007, s. 723-726 - SCI
- [o1] 2007 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I. - Laad, M. S.: Two-dimensional Ising model with competing interactions and its application to clusters and arrays of pi-rings and adiabatic quantum computing. In: Physical Review B, Vol.76, No. 6, 2007, Art. No. 064528 - SCI ; SCOPUS
- [o1] 2008 Ashhab, S. - Niskanen, A. O. - Harrabi, K. - Nakamura, Y. - Picot, T. - De Groot, P. C. - Harmans, C. J. P. M. - Mooij, J. E. - Nori, F.: Interqubit coupling mediated by a high-excitation-energy quantum object. In: Physical Review B, Vol. 77, No. 1, 2008, Art. No. 014510 - SCI ; SCOPUS
- [o1] 2008 Cho, S. Y. - Kim, M. D.: Macroscopic many-qubit interactions in superconducting flux qubits. In: Physical Review B, Vol. 77, No. 21, 2008, Art. No. 212506 - SCI ; SCOPUS
- [o1] 2008 Fay, A. - Hoskinson, E. - Lecocq, F. - Lévy, L. P. - Hekking, F. W. J. - Guichard, W. - Buisson, O.: Strong tunable coupling between a superconducting charge and phase qubit. In: Physical Review Letters, Vol. 100, No. 18, 2008, Art.No. 187003 - SCI ; SCOPUS
- [o1] 2008 Fowler, A. G. - Thompson, W. F. - Yan, Z. - Stephens, A. M. - Plourde, B. L. T. - Wilhelm, F. K.: Long-range coupling and scalable architecture for superconducting flux qubits. In: Canadian Journal of Physics, Vol. 86, No. 4, 2008,s. 533-540 - SCI ; SCOPUS
- [o1] 2008 Kerman AJ, Oliver WD: High-fidelity quantum operations on superconducting qubits in the presence of noise. In: Physical Review Letters, Vol. 101, No. 7, 2008, Art. No. 070501 - SCI ; SCOPUS
- [o1] 2008 Kim, M. D. - Cho, S. Y.: Macroscopic Greenberger-Horne-Zeilinger and W states in flux qubits. In: Physical Review B, Vol. 77, No. 10, 2008, Art. No. 100508 - SCI ; SCOPUS
- [o1] 2008 Shi, Q. Q. - Cho, S. Y. - Li, B. - Kim, M. D.: Realizable spin models and entanglement dynamics in superconducting flux qubit systems. In: Physical Review B, Vol. 77, No. 10, 2008, Art. No. 104511 - SCI ; SCOPUS
- [o1] 2008 Yamamoto, T. - Watanabe, M. - You, J. Q. - Pashkin, Y. A. - Astafiev, O. - Nakamura, Y. - Nori, F. - Tsai, J. S.: Spectroscopy of superconducting charge qubits coupled by a Josephson inductance. In: Physical Review B, Vol. 77, No. 6,2008, Art. No. 064505 - SCI ; SCOPUS
- [o1] 2009 Harrabi, K. - Yoshihara, F. - Niskanen, A. O. - Nakamura, Y. - Tsai, J. S.: Engineered selection rules for tunable coupling in a superconducting quantum circuit. In: Physical Review B, Vol. 79, No. 2, 2009, Art. No. 020507 - SCI ;SCOPUS

- [o1] 2009 Harris, R. - Lanting, T. - Berkley, A. J. - Johansson, J. - Johnson, M. W. - Bunyk, P. - Ladizinsky, E. - Ladizinsky, N. - Oh, T. - Han, S.: Compound Josephson-junction coupler for flux qubits with minimal crosstalk. In: *Physical Review B*, Vol. 80, No. 5, 2009, Art. No. 052506 - SCI ; SCOPUS
- [o1] 2009 Kim, M. D. - Cho, S. Y.: Macroscopic Entangled States in Superconducting Flux Qubits. In: 25th International Conference on Low Temperature Physics (Lt25), Part 2 : *Journal of Physics Conference Series*, Vol. 150. Bristol : IOP Publishing, 2009, Art. No. 022038 - CPCI-S ; SCOPUS
- [o1] 2009 Korotkov, A. N.: Special issue on quantum computing with superconducting qubits. In: *Quantum Information Processing*, Vol. 8, No. 2-3, 2009, s. 51-54 - SCI ; SCOPUS
- [o1] 2009 Kurpas, M. - Dajka, J. - Zipper, E.: Entanglement of qubits via a nonlinear resonator. In: *Journal of Physics Condensed Matter*, Vol. 21, No. 23, 2009, Art. No. 235602 - SCI ; SCOPUS
- [o1] 2009 Leek, P. J. - Filipp, S. - Maurer, P. - Baur, M. - Bianchetti, R. - Fink, J. M. - Goppl, M. - Steffen, L. - Wallraff, A.: Using sideband transitions for two-qubit operations in superconducting circuits. In: *Physical Review B*, Vol. 79, No. 18, 2009, Art. No. 180511 - SCI ; SCOPUS
- [o1] 2009 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I.: 2D Ising model with competing interactions and its application to clusters and arrays of  $\pi$ -rings, graphene and adiabatic quantum computing. In: *International Journal of Modern Physics B*, Vol. 23, No. 20-21, 2009, s. 3951-3967 - SCI ; SCOPUS
- [o1] 2009 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I.: Two-dimensional Ising model with competing interactions: Phase diagram and low-temperature remanent disorder. In: *Physical Review B*, Vol. 79, No. 1, 2009, Art. No. 014439 - SCI ; SCOPUS
- [o1] 2009 Oliver, W. D. - Valenzuela, S. O.: Large-amplitude driving of a superconducting artificial atom. In: *Quantum Information Processing*, Vol. 8, No. 2-3, 2009, s. 261-281 - SCI ; SCOPUS
- [o1] 2009 Paauw, F. G. - Fedorov, A. - Harmans, C. J. P. M. - Mooij, J. E.: Tuning the gap of a superconducting flux qubit. In: *Physical Review Letters*, Vol. 102, No. 9, 2009, Art. No. 090501 - SCI ; SCOPUS
- [o1] 2009 Paladino, E. - D'Arrigo, A. - Mastellone, A. - Falci, G.: Broadband noise decoherence in solid-state complex architectures. In: *Physica Scripta*, Vol. T137, 2009, Art. No. 014017 - SCI ; SCOPUS
- [o1] 2009 Shaw, M. D. - Schneiderman, J. F. - Bueno, J. - Palmer, B. S. - Delsing, P. - Echternach, P. M.: Characterization of an entangled system of two superconducting qubits using a multiplexed capacitance measurement. In: *Physical Review B*, Vol. 79, No. 1, 2009, Art. No. 014516 - SCI ; SCOPUS
- [o1] 2009 Wang, Y. D. - Kemp, A. - Semba, K.: Coupling superconducting flux qubits at optimal point via dynamic decoupling with the quantum bus. In: *Physical Review B*, Vol. 79, No. 2, 2009, Art. No. 024502 - SCI ; SCOPUS
- [o1] 2009 Yuan, H. - Zeier, R. - Khaneja, N. - Lloyd, S.: Constructing two-qubit gates with minimal couplings. In: *Physical Review A*, Vol. 79, No. 4, 2009, Art. No. 042309 - SCI ; SCOPUS
- [o1] 2009 Zhang, J. - Liu, Y. X. - Li, C. W. - Tarn, T. J. - Nori, F.: Generating stationary entangled states in superconducting qubits. In: *Physical Review A*, Vol. 79, No. 5, 2009, Art. No. 052308 - SCI ; SCOPUS
- [o1] 2009 Zueco, D. - Galve, F. - Kohler, S. - Haenggi, P.: Quantum router based on ac control of qubit chains. In: *Physical Review A*, Vol. 80, No. 4, 2009, Art. No. 042303 - SCI ; SCOPUS
- [o1] 2010 Allman, M. S. - Altomare, F. - Whittaker, J. D. - Cicak, K. - Li, D. - Sirois, A. - Strong, J. - Teufel, J. D. - Simmonds, R. W.: rf-SQUID-mediated coherent tunable coupling between a superconducting phase qubit and a lumped-element resonator. In: *Physical Review Letters*, Vol. 104, No. 17, 2010, Art. No. 177004 - SCI ; SCOPUS
- [o1] 2010 Bellomo, B. - Compagno, G. - D'Arrigo, A. - Falci, G. - Lo Franco, R. - Paladino, E.: Entanglement degradation in the solid state: Interplay of adiabatic and quantum noise. In: *Physical Review A*, Vol. 81, No. 6, 2010, Art. No. 062309 - SCI ; SCOPUS
- [o1] 2010 Du, L. - Hu, Y. - Zhou, Z. W. - Guo, G. C. - Zhou, X.: Integrated photonic qubit quantum computing on a superconducting chip. In: *New Journal of Physics*, Vol. 12, 2010, Art. No. 063015 - SCI ; SCOPUS
- [o1] 2010 Kerman, A. J.: Metastable superconducting qubit. In: *Physical Review Letters*, Vol. 104, No. 2, 2010, Art. No. 027002 - SCI ; SCOPUS
- [o1] 2010 Leandro, J. F. - de Castro, A. S. M. - Munhoz, P. P. - Semiao, F. L.: Active control of qubit-qubit entanglement evolution. In: *Physics Letters A*, Vol. 374, No. 41, 2010, s. 4199-4204 - SCI ; SCOPUS
- [o1] 2010 Liang, B. L. - Wang, J. S. - Meng, X. G. - Su, J.: Quantum entanglement and control in a capacitively coupled charge qubit circuit. In: *Chinese Physics B*, Vol. 19, No. 1, 2010, Art. No. 010315 - SCI ; SCOPUS
- [o1] 2010 Macovei, M. A.: Cooling a quantum circuit via coupling to a multiqubit system. In: *Physical Review A*, Vol. 81, No. 4, 2010, Art. No. 043411 - SCI ; SCOPUS

- [o1] 2010 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I.: 2d ising model with competing interactions and its application to clusters and arrays of pi-rings, graphene and adiabatic quantum computing. In: Condensed Matter Theories, Vol 24. Singapore : World Scientific Publ., 2010, S. 15-31 - CPCI-S
- [o1] 2010 Paladino, E. - Mastellone, A. - D'Arrigo, A. - Falci, G.: Optimal tuning of solid-state quantum gates: A universal two-qubit gate. In: Physical Review B, Vol. 81, No. 5, 2010, Art. No. 052502 - SCI ; SCOPUS
- [o1] 2010 Pinto, R. A. - Korotkov, A. N. - Geller, M. R. - Shumeiko, V. S. - Martinis, J. M.: Analysis of a tunable coupler for superconducting phase qubits. In: Physical Review B, Vol. 82, No. 10, 2010, Art. No. 104522 - SCI ; SCOPUS
- [o1] 2010 Tsai, J. S.: Toward a superconducting quantum computer: Harnessing macroscopic quantum coherence. In: Proceedings of the Japan Academy Series B: Physical and Biological Sciences, Vol. 86, No. 4, 2010, s. 275-292 - SCI ; SCOPUS
- [o1] 2011 Erfani, M. - Hasko, D. G. - Rossi, A. - Cho, W. S. - Choi, J. B.: Microwave driven arbitrary coupling between trapped charge resonances in a silicon single electron transistor. In: Applied Physics Letters, Vol. 99, No. 19, 2011, Art.No. 192108 - SCI ; SCOPUS
- [o1] 2011 Groszkowski, P. - Fowler, A. G. - Motzoi, F. - Wilhelm, F. K.: Tunable coupling between three qubits as a building block for a superconducting quantum computer. In: Physical Review B, Vol. 84, No. 14, 2011, Art. No. 144516 - SCI ; SCOPUS
- [o1] 2011 Hoffman, A. J. - Srinivasan, S. J. - Gambetta, J. M. - Houck, A. A.: Coherent control of a superconducting qubit with dynamically tunable qubit-cavity coupling. In: Physical Review B, Vol. 84, No. 18, 2011, Art. No. 184515 - SCI ; SCOPUS
- [o1] 2011 Kumar, P. - Skinner, S. R. - Daraeizadeh, S.: Nearest-neighbor architecture to overcome effects of qubit precessions in gate operations. In: 2011 IEEE Congress on Evolutionary Computation (Cec) : IEEE Congress on Evolutionary Computation. New York : IEEE, 2011, S. 2729-2734 - CPCI-S ; SCOPUS
- [o1] 2011 Nataf, P. - Ciuti, C.: Protected quantum computation with multiple resonators in ultrastrong coupling circuit QED. In: Physical Review Letters, Vol. 107, No. 19, 2011, Art. No. 190402 - SCI ; SCOPUS
- [o1] 2011 Paladino, E. - D'Arrigo, A. - Mastellone, A. - Falci, G.: Decoherence times of universal two-qubit gates in the presence of broad-band noise. In: New Journal of Physics, Vol. 13, 2011, Art. No. 093037 - SCI ; SCOPUS
- [o1] 2011 Srinivasan, S. J. - Hoffman, A. J. - Gambetta, J. M. - Houck, A. A.: Tunable coupling in circuit quantum electrodynamics using a superconducting charge qubit with a V-Shaped energy level diagram. In: Physical Review Letters, Vol. 106, No. 8, 2011, Art. No. 083601 - SCI ; SCOPUS
- [o1] 2011 Xia, K. - Macovei, M. - Evers, J.: Stationary entanglement in strongly coupled qubits. In: Physical Review B, Vol. 84, No. 18, 2011, Art. No. 184510 - SCI ; SCOPUS
- [o1] 2012 Chiarello, F. - Paladino, E. - Castellano, M. G. - Cosmelli, C. - D'Arrigo, A. - Torrioli, G. - Falci, G.: Superconducting qubit manipulated by fast pulses: experimental observation of distinct decoherence regimes. In: New Journal of Physics, Vol. 14, 2012, Art. No. 023031 - SCI ; SCOPUS
- [o1] 2012 D'Arrigo, A. - Paladino, E.: Optimal operating conditions of an entangling two-transmon gate. In: New Journal of Physics, Vol. 14, 2012, Art. No. 053035 - SCI ; SCOPUS
- [o1] 2012 Garnerone, S. - Zanardi, P. - Lidar, D. A.: Adiabatic quantum algorithm for search engine ranking. In: Physical Review Letters, Vol. 108, No. 23, 2012, Art. No. 230506 - SCI ; SCOPUS
- [o1] 2012 Ghosh, J. - Fowler, A. G. - Geller, M. R.: Surface code with decoherence: An analysis of three superconducting architectures. In: Physical Review A, Vol. 86, No. 6, 2012, Art. No. 062318 - SCI ; SCOPUS
- [o1] 2012 Houck, A. A. - Tureci, H. E. - Koch, J.: On-chip quantum simulation with superconducting circuits. In: Nature Physics, Vol. 8, No. 4, 2012, s. 292-299 - SCI ; SCOPUS
- [o1] 2012 Huebner, T. - Reuther, G. M. - Haenggi, P. - Zueco, D.: Nonequilibrium phases in hybrid arrays with flux qubits and nitrogen-vacancy centers. In: Physical Review A, Vol. 85, No. 5, 2012, Art. No. 052320 - SCI ; SCOPUS
- [o1] 2012 Satanin, A. M. - Denisenko, M. V. - Ashhab, S. - Nori, F.: Amplitude spectroscopy of two coupled qubits. In: Physical Review B, Vol. 85, No. 18, 2012, Art. No. 184524 - SCI ; SCOPUS
- [o1] 2012 Spilla, S. - Migliore, R. - Scala, M. - Napoli, A.: GHZ state generation of three Josephson qubits in the presence of bosonic baths. In: Journal of Physics B-Atomic Molecular and Optical Physics, Vol. 45, No. 6, 2012, Art. No. 065501 - SCI
- [o1] 2012 Wu, C. W. - Gao, M. - Deng, Z. J. - Dai, H. Y. - Chen, P. X. - Li, C. Z.: Quantum superposition of localized and delocalized phases of photons. In: Physics Letters A, Vol. 376, No. 44, 2012, s. 2765-2769 - SCI ; SCOPUS

- [o1] 2013 Garigipati, R. C. - Kumar, P.: Implementing gate operations between uncoupled qubits in linear nearest neighbor arrays using a learning algorithm. In: Quantum Information Processing, Vol. 12, No. 7, 2013, s. 2291-2308 - SCI ; SCOPUS
- [o1] 2013 Ghosh, J. - Galiatdinov, A. - Zhou, Z. - Korotkov, A. N. - Martinis, J. M. - Geller, M. R.: High-fidelity controlled-sigma(Z) gate for resonator-based superconducting quantum computers. In: Physical Review A, Vol. 87, No. 2, 2013, Art. No. 022309 - SCI ; SCOPUS
- [o1] 2013 Kumar, P.: Direct implementation of an N-qubit controlled-unitary gate in a single step. In: Quantum Information Processing, Vol. 12, No. 2, 2013, s. 1201-1223 - SCI ; SCOPUS
- [o1] 2013 Kumar, P.: Efficient quantum computing between remote qubits in linear nearest neighbor architectures. In: Quantum Information Processing, Vol. 12, No. 4, 2013, s. 1737-1757 - SCI ; SCOPUS
- [o1] 2013 Kumar, P. - Skinner, S. R.: Using non-ideal gates to implement universal quantum computing between uncoupled qubits. In: Quantum Information Processing, Vol. 12, No. 2, 2013, s. 973-996 - SCI ; SCOPUS
- [o1] 2013 Liang, B. L. - Wang, J. S. - Meng, X. G. - Yang, Q. Y.: Investigating mesoscopic circuits with entangled state representations. In: Chinese Physics B, Vol. 22, No. 1, 2013, Art. No. 016804 - SCI ; SCOPUS
- [o1] 2013 Liao, Q. - Liu, X. - Ahmad, M. A.: Entanglement between Charge and Flux Qubits. In: Modern Physics Letters B, Vol. 27, No. 31, 2013, Art. No. 1350230 - SCI
- [o1] 2013 Lu, X. Y. - Xiang, Z. L. - Cui, W. - You, J. Q. - Nori, F.: Quantum memory using a hybrid circuit with flux qubits and nitrogen-vacancy centers. In: Physical Review A, Vol. 88, No. 1, 2013, Art. No. 012329 - SCI ; SCOPUS
- [o1] 2013 Mukhin, S. I. - Fistul, M. V.: Generation of non-classical photon states in superconducting quantum metamaterials. In: Superconductor Science & Technology, Vol. 26, No. 8, 2013, Art. No. 084003 - SCI ; SCOPUS
- [o1] 2013 Peropadre, B. - Zueco, D. - Wulshner, F. - Deppe, F. - Marx, A. - Gross, R. - Garcia-Ripoll, J. J.: Tunable coupling engineering between superconducting resonators: From sidebands to effective gauge fields. In: Physical Review B - Condensed Matter and Materials Physics, Vol. 87, No. 13, 2013, Art. No. 134504 - SCI ; SCOPUS
- [o1] 2013 Tanamoto, T.: Implementation of standard quantum error-correction codes for solid-state qubits. In: Physical Review A, Vol. 88, No. 6, 2013, Art. No. 062334 - SCI ; SCOPUS
- [o1] 2013 Yu, Y. - Fu, G. - Guo, L. P. - Pan, H. - Wang, Z. S.: Quantum correlations of coupled superconducting two-qubit system in various cavity environments. In: Physica C: Superconductivity and Its Applications, Vol. 495, 2013, s. 88-108 -SCI ; SCOPUS
- [o1] 2013 Zhao, N. - Liu, J. S. - Li, T. F. - Chen, W.: Progress of coupled superconducting qubits. In: Wuli Xuebao/Acta Physica Sinica, Vol. 62, No. 1, 2013, Art. No. 010301 - SCI ; SCOPUS
- [o1] 2014 Allman, M. S. - Whittaker, J. D. - Castellanos-Beltran, M. - Cicak, K. - da Silva, F. - DeFeo, M. P. - Lecocq, F. - Sirois, A. - Teufel, J. D. - Aumentado, J. - Simmonds, R. W.: Tunable Resonant and Nonresonant Interactions between aPhase Qubit and LC Resonator. In: Physical Review Letters, Vol. 112, No. 12, 2014, Art. No. 123601 - SCI ; SCOPUS
- [o1] 2014 Chen, Y. - Neill, C. - Roushan, P. - Leung, N. - Fang, M. - Barends, R. - Kelly, J. - Campbell, B. - Chen, Z. - Chiaro, B. - Dunsworth, A. - Jeffrey, E. - Megrant, A. - Mutus, J. Y. - O'Malley, P. J. J. - Quintana, C. M. - Sank, D. - Vainsencher, A. - Wenner, J. - White, T. C. - Geller, M. R. - Cleland, A. N. - Martinis, J. M.: Qubit architecture with high coherence and fast tunable coupling. In: Physical Review Letters, Vol. 113, No. 22, 2014, Art. No. 220502 - SCI ; SCOPUS
- [o1] 2014 D'Arrigo, A. - Falci, G. - Paladino, E.: Dynamical decoupling of random telegraph noise in a two-qubit gate. In: International Journal of Quantum Information, Vol. 12, No. 2, 2014, Art. No. 1461008 - SCI ; SCOPUS
- [o1] 2014 Falci, G. - Paladino, E.: The physics of quantum computation. In: International Journal of Quantum Information, Vol. 12, No. 4, 2014, Art. No. 1430003 - SCI ; SCOPUS
- [o1] 2014 Kurcz, A. - Bermudez, A. - Jose Garcia-Ripoll, J.: Hybrid Quantum Magnetism in Circuit QED: From Spin-Photon Waves to Many-Body Spectroscopy. In: Physical Review Letters, Vol. 112, No. 18, 2014, Art. No. 180405 - SCI ; SCOPUS
- [o1] 2014 Ma, S. L. - Li, Z. - Fang, A. P. - Li, P. B. - Gao, S. Y. - Li, F. L.: Controllable generation of two-mode-entangled states in two-resonator circuit QED with a single gap-tunable superconducting qubit. In: Physical Review A, Vol. 90, No. 6, 2014, Art. No. 062342 - SCI ; SCOPUS
- [o1] 2014 Volkov, P. A. - Fistul, M. V.: Collective quantum coherent oscillations in a globally coupled array of superconducting qubits. In: Physical Review B, Vol. 89, No. 5, 2014, Art. No. 054507 - SCI ; SCOPUS

- [o1] 2014 You, J. Q. - Wang, Z. D. - Zhang, W. - Nori, F.: Encoding a qubit with Majorana modes in superconducting circuits. In: Scientific Reports, Vol. 4, 2014, Art. No. 5535 - SCI ; SCOPUS
- [o1] 2015 Baust, A. - Hoffmann, E. - Haeberlein, M. - Schwarz, M. J. - Eder, P. - Goetz, J. - Wulschner, F. - Xie, E. - Zhong, L. - Quijandria, F. - Peropadre, B. - Zueco, D. - Garcia Ripoll, J. J. - Solano, E. - Fedorov, K. - Menzel, E. P. - Deppe, F. - Marx, A. - Gross, R.: Tunable and switchable coupling between two superconducting resonators. In: Physical Review B, Vol. 91, No. 1, 2015, Art. No. 014515 - SCI ; SCOPUS
- [o1] 2015 De, A.: Coupled-qubit Tavis-Cummings scheme for prolonging quantum coherence. In: Physical Review A, Vol. 91, No. 1, 2015, Art. No. 012317 - SCI ; SCOPUS
- [o1] 2015 Kumar, P. - Daraeizadeh, S.: Parity-based mirror inversion for efficient quantum state transfer and computation in nearest-neighbor arrays. In: Physical Review A, Vol. 91, No. 4, 2015, Art. No. 042310 - SCI ; SCOPUS

ADC61 Zakosarenko, V. - Bondarenko, N. - van der Ploeg, S. H. W. - Izmalkov, A. - Linzen, S. - Kunert, J. - Grajcar, Miroslav [UKOMFKEF] - Il'ichev, Evgeni - Meyer, Hans-Georg: Realization of a classical counterpart of a scalable design for adiabatic quantum computation  
Lit. 12 zázň., 3 obr.

In: Applied Physics Letters. - Vol. 90, No. 22 (2007), Art. No. 022501

*Indikátor časopisu:*

IF (JCR) 2007=3,596

*Ohlasy (7):*

- [o1] 2007 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I. - Laad, M. S. P.: Two-dimensional Ising model with competing interactions and its application to clusters and arrays of pi-rings and adiabatic quantum computing. In: Physical Review B, Vol. 76, No. 6, 2007, Art. No. 064528 - SCI ; SCOPUS
- [o1] 2008 Cui, D. J. - Yu, H. F. - Peng, Z. H. - Cao, W. H. - Zhu, X. B. - Tian, Y. - Chen, G. H. - Lin, D. H. - Gu, C. Z. - Zheng, D. N. - Jing, X. N. - Lu, L. - Zhao, S. P.: Macroscopic quantum tunneling and qubit design parameters of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub>+delta surface intrinsic Josephson junctions. In: Superconductor Science and Technology, Vol. 21, No. 12, 2008, Art. No. 125019 - SCI ; SCOPUS
- [o1] 2009 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I.: 2D ising model with competing interactions and its application to clusters and arrays of pi-rings, graphene and adiabatic quantum computing. In: International Journal of Modern Physics B, Vol. 23, No. 20-21, 2009, s. 3951-3967 - SCI ; SCOPUS
- [o1] 2009 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I.: Two-dimensional Ising model with competing interactions: Phase diagram and low-temperature remanent disorder. In: Physical Review B, Vol. 79, No. 1, 2009, Art. No. 014439 - SCI ; SCOPUS
- [o1] 2010 Harris, R. - Johnson, M. W. - Lanting, T. - Berkley, A. J. - Johansson, J. - Bunyk, P. - Tolkacheva, E. - Ladizinsky, E. - Ladizinsky, N. - Oh, T. - Cioata, F. - Perminov, I. - Spear, P. - Enderud, C. - Rich, C. - Uchaikin, S. - Thom, M. C. - Chapple, E. M. - Wang, J. - Wilson, B. - Amin, M. H. S. - Dickson, N. - Karimi, K. - Macready, B. - Truncik, C. J. S. - Rose, G.: Experimental investigation of an eight-qubit unit cell in a superconducting optimization processor. In: Physical Review B, Vol. 82, No. 2, 2010, Art. No. 024511 - SCI ; SCOPUS
- [o1] 2010 O'Hare, A. - Kusmartsev, F. V. - Kugel, K. I.: 2D ising model with competing interactions and its application to clusters and arrays of pi-rings, graphene and adiabatic quantum computing. In: Condensed Matter Theories, Vol 24. Singapore : World Scientific Publ., 2010, S. 15-31 - CPCI-S
- [o1] 2014 Allman, M. S. - Whittaker, J. D. - Castellanos-Beltran, M. - Cicak, K. - da Silva, F. - DeFeo, M. P. - Lecocq, F. - Sirois, A. - Teufel, J. D. - Aumentado, J. - Simmonds, R. W.: Tunable Resonant and Nonresonant Interactions between a Phase Qubit and LC Resonator. In: Physical Review Letters, Vol. 112, No. 12, 2014, Art. No. 123601 - SCI ; SCOPUS

ADC62 Grajcar, Miroslav [UKOMFKEF] (25%) - Ashhab, S. - Johansson, J. R. - Nori, Franco: Lower limit on the achievable temperature in resonator-based sideband cooling

Lit. 34 zázň., 5 obr.

In: Physical Review B. - Vol. 78, No. 3 (2008), Art. No. 035406

*Indikátor časopisu:*

IF (JCR) 2008=3,322

*Ohlasy (18):*

- [o1] 2008 Li, Y. - Wang, Y. D. - Xue, F. - Bruder, C.: Quantum theory of transmission line resonator-assisted cooling of a micromechanical resonator. In: *Physical Review B*, Vol. 78, No. 13, 2008, Art. No. 134301 - SCI ; SCOPUS
- [o1] 2009 Koerting, V. - Schmidt, T. L. - Doiron, C. B. - Trauzettel, B. - Bruder, C.: Transport properties of a superconducting single-electron transistor coupled to a nanomechanical oscillator. In: *Physical Review B*, Vol. 79, No. 13, 2009, Art. No. 134511 - SCI ; SCOPUS
- [o1] 2009 Quan, H. T.: Quantum thermodynamic cycles and quantum heat engines. II. In: *Physical Review E*, Vol. 79, No. 4, 2009, Art. No. 041129 - SCI ; SCOPUS
- [o1] 2009 Tian, L.: Ground state cooling of a nanomechanical resonator via parametric linear coupling. In: *Physical Review B*, Vol. 79, No. 19, 2009, Art. No. 193407 - SCI ; SCOPUS
- [o1] 2009 Wang, Y. D. - Li, Y. - Xue, F. - Bruder, C. - Semba, K.: Cooling a micromechanical resonator by quantum back-action from a noisy qubit. In: *Physical Review B*, Vol. 80, No. 14, 2009, Art. No. 144508 - SCI ; SCOPUS
- [o1] 2010 Rabl, P.: Cooling of mechanical motion with a two-level system: The high-temperature regime. In: *Physical Review B*, Vol. 82, No. 16, 2010, Art. No. 165320 - SCI ; SCOPUS
- [o1] 2010 Rocheleau, T. - Ndikum, T. - MacKlin, C. - Hertzberg, J. B. - Clerk, A. A. - Schwab, K. C.: Preparation and detection of a mechanical resonator near the ground state of motion. In: *Nature*, Vol. 463, No. 7277, 2010, s. 72-75 - SCI ; SCOPUS
- [o1] 2010 Tsang, M.: Cavity quantum electro-optics. In: *Physical Review A*, Vol. 81, No. 6, 2010, Art. No. 063837 - SCI ; SCOPUS
- [o1] 2010 Zhang, J. - Liu, Y. X. - Wu, R. B. - Li, C. W. - Tarn, T. J.: Transition from weak to strong measurements by nonlinear quantum feedback control. In: *Physical Review A*, Vol. 82, No. 2, 2010, Art. No. 022101 - SCI ; SCOPUS
- [o1] 2011 Li, Z. Z. - Ouyang, S. H. - Lam, C. H. - You, J. Q.: Cooling a nanomechanical resonator by a triple quantum dot. In: *Epl*, Vol. 95, No. 4, 2011, Art. No. 40003 - SCI ; SCOPUS
- [o1] 2011 Zagoskin, A. M.: Quantum engineering: Theory and design of quantum coherent structures. In: *Quantum Engineering: Theory and Design of Quantum Coherent Structures*, 2011, s. 1-332 - SCOPUS
- [o1] 2012 Greenberg, Y. S. - Pashkin, Y. A. - Il'ichev, E.: Nanomechanical resonators. In: *Physics-Uspekhi*, Vol. 55, No. 4, 2012, s. 382-407 - SCI ; SCOPUS
- [o1] 2012 Lin, B. - Huang, Z. - Chen, J.: Performance analysis of a micro-scaled quantum Stirling refrigeration cycle. In: *Journal of Applied Physics*, Vol. 112, No. 6, 2012, Art. No. 064908 - SCI ; SCOPUS
- [o1] 2013 Du, L. - Yu, Y. - Lan, D.: Optimal cooling of a driven artificial atom in dissipative environment. In: *Low Temperature Physics*, Vol. 39, No. 2, 2013, s. 111-119 - SCI ; SCOPUS
- [o1] 2013 Jones, P. J. - Salmilehto, J. - Mottonen, M.: Highly controllable qubit-bath coupling based on a sequence of resonators. In: *Journal of Low Temperature Physics*, Vol. 173, No. 3-4, 2013, s. 152-169 - SCI ; SCOPUS
- [o1] 2013 Jones, P. J. - Huhtamaki, J. A. M. - Salmilehto, J. - Tan, K. Y. - Mottonen, M.: Tunable electromagnetic environment for superconducting quantum bits. In: *Scientific Reports*, Vol. 3, 2013, Art. No. 1987 - SCI ; SCOPUS
- [o1] 2013 Wang, T. - Cao, C. - Wang, C.: On the developments and applications of optical microcavities: an overview. In: *Science China-Information Sciences*, Vol. 56, No. 12, 2013, Art. No. 122401 - SCI ; SCOPUS
- [o1] 2014 Ren, Z. Z. - Wang, F. Q. - Liang, R. S. - Luo, K.: Ground-state cooling for a nanomechanical resonator by a double quantum dot system coupled to ferromagnetic leads. In: *Journal of the Optical Society of America B: Optical Physics*, Vol. 31, No. 11, 2014, s. 2885-2892 - SCI ; SCOPUS

ADC63 Grajcar, Miroslav [UKOMFKEF] (12%) - van der Ploeg, S. H. W. - Izmalkov, A. - Il'ichev, Evgeni - Meyer, Hans-Georg - Fedorov, A. - Shnirman, A. - Schön, G.: Sisyphus cooling and amplification by a superconducting qubit

Lit. 27 zázn., 4 obr.

In: *Nature Physics*. - Vol. 4, No. 8 (2008), s. 612-616

*Indikátor časopisu:*

IF (JCR) 2008=16,821

*Ohlasy (39):*

- [o1] 2008 Gunnarsson, D. - Tuorila, J. - Paila, A. - Sarkar, J. - Thuneberg, E. - Makhlin, Y. - Hakonen, P.: Vibronic spectroscopy of an artificial molecule. In: *Physical Review Letters*, Vol. 101, No. 25, 2008, Art. No. 256806 - SCI ; SCOPUS

- [o1] 2008 Nori, F.: Superconducting qubits: Atomic physics with a circuit. In: *Nature Physics*, Vol. 4, No. 8, 2008, s. 589-U16 - SCI ; SCOPUS
- [o1] 2009 Ashhab, S. - Johansson, J. R. - Zagoskin, A. M. - Nori, F.: Single-artificial-atom lasing using a voltage-biased superconducting charge qubit. In: *New Journal of Physics*, Vol. 11, 2009, Art. No. 023030 - SCI ; SCOPUS
- [o1] 2009 Girvin, S. M. - Devoret, M. H. - Schoelkopf, R. J.: Circuit QED and engineering charge-based superconducting qubits. In: *Physica Scripta*, Vol. T137, 2009, Art. No. 014012 - SCI ; SCOPUS
- [o1] 2009 Johansson, J. R. - Ashhab, S. - Zagoskin, A. M. - Nori, F.: Single-artificial-atom lasing and its suppression by strong pumping. In: *Proceedings of the 9th International Symposium on Foundations of Quantum Mechanics in the Light of New Technology*. Singapore : World Scientific Publishing, 2009, s. 210-213 - CPCIS ; SCOPUS
- [o1] 2009 Kafanov, S. - Kemppinen, A. - Pashkin, Y. A. - Meschke, M. - Tsai, J. S. - Pekola, J. P.: Single-Electronic Radio-Frequency Refrigerator. In: *Physical Review Letters*, Vol. 103, No. 12, 2009, Art. No. 120801 - SCI ; SCOPUS
- [o1] 2009 Liu, L. W. - Tan, L. - Xu, Y.: Optical force and friction of a V-type three-level atom in a driven high-Q cavity. In: *Journal of Modern Optics*, Vol. 56, No. 8, 2009, s. 967-974 - SCI ; SCOPUS
- [o1] 2009 Nori, F.: Quantum football. In: *Science*, Vol. 325, No. 5941, 2009, s. 689-690 - SCI
- [o1] 2009 Oliver, W. D. - Valenzuela, S. O.: Large-amplitude driving of a superconducting artificial atom. In: *Quantum Information Processing*, Vol. 8, No. 2-3, 2009, s. 261-281 - SCI ; SCOPUS
- [o1] 2009 Ouyang, S. H. - You, J. Q. - Nori, F.: Cooling a mechanical resonator via coupling to a tunable double quantum dot. In: *Physical Review B*, Vol. 79, No. 7, 2009, Art. No. 075304 - SCI ; SCOPUS
- [o1] 2009 Shnyrkov, V. I. - Born, D. - Soroka, A. A. - Krech, W.: Coherent Rabi response of a charge-phase qubit under microwave irradiation. In: *Physical Review B*, Vol. 79, No. 18, 2009, Art. No. 184522 - SCI ; SCOPUS
- [o1] 2010 Liao, J. Q. - Dong, H. - Sun, C. P.: Single-particle machine for quantum thermalization. In: *Physical Review A*, Vol. 81, No. 5, 2010, Art. No. 052121 - SCI ; SCOPUS
- [o1] 2010 Serban, I. - Dykman, M. I. - Wilhelm, F. K.: Relaxation of a qubit measured by a driven Duffing oscillator. In: *Physical Review A*, Vol. 81, No. 2, 2010, Art. No. 022305 - SCI ; SCOPUS
- [o1] 2010 Skinner, J. C. - Prance, H. - Stiffell, P. B. - Prance, R. J.: Sisyphus effects in a microwave-excited flux-qubit resonator system. In: *Physical Review Letters*, Vol. 105, No. 25, 2010, Art. No. 257002 - SCI ; SCOPUS
- [o1] 2011 Buluta, I. - Ashhab, S. - Nori, F.: Natural and artificial atoms for quantum computation. In: *Reports on Progress in Physics*, Vol. 74, No. 10, 2011, Art. No. 104401 - SCI ; SCOPUS
- [o1] 2011 Chen, J. - Yu, Y. - Wang, F.: Production of annular flat-topped vortex beams. In: *Chinese Optics Letters*, Vol. 9, No. 1, 2011, Art. No. 011402 - SCI ; SCOPUS
- [o1] 2011 Marthaler, M. - Leppaekangas, J. - Cole, J. H.: Lasing, trapping states, and multistability in a circuit quantum electrodynamical analog of a single-atom injection maser. In: *Physical Review B*, Vol. 83, No. 18, 2011, Art. No. 180505 - SCI ; SCOPUS
- [o1] 2011 Temchenko, E. A. - Shevchenko, S. N. - Omelyanchouk, A. N.: Dissipative dynamics of a two-qubit system: Four-level lasing. In: *Physical Review B*, Vol. 83, No. 14, 2011, Art. No. 144507 - SCI ; SCOPUS
- [o1] 2011 You, J. Q. - Nori, F.: Atomic physics and quantum optics using superconducting circuits. In: *Nature*, Vol. 474, No. 7353, 2011, s. 589-597 - SCI ; SCOPUS
- [o1] 2011 Zagoskin, A. M.: Quantum engineering: Theory and design of quantum coherent structures. In: *Quantum Engineering: Theory and Design of Quantum Coherent Structures*, 2011, s. 1-332 - SCOPUS
- [o1] 2012 Ballester, D. - Romero, G. - Garcia-Ripoll, J. J. - Deppe, F. - Solano, E.: Quantum simulation of the ultrastrong-coupling dynamics in circuit quantum electrodynamics. In: *Physical Review X*, Vol. 2, No. 2, 2012, Art. No. 021007 - SCOPUS
- [o1] 2012 Chen, Y. X. - Li, S. W.: Quantum refrigerator driven by current noise. In: *EPL*, Vol. 97, No. 4, 2012, Art. No. 40003 - SCI ; SCOPUS
- [o1] 2012 Govia, L. C. G. - Pritchett, E. J. - Merkel, S. T. - Pineau, D. - Wilhelm, F. K.: Theory of Josephson photomultipliers: Optimal working conditions and back action. In: *Physical Review A*, Vol. 86, No. 3, 2012, Art. No. 032311 - SCI ; SCOPUS
- [o1] 2012 Murch, K. W. - Vool, U. - Zhou, D. - Weber, S. J. - Girvin, S. M. - Siddiqi, I.: Cavity-assisted quantum bath engineering. In: *Physical Review Letters*, Vol. 109, No. 18, 2012, Art. No. 183602 - SCI ; SCOPUS

- [o1] 2012 Zagorskin, A. M. - Savel'ev, S. - Nori, F. - Kusmartsev, F. V.: Squeezing as the source of inefficiency in the quantum Otto cycle. In: Physical Review B, Vol. 86, No. 1, 2012, Art. No. 014501 - SCI ; SCOPUS
- [o1] 2013 Campagne-Ibarcq, P. - Flurin, E. - Roch, N. - Darson, D. - Morfin, P. - Mirrahimi, M. - Devoret, M. H. - Mallet, F. - Huard, B.: Persistent control of a superconducting qubit by stroboscopic measurement feedback. In: Physical Review X, Vol. 3, No. 2, 2013, Art. No. 021008 - SCI ; SCOPUS
- [o1] 2013 Du, L. - Yu, Y. - Lan, D.: Optimal cooling of a driven artificial atom in dissipative environment. In: Low Temperature Physics, Vol. 39, No. 2, 2013, s. 111-119 - SCI ; SCOPUS
- [o1] 2013 Geerlings, K. - Leghtas, Z. - Pop, I. M. - Shankar, S. - Frunzio, L. - Schoelkopf, R. J. - Mirrahimi, M. - Devoret, M. H.: Demonstrating a driven reset protocol for a superconducting qubit. In: Physical Review Letters, Vol. 110, No.12, 2013, Art. No. 120501 - SCI ; SCOPUS
- [o1] 2013 Jones, P. J. - Salmilehto, J. - Mottonen, M.: Highly controllable qubit-bath coupling based on a sequence of resonators. In: Journal of Low Temperature Physics, Vol. 173, No. 3-4, 2013, s. 152-169 - SCI ; SCOPUS
- [o1] 2013 Jones, P. J. - Huhtamaki, J. A. M. - Salmilehto, J. - Tan, K. Y. - Mottonen, M.: Tunable electromagnetic environment for superconducting quantum bits. In: Scientific Reports, Vol. 3, 2013, Art. No. 1987 - SCI ; SCOPUS
- [o1] 2013 Koshino, K. - Inomata, K. - Yamamoto, T. - Nakamura, Y.: Implementation of an Impedance-Matched Lambda System by Dressed-State Engineering. In: Physical Review Letters, Vol. 111, No. 15, 2013, Art. No. 153601 - SCI ; SCOPUS
- [o1] 2013 Xiang, Z. L. - Ashhab, S. - You, J. Q. - Nori, F.: Hybrid quantum circuits: Superconducting circuits interacting with other quantum systems. In: Reviews of Modern Physics, Vol. 85, No. 2, 2013, s. 623-653 - SCI ; SCOPUS
- [o1] 2014 Georgescu, I. M. - Ashhab, S. - Nori, F.: Quantum simulation. In: Reviews of Modern Physics, Vol. 86, No. 1, 2014, Art. No. 153 - SCI ; SCOPUS
- [o1] 2014 Inomata, K. - Koshino, K. - Lin, Z. R. - Oliver, W. D. - Tsai, J. S. - Nakamura, Y. - Yamamoto, T.: Microwave down-conversion with an impedance-matched  $\lambda$  system in driven circuit QED. In: Physical Review Letters, Vol. 113, No. 6, 2014, Art. No. 063604 - SCI ; SCOPUS
- [o1] 2014 Liu, Y. X. - Yang, C. X. - Sun, H. C. - Wang, X. B.: Coexistence of single- and multi-photon processes due to longitudinal couplings between superconducting flux qubits and external fields. In: New Journal of Physics, Vol. 16, 2014, Art. No. 015031 - SCOPUS
- [o1] 2014 Navarrete-Benlloch, C. - Garcia-Ripoll, J. J. - Porras, D.: Inducing nonclassical lasing via periodic drivings in circuit quantum electrodynamics. In: Physical Review Letters, Vol. 113, No. 19, 2014, Art. No. 193601 - SCI ; SCOPUS
- [o1] 2014 Saiko, A. P. - Fedaruk, R. - Markevich, S. A.: Relaxation, decoherence, and steady-state population inversion in qubits doubly dressed by microwave and radiofrequency fields. In: Journal of Physics B: Atomic, Molecular and Optical Physics, Vol. 47, No. 15, 2014, Art. No. 155502 - SCI ; SCOPUS
- [o1] 2014 Shnyrkov, V. I. - Krech, W. - Born, D. - Serebrovsky, V. V. - Turutanov, O. G.: Charge-flux qubit coupled to a tank circuit in a strong low-frequency electromagnetic field. In: Low Temperature Physics, Vol. 40, No. 12, 2014, s.1035-1043 - SCI ; SCOPUS
- [o1] 2015 Deng, X. - Jia, C. - Chien, C. C.: Sitewise manipulations and Mott insulator-superfluid transition of interacting photons using superconducting circuit simulators. In: Physical Review B, Vol. 91, No. 5, 2015, Art. No. 054515 - SCI ; SCOPUS

ADC64 Izmalkov, A. - van der Ploeg, S. H. W. - Shevchenko, S. N. - Grajcar, Miroslav [UKOMFKEF] (12%) - Il'ichev, Evgeni - Hübner, U. - Omelyanchouk, A. N. - Meyer, Hans-Georg: Consistency of ground state and spectroscopic measurements on flux qubits

Lit. 18 zázň., 4 obr.

In: Physical Review Letters. - Vol. 101, No. 1 (2008), Art. No. 017003

*Indikátor časopisu:*

IF (JCR) 2008=7,180

*Ohlasy (33):*

[o1] 2008 Banerjee, A. - Yakovenko, V. M.: Angular magnetoresistance oscillations in quasi-one-dimensional organic conductors in the presence of a crystal superstructure. In: Physical Review B - Condensed Matter and Materials Physics, Vol. 78, No. 12, 2008, Art. No. 125404 - SCOPUS



- [o1] 2009 Harris, R. - Brito, F. - Berkley, A. J. - Johansson, J. - Johnson, M. W. - Lanting, T. - Bunyk, P. - Ladizinsky, E. - Bumble, B. - Fung, A. - Kaul, A. - Kleinsasser, A. - Han, S.: Synchronization of multiple coupled rf-SQUID fluxqubits. In: *New Journal of Physics*, Vol. 11, 2009, Art. No. 123022 - SCI ; SCOPUS
- [o1] 2009 Korotkov, A. N.: Special issue on quantum computing with superconducting qubits. In: *Quantum Information Processing*, Vol. 8, No. 2-3, 2009, s. 51-54 - SCI ; SCOPUS
- [o1] 2009 Oliver, W. D. - Valenzuela, S. O.: Large-amplitude driving of a superconducting artificial atom. In: *Quantum Information Processing*, Vol. 8, No. 2-3, 2009, s. 261-281 - SCI ; SCOPUS
- [o1] 2009 Shaw, M. D. - Schneiderman, J. F. - Bueno, J. - Palmer, B. S. - Delsing, P. - Echtenach, P. M.: Characterization of an entangled system of two superconducting qubits using a multiplexed capacitance measurement. In: *Physical Review B*, Vol. 79, No. 1, 2009, Art. No. 014516 - SCI ; SCOPUS
- [o1] 2009 Shnyrkov, V. I. - Born, D. - Soroka, A. A. - Krech, W.: Coherent Rabi response of a charge-phase qubit under microwave irradiation. In: *Physical Review B*, Vol. 79, No. 18, 2009, Art. No. 184522 - SCI ; SCOPUS
- [o1] 2009 Sun, G. - Wen, X. - Wang, Y. - Cong, S. - Chen, J. - Kang, L. - Xu, W. - Yu, Y. - Han, S. - Wu, P.: Population inversion induced by Landau-Zener transition in a strongly driven rf superconducting quantum interference device. In: *Applied Physics Letters*, Vol. 94, No. 10, 2009, Art. No. 102502 - SCI ; SCOPUS
- [o1] 2009 Wen, X. - Yu, Y.: Landau-Zener interference in multilevel superconducting flux qubits driven by large-amplitude fields. In: *Physical Review B*, Vol. 79, No. 9, 2009, Art. No. 094529 - SCI ; SCOPUS
- [o1] 2010 Du, L. - Yu, Y.: Noise effects on Landau-Zener-Stueckelberg interferometry in multilevel artificial atoms. In: *Physical Review B*, Vol. 82, No. 14, 2010, Art. No. 144524 - SCI ; SCOPUS
- [o1] 2010 Ferron, A. - Dominguez, D. - Jose Sanchez, M.: Large-amplitude harmonic driving of highly coherent flux qubits. In: *Physical Review B*, Vol. 82, No. 13, 2010, Art. No. 134522 - SCI ; SCOPUS
- [o1] 2010 Harris, R. - Johansson, J. - Berkley, A. J. - Johnson, M. W. - Lanting, T. - Han, S. - Bunyk, P. - Ladizinsky, E. - Oh, T. - Perminov, I. - Tolkacheva, E. - Uchaikin, S. - Chapple, E. M. - Enderud, C. - Rich, C. - Thom, M. - Wang, J. - Wilson, B. - Rose, G.: Experimental demonstration of a robust and scalable flux qubit. In: *Physical Review B*, Vol. 81, No. 13, 2010, Art. No. 134510 - SCI ; SCOPUS
- [o1] 2010 Petta, J. R. - Lu, H. - Gossard, A. C.: A coherent beam splitter for electronic spin states. In: *Science*, Vol. 327, No. 5966, 2010, s. 669-672 - SCI ; SCOPUS
- [o1] 2010 Sun, G. - Wen, X. - Mao, B. - Chen, J. - Yu, Y. - Wu, P. - Han, S.: Tunable quantum beam splitters for coherent manipulation of a solid-state tripartite qubit system. In: *Nature Communications*, Vol. 1, 2010, Art. No. 51 - SCI ; SCOPUS
- [o1] 2010 Tuorila, J. - Silveri, M. - Sillanpaa, M. - Thuneberg, E. - Makhlin, Y. - Hakonen, P.: Stark effect and generalized Bloch-Siegert shift in a strongly driven two-level system. In: *Physical Review Letters*, Vol. 105, No. 25, 2010, Art.No. 257003 - SCI ; SCOPUS
- [o1] 2010 Wang, Y. - Cong, S. - Wen, X. - Pan, C. - Sun, G. - Chen, J. - Kang, L. - Xu, W. - Yu, Y. - Wu, P.: Quantum interference induced by multiple Landau-Zener transitions in a strongly driven rf-SQUID qubit. In: *Physical Review B*, Vol.81, No. 14, 2010, Art. No. 144505 - SCI ; SCOPUS
- [o1] 2011 Gasparinetti, S. - Solinas, P. - Pekola, J. P.: Geometric Landau-Zener interferometry. In: *Physical Review Letters*, Vol. 107, No. 20, 2011, Art. No. 207002 - SCI ; SCOPUS
- [o1] 2011 Sun, G. - Wen, X. - Mao, B. - Yu, Y. - Chen, J. - Xu, W. - Kang, L. - Wu, P. - Han, S.: Landau-Zener-Stueckelberg interference of microwave-dressed states of a superconducting phase qubit. In: *Physical Review B*, Vol. 83, No. 18, 2011, Art. No. 180507 - SCI ; SCOPUS
- [o1] 2012 Ferron, A. - Dominguez, D. - Jose Sanchez, M.: Tailoring population inversion in Landau-Zener-Stueckelberg interferometry of flux qubits. In: *Physical Review Letters*, Vol. 109, No. 23, 2012, Art. No. 237005 - SCI ; SCOPUS
- [o1] 2012 Satanin, A. M. - Denisenko, M. V. - Ashhab, S. - Nori, F.: Amplitude spectroscopy of two coupled qubits. In: *Physical Review B*, Vol. 85, No. 18, 2012, Art. No. 184524 - SCI ; SCOPUS
- [o1] 2012 Sun, Z. - Ma, J. - Wang, X. - Nori, F.: Photon-assisted Landau-Zener transition: Role of coherent superposition states. In: *Physical Review A*, Vol. 86, No. 1, 2012, Art. No. 012107 - SCI ; SCOPUS
- [o1] 2013 De Graaf, S. E. - Leppakangas, J. - Adamyan, A. - Danilov, A. V. - Lindstrom, T. - Fogelstrom, M. - Bauch, T. - Johansson, G. - Kubatkin, S. E.: Charge qubit coupled to an intense microwave electromagnetic field in a superconducting Nb device: Evidence for photon-assisted quasiparticle tunneling. In: *Physical Review Letters*, Vol. 111, No. 13, 2013, Art. No. 137002 - SCI ; SCOPUS
- [o1] 2013 Du, L. - Yu, Y. - Lan, D.: Electromagnetically induced interference in a superconducting flux qubit. In: *Low Temperature Physics*, Vol. 39, No. 6, 2013, s. 503-514 - SCI ; SCOPUS

- [o1] 2013 Du, L. - Lan, D. - Yu, Y.: Low-frequency Landau-Zener-Stückelberg interference in dissipative superconducting qubits. In: Low Temperature Physics, Vol. 39, No. 8, 2013, s. 665-679 - SCI ; SCOPUS
- [o1] 2013 Du, L. - Lan, D. - Yu, Y.: Low-frequency Landau-Zener-Stückelberg interference in dissipative superconducting qubits. In: Fizika Nizkikh Temperatur, Vol. 39, No. 8, 2013, s. 863-878 - SCOPUS
- [o1] 2013 Du, L. - Yu, Y. - Lan, D.: Optimal cooling of a driven artificial atom in dissipative environment. In: Low Temperature Physics, Vol. 39, No. 2, 2013, s. 111-119 - SCI ; SCOPUS
- [o1] 2013 Du, L. - Yu, Y. - Lan, D.: Optimal cooling of a driven artificial atom in dissipative environment. In: Fizika Nizkikh Temperatur, Vol. 39, No. 2, 2013, s. 150-161 - SCOPUS
- [o1] 2013 Kenmoe, M. B. - Phien, H. N. - Kiselev, M. N. - Fai, L. C.: Effects of colored noise on Landau-Zener transitions: Two- and three-level systems. In: Physical Review B, Vol. 87, No. 22, 2013, Art. No. 224301 - SCI ; SCOPUS
- [o1] 2013 Silveri, M. - Tuorila, J. - Kemppainen, M. - Thuneberg, E.: Probe spectroscopy of quasienergy states. In: Physical Review B, Vol. 87, No. 13, 2013, Art. No. 134505 - SCI ; SCOPUS
- [o1] 2013 Syzranov, S. V. - Rodionov, Y. I. - Kugel, K. I. - Nori, F.: Strongly anisotropic Dirac quasiparticles in irradiated graphene. In: Physical Review B, Vol. 88, No. 24, 2013, Art. No. 241112 - SCI ; SCOPUS
- [o1] 2014 Ferron, A. - Dominguez, D. - Jose Sanchez, M.: Weak localization and conductance fluctuations-like effects in Qubits driven by biharmonic signals. In: 27th International Conference on Low Temperature Physics (LT27), Pts 1-5 : Journal of Physics Conference Series, Vol. 568. Bristol : IOP Publishing, 2014, Art. No. 052028 - CPCI-S ; SCOPUS
- [o1] 2014 Satanin, A. M. - Denisenko, M. V. - Gelman, A. I. - Nori, F.: Amplitude and phase effects in Josephson qubits driven by a biharmonic electromagnetic field. In: Physical Review B, Vol. 90, No. 10, 2014, Art. No. 104516 - SCI ; SCOPUS
- [o1] 2015 Blattmann, R. - Haenggi, P. - Kohler, S.: Qubit interference at avoided crossings: The role of driving shape and bath coupling. In: Physical Review A, Vol. 91, No. 4, 2015, Art. No. 042109 - SCI
- [o1] 2015 Sun, G. - Wen, X. - Gong, M. - Zhang, D. W. - Yu, Y. - Zhu, S. L. - Chen, J. - Wu, P. - Han, S.: Observation of coherent oscillation in single-passage Landau-Zener transitions. In: Scientific Reports, Vol. 5, 2015, Art. No. 8463 -SCI ; SCOPUS

ADC65 Plecenik, Tomáš [UKOMFKEF] (20%) - Gregor, Maroš [UKOMFKEF] - Praščák, Mikuláš [UKOMF000d] (15%) - Mičunek, Radovan (9%) - Grajcar, Miroslav [UKOMFKEF] (8%) - Lugstein, Alois - Bertagnolli, Emmerich - Zahoran, Miroslav [UKOMFKEF] (5%) - Roch, Tomáš [UKOMFKEF] (6%) - Kůš, Peter [UKOMFKEF] (8%) - Plecenik, Andrej [UKOMFKEF] (8%): Superconducting MgB<sub>2</sub> weak links and superconducting quantum interference devices prepared by AFM nanolithography  
Lit. 8 záz. n.

In: Physica C - Superconductivity and its Applications. - Vol. 468, No. 7-10 (2008), s. 789-792

*Indikátor časopisu:*

IF (JCR) 2008=0,740

*Ohlasy (2):*

[o1] 2009 Yang, X. Y. - You, L. X. - Wang, X. - Zhang, L. B. - Kang, L. - Wu, P. H.: Local anodic oxidation of superconducting NbN thin films by an atomic force microscope. In: Superconductor Science and Technology, Vol. 22, No. 12, 2009, Art.No. 125027 - SCI ; SCOPUS

[o1] 2011 Tseng, A. A.: Nanoscale scratching with single and dual sources using atomic force microscopes. In: TIP-based nanofabrication: fundamentals and applications. New York : Springer, 2011, S. 1-64 - BKCI-S

ADC66 Il'ichev, Evgeni - van der Ploeg, S. H. W. - Grajcar, Miroslav [UKOMFKEF] (20%) - Meyer, Hans-Georg: Weak continuous measurements of multiqubits systems  
Lit. 52 záz. n., 15 obr.

In: Quantum Information Processing. - Vol. 8, No. 2-3 (2009), s. 133-153

*Indikátor časopisu:*

IF (JCR) 2009=1,449

*Ohlasy (5):*

[o1] 2009 Ashhab, S. - You, J. Q. - Nori, F.: The information about the state of a qubit gained by a weakly coupled detector. In: New Journal of Physics, Vol. 11, 2009, Art. No. 083017 - SCI ; SCOPUS

[o1] 2009 Girvin, S. M. - Devoret, M. H. - Schoelkopf, R. J.: Circuit QED and engineering charge-based superconducting qubits. In: Physica Scripta, Vol. T137, 2009, Art. No. 014012 - SCI ; SCOPUS

- [o1] 2010 Pinto, R. A. - Korotkov, A. N. - Geller, M. R. - Shumeiko, V. S. - Martinis, J. M.: Analysis of a tunable coupler for superconducting phase qubits. In: Physical Review B, Vol. 82, No. 10, 2010, Art. No. 104522 - SCI ; SCOPUS
- [o1] 2010 Shevchenko, S. N. - Ashhab, S. - Nori, F.: Landau-Zener-Stueckelberg interferometry. In: Physics Reports, Vol. 492, No. 1, 2010, s. 1-30 - SCOPUS
- [o1] 2011 Xia, K. - Macovei, M. - Evers, J.: Stationary entanglement in strongly coupled qubits. In: Physical Review B, Vol. 84, No. 18, 2011, Art. No. 184510 - SCI ; SCOPUS

ADC67 Ifichev, Evgeni - Shevchenko, S. N. - van der Ploeg, S. H. W. - Grajcar, Miroslav [UKOMFKEF] (7%) - Temchenko, E. A. - Omelyanchouk, A. N. - Meyer, Hans-Georg: Multiphoton excitations and inverse population in a system of two flux qubits

Lit. 33 zázň., 2 obr.

In: Physical Review B. - Vol. 81, No. 1 (2010), Art. No. 012506, s. 1-4

*Indikátor časopisu:*

IF (JCR) 2010=3,772

*Ohlasy (5):*

[o1] 2010 Skinner, J. C. - Prance, H. - Stiffell, P. B. - Prance, R. J.: Sisyphus effects in a microwave-excited flux-qubit resonator system. In: Physical Review Letters, Vol. 105, No. 25, 2010, Art. No. 257002 - SCI ; SCOPUS

[o1] 2011 Johnson, M. W. - Amin, M. H. S. - Gildert, S. - Lanting, T. - Hamze, F. - Dickson, N. - Harris, R. - Berkley, A. J. - Johansson, J. - Bunyk, P. - Chapple, E. M. - Enderud, C. - Hilton, J. P. - Karimi, K. - Ladizinsky, E. - Ladizinsky, N. - Oh, T. - Perminov, I. - Rich, C. - Thom, M. C. - Tolkacheva, E. - Truncik, C. J. S. - Uchaikin, S. - Wang, J. - Wilson, B. - Rose, G.: Quantum annealing with manufactured spins. In: Nature, Vol. 473, No. 7346, 2011, s. 194-198 - SCI ; SCOPUS

[o1] 2012 Denisenko, M. V. - Satanin, A. M.: Multiphoton resonances in a system of interacting josephson qubits. In: Journal of Surface Investigation-X-Ray Synchrotron and Neutron Techniques, Vol. 6, No. 6, 2012, s. 990-996 - SCI ; SCOPUS

[o1] 2012 Satanin, A. M. - Denisenko, M. V. - Ashhab, S. - Nori, F.: Amplitude spectroscopy of two coupled qubits. In: Physical Review B, Vol. 85, No. 18, 2012, Art. No. 184524 - SCI ; SCOPUS

[o1] 2012 Sharypov, A. V. - Deng, X. - Tian, L.: Parametric four-wave mixing toolbox for superconducting resonators. In: Physical Review B, Vol. 86, No. 1, 2012, Art. No. 014516 - SCI ; SCOPUS

ADC68 Oelsner, Grgregor - van der Ploeg, S. H. W. - Macha, P. - Hübner, U. - Born, D. - Anders, S. - Ifichev, Evgeni - Meyer, Hans-Georg - Grajcar, Miroslav [UKOMFKEF] (7%) - Wunsch, S. - Siegel, M. - Omelyanchouk, A. N. - Astafiev, O.: Weak continuous monitoring of a flux qubit using coplanar waveguide resonator

Lit. 16 zázň., 3 obr.

In: Physical Review B. - Vol. 81, No. 17 (2010), Art. No. 172505, s. 1-4

*Indikátor časopisu:*

IF (JCR) 2010=3,772

*Ohlasy (5):*

[o1] 2011 Zhang, F. Y. - Liu, B. - Li, C. - Song, H. S.: Multi-qubits entangled state generation with multiple flux qubits coupled to a coplanar waveguide resonator. In: International Journal of Theoretical Physics, Vol. 50, No. 8, 2011, s.2560-2566 - SCI

[o1] 2012 Chipouline, A. - Sugavanam, S. - Fedotov, V. A. - Nikolaenko, A. E.: Analytical model for active metamaterials with quantum ingredients. In: Journal of Optics, Vol. 14, No. 11, 2012, Art. No. 114005 - SCI ; SCOPUS

[o1] 2013 Wang, J. Y. - Liou, S. - Chang, Y. C. - Lee, T. H. - Chen, K. W. - Lin, M. C. - Wu, C. S. - Kuo, W. - Chen, C.: Reduction of modal length using Josephson junction array confined cavity. In: Applied Physics Letters, Vol. 102, No. 14, 2013, Art. No. 142603 - SCI ; SCOPUS

[o1] 2013 Zhang, F. Y. - Chen, Z. H. - Li, C. - Song, H. S.: Simply quantum information processing with RF superconducting qubit. In: JETP Letters, Vol. 96, No. 12, 2013, s. 785-788 - SCI ; SCOPUS

[o1] 2013 Zhao, J. - Yu, Y. - Jin, B. B.: Transmission properties of a qubit-coupled-two-resonator system. In: IEEE Transactions on Applied Superconductivity, Vol. 23, No. 3, 2013, Art. No. 6420912 - SCI ; SCOPUS

ADC69 de Jesús Cuadra-Solís, P. (18%) - Hernandez, J. M. (18%) - Garcia-Santiago, A. (17%) - Tejada, J. (17%) -

- Noskovič, Jaroslav [UKOMF000d] (10%) - Pidík, Andrej [UKOMF000d] (10%) - Grajcar, Miroslav [UKOMFKEF] (10%): Vortex avalanches induced by single high-frequency pulses in MgB(2) films  
Lit. 30 zázň.  
In: Journal of Superconductivity and Novel Magnetism. - Vol. 24, No. 1-2 (2011), s. 395-400  
*Indikátor časopisu:*  
IF (JCR) 2011=0,650
- ADC70 Ivanov, B. I. (27%) - Trgala, Marián [UKOMF000d] (10%) - Grajcar, Miroslav [UKOMFKEF] (10%) - Il'ichev, Evgeni (27%) - Meyer, Hans-Georg (26%): Cryogenic ultra-low-noise SiGe transistor amplifier  
Lit. 8 zázň.  
In: Review of Scientific Instruments. - Vol. 82, No. 10 (2011), Art. No. 104705, s. 1-3  
*Indikátor časopisu:*  
IF (JCR) 2011=1,367  
*Ohlasy (3):*  
[o1] 2012 Beev, N. - Kiviranta, M.: Note: Cryogenic low-noise dc-coupled wideband differential amplifier based on SiGe heterojunction bipolar transistors. In: Review of Scientific Instruments, Vol. 83, No. 6, 2012, Art. No. 066107 - SCI ; SCOPUS  
[o1] 2012 Lin, T. Y. - Green, R. J. - O'Connor, P. B.: A low noise single-transistor transimpedance preamplifier for Fourier-transform mass spectrometry using a T feedback network. In: Review of Scientific Instruments, Vol. 83, No. 9, 2012, Art. No. 094102 - SCI ; SCOPUS  
[o1] 2013 Beev, N. - Kiviranta, M.: Fully differential cryogenic transistor amplifier. In: Cryogenics, Vol. 57, 2013, s. 129-133 - SCI ; SCOPUS
- ADC71 Neilinger, Pavol [UKOMFKEF] (40%) - Trgala, Marián [UKOMF000d] (30%) - Grajcar, Miroslav [UKOMFKEF] (30%): Cryogenic low noise 2.2 3 GHz amplifier  
Lit. 9 zázň.  
In: Cryogenics. - Vol. 52, No. 7-9 (2012), s. 362-365  
*Indikátor časopisu:*  
IF (JCR) 2012=1,17
- ADC72 Oelsner, Grgregor (15%) - Macha, P. (15%) - Astafiev, O. V. (15%) - Il'ichev, Evgeni (10%) - Grajcar, Miroslav [UKOMFKEF] (10%) - Hübner, U. (10%) - Ivanov, B. I. (10%) - Neilinger, Pavol [UKOMFKEF] (10%) - Meyer, Hans-Georg (5%): Dressed-state amplification by a single superconducting qubit  
Lit. 28 zázň., 4 obr.  
In: Physical Review Letters. - Vol. 110, No. 5 (2013), Art. No. 053602, s. 1-5  
*Indikátor časopisu:*  
IF (JCR) 2013=7,728  
*Ohlasy (8):*  
[o1] 2013 Chestnov, I. Y. - Alodjants, A. P. - Arakelian, S. M.: Lasing and high-temperature phase transitions in atomic systems with dressed-state polaritons. In: Physical Review A, Vol. 88, No. 6, 2013, Art. No. 063834 - SCI ; SCOPUS  
[o1] 2013 De Graaf, S. E. - Leppakangas, J. - Adamyan, A. - Danilov, A. V. - Lindstrom, T. - Fogelstrom, M. - Bauch, T. - Johansson, G. - Kubatkin, S. E.: Charge qubit coupled to an intense microwave electromagnetic field in a superconducting Nb device: Evidence for photon-assisted quasiparticle tunneling. In: Physical Review Letters, Vol. 111, No. 13, 2013, Art. No. 137002 - SCI ; SCOPUS  
[o1] 2013 Koshino, K. - Terai, H. - Inomata, K. - Yamamoto, T. - Qiu, W. - Wang, Z. - Nakamura, Y.: Observation of the three-state dressed states in circuit quantum electrodynamics. In: Physical Review Letters, Vol. 110, No. 26, 2013, Art. No. 263601 - SCI ; SCOPUS  
[o1] 2014 Feng, Z. B. - Li, M.: High-fidelity quantum state transfer using Cooper-pair box qubits. In: Physica C: Superconductivity and Its Applications, Vol. 507, 2014, s. 65-69 - SCI ; SCOPUS  
[o1] 2014 Li, H. C. - Ge, G. Q. - Feng, S. B.: Dressed Zeno effect in circuit quantum electrodynamics. In: Physical Review A, Vol. 89, No. 6, 2014, Art. No. 062119 - SCI ; SCOPUS  
[o1] 2014 Liu, Y. X. - Yang, C. X. - Sun, H. C. - Wang, X. B.: Coexistence of single- and multi-photon processes due to longitudinal couplings between superconducting flux qubits and external fields. In: New Journal of Physics, Vol. 16, 2014, Art. No. 015031 - SCI ; SCOPUS

[o1] 2014 Saiko, A. P. - Fedaruk, R. - Markevich, S. A.: Relaxation, decoherence, and steady-state population inversion in qubits doubly dressed by microwave and radiofrequency fields. In: Journal of Physics B: Atomic, Molecular and Optical Physics, Vol. 47, No. 15, 2014, Art. No. 155502 - SCI ; SCOPUS  
[o1] 2015 Li, H. C. - Ge, G. Q. - Zhang, H. Y.: Dressed-state realization of the transition from electromagnetically induced transparency to Autler-Townes splitting in superconducting circuits. In: Optics Express, Vol. 23, No. 8, 2015, s.9844-9851 - SCI

ADC73 Reháč, Matúš [UKOMFKEFd] (20%) - Neilinger, Pavol [UKOMFKEF] (20%) - Grajcar, Miroslav [UKOMFKEF] (20%) - Oelsner, Ggregor (10%) - Huebner, U. (10%) - Il'ichev, Evgeni (10%) - Meyer, Hans-Georg (10%): Parametric amplification by coupled flux qubits  
Lit. 35 záz. n.  
In: Applied Physics Letters. - Vol. 104, No. 16 (2014), Art. No. 162604, s. 1-5  
*Indikátor časopisu:*  
IF (JCR) [2013-3,515]

ADC74 Shevchenko, S. N. (12%) - Oelsner, Ggregor (11%) - Greenberg, Ya. S. (11%) - Macha, P. (11%) - Karpov, D. S. (11%) - Grajcar, Miroslav [UKOMFKEF] (11%) - Hübner, U. (11%) - Omelyanchouk, A. N. (11%) - Il'ichev, Evgeni (11%): Amplification and attenuation of a probe signal by doubly dressed states  
Lit. 45 záz. n.  
In: Physical Review B. - Vol. 89, No. 18 (2014), Art. No. 184504, s. 1-10  
URL: <http://arxiv.org/pdf/1309.2619v2.pdf>  
*Indikátor časopisu:*  
IF (JCR) [2013-3,664]  
POZNÁMKA:

Vyšlo aj - arXiv.org: Mesoscale and Nanoscale Physics (cond-mat.mes-hall) [elektronický zdroj]. - No. arXiv:1309.2619v2 [cond-mat.mes-hall] (2014), s. 1-10 [online]

*Ohlasy (1):*

[o1] 2014 Saiko, A. P. - Fedaruk, R. - Markevich, S. A.: Relaxation, decoherence, and steady-state population inversion in qubits doubly dressed by microwave and radiofrequency fields. In: Journal of Physics B: Atomic, Molecular and Optical Physics, Vol. 47, No. 15, 2014, Art. No. 155502 - SCI ; SCOPUS

ADC75 Szabó, P. (20%) - Neilinger, Pavol [UKOMFKEF] (20%) - Trgala, Marián [UKOMF000d] (20%) - Grajcar, Miroslav [UKOMFKEF] (20%) - Samuely, P. (20%): Superconductivity near transition to insulating state in MoC ultrathin films studied by subkelvin STM  
Lit. 6 záz. n., 2 obr.  
In: Acta Physica Polonica A. - Vol. 126, No. 1 (2014), s. 368-369  
[CSMAG 2013 : Czech and Slovak Conference on Magnetism. 15th, Košice, 17.-21.6.2013]  
*Indikátor časopisu:*  
IF (JCR) [2013-0,604]

ADC76 Trgala, Marián [UKOMF000d] (20%) - Žemlička, Martin [UKOMFKEFd] (15%) - Neilinger, Pavol [UKOMFKEF] (15%) - Reháč, Matúš [UKOMFKEFd] (10%) - Leporis, Marek [UKOEXFM] (10%) - Gaži, Š. (5%) - Greguš, Ján [UKOMFKEF] (5%) - Plecenik, Tomáš [UKOMFKEF] (5%) - Roch, Tomáš [UKOMFKEF] (5%) - Dobročka, Edmund (5%) - Grajcar, Miroslav [UKOMFKEF] (5%): Superconducting MoC thin films with enhanced sheet resistance  
Lit. 7 záz. n.  
In: Applied Surface Science. - Vol. 312 (2014), s. 216-219  
[SSSI 2013 : Solid State Surfaces and Interfaces : Conference. 8th, Smolenice, 25.-28.11.2013]  
*Indikátor časopisu:*  
IF (JCR) [2013-2,538]

ADC77 Žemlička, Martin [UKOMFKEFd] (30%) - Neilinger, Pavol [UKOMFKEF] (25%) - Trgala, Marián [UKOMF000d] (10%) - Gregor, Maroš [UKOMFKEF] (5%) - Plecenik, Tomáš [UKOMFKEF] (5%) - Ďurina, Pavol [UKOMFKEF] (5%) - Grajcar, Miroslav [UKOMFKEF] (20%): Superconducting properties of magnesium diboride thin film measured by using coplanar waveguide resonator  
Lit. 12 záz. n.

In: Applied Surface Science. - Vol. 312 (2014), s. 231-234  
[SSSI 2013 : Solid State Surfaces and Interfaces : Conference. 8th, Smolenice, 25.-28.11.2013]  
*Indikátor časopisu:*  
IF (JCR) [2013-2,538]

ADC78 Neilinger, Pavol [UKOMFKEF] (30%) - Rehák, Matúš [UKOMFKEFd] (20%) - Grajcar, Miroslav [UKOMFKEF] (20%) - Oelsner, Ggregor (10%) - Hübner, Uwe (10%) - Il'ichev, Evgeni (10%): Two-photon lasing by a superconducting qubit  
Lit. 13 zázň., 4 obr., 1 tab.  
In: Physical Review B. - Vol. 91, No. 10 (2015), Art. No 104516, s. 1-4  
*Registrované v:* vos  
*Indikátor časopisu:*  
IF (JCR) [2013-3,664]

ADC79 Neilinger, Pavol [UKOMFKEF] (20%) - Oelsner, Ggregor (16%) - Grajcar, Miroslav [UKOMFKEF] (16%) - Ivanov, B. I. (16%) - Novikov, I. L. (16%) - Il'ichev, Evgeni (16%): A microwave splitter for superconducting quantum circuits  
Lit. 7 zázň.  
In: Technical Physics Letters. - Vol. 41, No. 4 (2015), s. 314-316  
*Registrované v:* vos  
*Indikátor časopisu:*  
IF (JCR) [2013-0,583]  
POZNÁMKA:  
Vyšlo aj - Pisma v Žurnal techniĉeskoj fiiziki. - Tom 41, vyp. 7 (2015), s. 16-21

ADC80 Zippilli, Stefano (25%) - Grajcar, Miroslav [UKOMFKEF] (25%) - Il'ichev, Evgeni (25%) - Illuminati, Fabrizio (25%): Simulating long-distance entanglement in quantum spin chains by superconducting flux qubits  
Lit. 62 zázň., 14 obr.  
In: Physical Review A. - Vol. 91, No. 2 (2015), Art. No. 2315, s. 1-12  
*Registrované v:* vos, scopus  
*Indikátor časopisu:*  
IF (JCR) [2013-2,991]  
*Ohlasy (1):*  
[o1] 2015 Wendenbaum, P. - Platini, T. - Karevski, D.: Entanglement replication via quantum repeated interactions. In: Physical Review A, Vol. 91, No. 4, 2015, Art. No. 040303 - SCI ; SCOPUS

#### **ADD Vedecké práce v domácich karentovaných časopisoch**

ADD01 Plecenik, Tomáš [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Izmalkov, A. - Il'ichev, Evgeni: Computation of energy levels of N inductively coupled superconducting flux qubits  
Lit. 8 zázň., 5 obr.  
In: Acta Physica Slovaca. - Vol. 56, No. 1 (2006), s. 15-19  
*Indikátor časopisu:*  
IF (JCR) 2006=0,647

#### **ADE Vedecké práce v ostatných zahraniĉných časopisoch**

ADE01 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Darula, Marián - Beňaĉka, Štefan: Interaction of electrodes in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>/metal tunnel junctions  
In: Fizika nizkikh temperatur. - Vol. 6, No. 18 (1992), s. 615-617  
*Indikátor časopisu:*  
IF (JCR) 1992=0,362  
*Ohlasy (1):*  
[o1] 1998 Kupka, M.: The effect of the superconductive-electrode transition surface region on the contact differential conductance. In: Physica C, Vol. 303, No. 1-2, 1998, s. 131-140 - SCI ; SCOPUS

ADE02 Zagoskin, Alexandre M. (20%) - Il'ichev, Evgeni (20%) - Grajcar, Miroslav [UKOMFKEF] (20%) - Betouras, Joseph J. (20%) - Nori, Franco (20%): How to test the quantumness of a quantum computer? Popis urobený 23.2.2015  
Lit. 38 zázň.  
In: Frontiers in Physics [elektronický zdroj]. - Roč. 2, č. 33 (2014), s. 1-4 [online]  
URL: <http://journal.frontiersin.org/article/10.3389/fphy.2014.00033/full>

#### **AFC Publikované príspevky na zahraničných vedeckých konferenciách**

- AFC01 Plecenik, Andrej [UKOMFKEF] - Beňačka, Štefan - Mikušik, Peter - Darula, Marián - Grajcar, Miroslav [UKOMFKEF]: Tunneling study of energy gap in high Tc superconductors  
In: Proceedings of 22nd International Symposium. - Singapore : World Scientific, 1991. - S. 29-33. - ISBN 981-02-0797-2  
[Superconductivity and Cryoelectronics 1990 : International Symposium. 22nd, Georghental, 11.1990]  
*Ohlasy (1)*:  
[o1] 1993 Takács, S.: Critical-temperature and energy-gap in superconductors with singular density-of-states.  
In: Czechoslovak Journal of Physics, Vol. 43, No. 11, 1993, s. 1129-1136 - SCI
- AFC02 Grajcar, Miroslav [UKOMFKEF] - Revenko, Jurij - Plecenik, Andrej [UKOMFKEF] - Svistunov, Vladimír M. - Beňačka, Štefan: The time dependence of point contact resistance observed on YBaCuOx/metal and BiSrCaCuOy/metal junctions  
In: Proceedings of the International Conference on Tunneling Spectroscopy. - Moskva : Akademiya nauk, 1992. - S. 39-55  
[Tunneling Spectroscopy 1992 : International Conference. Doneck, 9.1992]
- AFC03 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Beňačka, Štefan - Seidel, Paul - Pfuch, Andreas: Characterization of YBCO and BSCCO materials by tunneling spectroscopy  
In: Applied Superconductivity 1993. - Oberrusel : DGM, 1993. - S. 85-91  
[EUCAS 1993 : European Conference of Applied Superconductivity. 1st, Göttingen, 4.-8.10.1993]
- AFC04 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Seidel, Paul - Beňačka, Štefan - Nebel, R. - Schmauder, Torst - Karlovský, Kamil: Change of tunneling barrier properties on YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>-Au point contact by applied bias voltage  
Lit. 16 zázň., 2 obr.  
In: Applied Superconductivity 1995 : Proceedings of EUCAS 1995, Vol. 2: Small Scale Applications. - Bristol : Institute of Physics Publishing, 1995. - S. 1681-1684. - ISBN 0-7503-0348-4  
[EUCAS 1995 : European Conference of Applied Superconductivity. 2nd, Edinburgh, 3.-6.7.1995]
- AFC05 Seidel, Paul - Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Belogolovskii, Mikhail A. - Matthes, Andreas - Zuzčák, Máriaus: Influence of degraded surface layer of HTS on differential conductance of HTS/metal junctions  
Lit. 30 zázň., 7 obr.  
In: Superconducting Superlattices II: Native and Artificial. - Bellingham : SPIE, 1998. - S. 67-76. - ISBN 0-8194-2935-X  
[Optical Science, Engineering, and Instrumentation 1998 : International Symposium. San Diego, 19.-24.7.1998]
- AFC06 Praščák, Mikuláš [UKOMF000d] - Grajcar, Miroslav [UKOMFKEF]: Nízkošumový RF zosilňovač pre kryogénne merania  
Lit. 3 zázň.  
In: Moderní trendy ve fyzice plazmatu a pevných látek II. - Brno : Masarykova univerzita, 2006. - S. 109-112. - ISBN 80-210-4195-1  
[Moderní trendy ve fyzice plazmatu a pevných látek 2006 : seminář. 2., Hustopeče, 19.10.2006]
- AFC07 Shukrinov, Yu. M. (10%) - Seidel, Paul (10%) - Il'ichev, Evgeni (10%) - Nawrocki, W. (10%) - Grajcar, Miroslav [UKOMFKEF] (20%) - Plecenik, Andrej [UKOMFKEF] (20%) - Rahmonov, I. R. (10%) - Kulikov,

K. (10%): Resonance features of coupled Josephson junctions: radiation and shunting

Lit. 55 zázň.

In: Journal of Physics - Conference Series. - Vol. 393, No. 1 (2012), Art. No. 012020, s. 1-8  
[Dubna-Nano 2012 : Theoretical Physics International Conference. 3rd, Dubna, 9.-14.7.2012]

*Ohlasy (1):*

[o1] 2014 Yamapi, R. - Filatrella, G.: Noise effects on a birhythmic Josephson junction coupled to a resonator.

In: Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, Vol. 89, No. 5, 2014, Art. No. 052905  
- SCI ; SCOPUS

#### **AFD Publikované príspevky na domácich vedeckých konferenciách**

AFD01 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Darula, Marián - Beňačka, Štefan:  
Surface degradation of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> materials observed by tunneling spectroscopy

Lit. 12 zázň.

In: Proceedings of the 6th International Symposium on Weak Superconductivity. - Singapore : World  
Scientific, 1991 981-02-0795-6. - S. 98-104

[Weak Superconductivity 1991 : International Symposium. 6th, Smolenice, 20.-24.5.1991]

AFD02 Plecenik, Andrej [UKOMFKEF] - Beňačka, Štefan - Darula, Marián - Grajcar, Miroslav [UKOMFKEF]:  
Multigap structure measured by tunneling spectroscopy on the YBa<sub>2</sub>CuO<sub>7-x</sub> materials

In: Proceedings of the 6th International Symposium on Weak Superconductivity. - Singapore : World  
Scientific, 1991. - S. 92-97. - ISBN 981-02-0795-6

[Weak Superconductivity 1991 : International Symposium. 6th, Smolenice, 20.-24.5.1991]

*Ohlasy (1):*

[o1] 1995 Ponomarev, Y. G. - Aminov, B. A. - Hein, M. A. - Heinrichs, H. - Kresin, V. Z. - Muller, G. - Piel,  
H.: Josephson effect and single-particle tunneling in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> and YbBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> single-crystal break  
junctions. In: Physica C, Vol. 243, No. 1-2, 1995, s. 167-176 - SCI

AFD03 Grajcar, Miroslav [UKOMFKEF] - Revenko, Jurij - Plecenik, Andrej [UKOMFKEF] - Beňačka, Štefan -  
Svistunov, Vladimír M. - Chromik, Štefan - Kúš, Peter [UKOMFKEF]: Oxygen diffusion in surface layer of  
high-T<sub>c</sub> superconductors

Lit. 13 zázň, 2 obr.

In: Macroscopic Quantum Phenomena. - Bratislava : SAV, 1992. - S. 265-268. - ISBN 80-900506-2-X

[Macroscopic Quantum Phenomena 1992 : International Conference. 2nd, Smolenice, 31.8.-4.9.1992]

AFD04 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Seidel, Paul: Influence of inelastic  
effect on differential conductance of high-T<sub>c</sub> superconductor/metal junctions

In: Weak Superconductivity. - Bratislava : SAV, 1994. - S. 54-59. - ISBN 80-900506-3-8

[Weak Superconductivity 1994 : International Symposium. 7th, Smolenice, 6.-10.6.1994]

AFD05 Grajcar, Miroslav [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF] - Seidel, Paul - Beňačka, Štefan - Kúš,  
Peter [UKOMFKEF] - Pfuch, Andreas - Nebel, R. - Chromik, Štefan: Time evolution of differential resistances  
of high-T<sub>c</sub> superconductor/metal pointcontacts at various DC bias voltage at room temperature

In: Weak Superconductivity. - Bratislava : SAV, 1994. - S. 103-107. - ISBN 80-900506-3-8

[Weak Superconductivity 1994 : International Symposium. 7th, Smolenice, 6.-10.6.1994]

AFD06 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Seidel, Paul - Nebel, R. - Darula,  
Marián - Beňačka, Štefan: Modification of high-T<sub>c</sub> superconductor surface properties by electric field: Room  
temperature case

In: Weak Superconductivity. - Bratislava : SAV, 1994. - S. 96-101. - ISBN 80-900506-3-8

[Weak Superconductivity 1994 : International Symposium. 7th, Smolenice, 6.-10.6.1994]

*Ohlasy (1):*

[o1] 1995 Ponomarev, Y. G. - Aminov, B. A. - Hein, M. A. - Heinrichs, H. - Kresin, V. Z. - Muller, G. - Piel,  
H. - Rosner, K. - Tchesnokov, S. V. - Tsokur, E. B. - Wehler, D. - Winzer, K. - Yarygin, A. V. - Yusupov, K.  
T.: Josephson effect and single-particle tunneling in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> and YbBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> single-crystal break  
junctions. In: Physica C, Vol. 243, No. 1-2, 1995, s. 167-176 - SCI



- AFD07 Plecenik, Andrej [UKOMFKEF] - Pfuch, Andreas - Seidel, Paul - Grajcar, Miroslav [UKOMFKEF] - Beňačka, Štefan: Point contact measurement of Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+y</sub>/SrTiO<sub>3</sub>-Au junctions with different thicknesses of SrTiO<sub>3</sub>  
Lit. 12 zázň., 3 obr.  
In: Weak Superconductivity. - Bratislava : SAV, 1994. - S. 116-120. - ISBN 80-900506-3-8  
[Weak Superconductivity 1994 : International Symposium. 7th, Smolenice, 6.-10.6.1994]
- AFD08 Plecenik, Andrej [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF]: Differential conductance of YBCO/metal junctions with native tunneling barrier  
Lit. 6 zázň., 3 obr.  
In: Modelling and Simulation of Non-linear Engineering Systems and Related Phenomena : 3rd Japan-Central Europe Joint Workshop : Proceedings. - Bratislava : Comenius University, 1998. - S. 157-160  
[Japan-Central Europe Joint Workshop 1998 : Modelling and Simulation of Non-linear Engineering Systems and Related Phenomena. 3rd, Bratislava, 27.-30.9.1998]
- AFD09 Grajcar, Miroslav [UKOMFKEF]: Supravodivé transportné vlastnosti YBaCuO Josephsonových spojov  
Lit. 4 zázň., 4 obr.  
In: 12. konferencia slovenských fyzikov : Zborník príspevkov. - Košice : Slovenská fyzikálna spoločnosť, 2002. - S. 78-79. - ISBN 80-968655-5-2  
[Konferencia slovenských fyzikov 2001. 12., Smolenice, 3.-5.9.2001]
- AFD10 Gregor, Maroš [UKOMFKEF] (20 %) - Plecenik, Tomáš [UKOMFKEF] (20 %) - Praščák, Mikuláš [UKOMF000d] (15 %) - Mičunek, Radovan (5 %) - Kubinec, Milan [UKOMFKEF] (5 %) - Gašparik, Vladimír [UKOMF000] (5 %) - Grajcar, Miroslav [UKOMFKEF] (10 %) - Štefečka, Miloslav (5 %) - Leporis, Marek [UKOEXFM] (5 %) - Kúš, Peter [UKOMFKEF] (5 %) - Plecenik, Andrej [UKOMFKEF] (5 %): Supravodivý kvantový interferometer pripravený pomocou AFM nanolitografie  
Lit. 12 zázň.  
In: The 3rd Seminar on New Trends in Plasma Physics and Solid State Physics. - Bratislava : Knizničnè a edičnè centrum FMFI UK, 2007. - S. 35-38. - ISBN 978-80-89186-24-2  
[New Trends in Plasma Physics and Solid State Physics 2007 : Seminar. 3rd, Bratislava, 4.10.2007]
- AFD11 Praščák, Mikuláš [UKOMF000d] - Kundracik, František [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Gregor, Maroš [UKOMFKEF] - Plecenik, Tomáš [UKOMFKEF] - Mičunek, Radovan - Kúš, Peter [UKOMFKEF] - Plecenik, Andrej [UKOMFKEF]: High sensitivity apparatus for cryogenic RF-measurements of superconducting microstructures  
Lit. 5 zázň., 5 obr.  
In: 13th International Conference on Applied Physics of Condensed Matter : Proceedings. - Žilina : University of Žilina, 2007. - S. 259-262. - ISBN 978-80-8070-709-5  
[APCOM 2007 : Applied Physics of Condensed Matter : International Conference. 13th, Liptovský Ján-Bystrá, 27.-29.6.2007]
- AFD12 Trgala, Marián [UKOMF000d] (30%) - Leporis, Marek [UKOEXFM] (20%) - Plecenik, Tomáš [UKOMFKEF] (10%) - Neilinger, Pavol [UKOMFKEF] (10%) - Grajcar, Miroslav [UKOMFKEF] (20%) - Kúš, Peter [UKOMFKEF] (5%) - Plecenik, Andrej [UKOMFKEF] (5%): MoCsuperconducting thin films for CPW resonator and phase slip qubits  
Príspevok bol prednesený na dvoch konferenciách  
Lit. 5 zázň., 5 obr.  
In: 17th Conference of Slovak Physicists Proceedings [elektronický zdroj]. - Bratislava : Slovak Physical Society, 2009. - S. 185-186 [CD-ROM]. - ISBN 978-80-969124-7-6  
[Konferencia slovenských fyzikov 2009. 17., Bratislava, 16.-19.9.2009]  
[APCOM 2010 : Applied Physics of Condensed Matter : International Conference. 16th, Malá Lúčivná, 16.-18.6.2010]  
POZNÁMKA:  
Vyšlo aj - Applied Physics of Condensed Matter. - Bratislava: FEI STU, 2010. - S. 284-287. - ISBN: 978-80-227-3307-6.

- AFD13 Neilinger, Pavol [UKOMFKEF] (25%) - Trgala, Marián [UKOMF000d] (25%) - Leporis, Marek [UKOEXFM] (25%) - Grajcar, Miroslav [UKOMFKEF] (25%): Measurement apparatus for superconducting QBITS in GHZ range  
Lit. 4 zázň., 3 obr.  
In: 17th International Conference on Applied Physics of Condensed Matter. - Źilina : University of Źilina, 2011. - S. 168-171. - ISBN 978-80-554-0386-1  
[APCOM 2011 : Applied Physics of Condensed Matter : International Conference. 17th, Nový Smokovec, 22.-24.6.2011]
- AFD14 Hrebíková, Ivana [UKOMF000d] (40%) - Grajcar, Miroslav [UKOMFKEF] (20%) - Neilinger, Pavol [UKOMFKEF] (20%) - Trgala, Marián [UKOMF000d] (20%): Tunable superconducting metamaterials  
Recenzované  
Lit. 9 zázň.  
In: 17th Conference of Czech and Slovak Physicists: Proceedings. - Košice : Slovak Physical Society, 2012. - S. 103-104. - ISBN 978-80-970625-4-5  
[Conference of Czech and Slovak Physicists 2011. 17th, Źilina, 5.-8.9.2011]
- AFD15 Neilinger, Pavol [UKOMFKEF] (35%) - Trgala, Marián [UKOMF000d] (20%) - Hrebíková, Ivana [UKOMF000d] (10%) - Mikula, Marián [UKOMFKEF] (5%) - Leporis, Marek [UKOEXFM] (10%) - Zahoran, Miroslav [UKOMFKEF] (5%) - Truchlý, Martin [UKOMFKEFs] (5%) - Grajcar, Miroslav [UKOMFKEF] (10%): Nonlinearity in superconducting titanium nitride coplanar waveguide resonators  
Recenzované  
Lit. 9 zázň.  
In: 18th International Conference on Applied Physics of Condensed Matter. - Bratislava: FEI STU, 2012. - S. 118-120. - ISBN 978-80-227-3720-3  
[APCOM 2012 : Applied Physics of Condensed Matter : International Conference. 18th, Štrbské Pleso, 20.-22.6.2012]
- AFD16 Neilinger, Pavol [UKOMFKEF] (15%) - Rehák, Matúš [UKOMFKEFd] (15%) - Gregor, Maroš [UKOMFKEF] (15%) - Źemlička, Martin [UKOMFKEFd] (15%) - Plecenik, Tomáš [UKOMFKEF] (10%) - Trgala, Marián [UKOMF000d] (10%) - Źurina, Pavol [UKOMFKEF] (10%) - Grajcar, Miroslav [UKOMFKEF] (10%): Periodic response of superconducting high quality MgB2 resonator to magnetic field  
Lit. 13 zázň.  
In: 19th International Conference on Applied Physics of Condensed Matter. - Bratislava : FEI STU, 2013. - S. 107-110. - ISBN 978-80-227-3956-6  
[APCOM 2013 : Applied Physics of Condensed Matter : International Conference. 19th, Štrbské Pleso, 19.-21.6.2013]
- AFD17 Rehák, Matúš [UKOMFKEFd] (20%) - Neilinger, Pavol [UKOMFKEF] (20%) - Grajcar, Miroslav [UKOMFKEF] (20%) - Oelsner, Ggregor (10%) - Macha, P. (10%) - Hübner, U. (10%) - Il'ichev, Evgeni (10%): Parametric amplification using nonlinearity of a qubit  
Lit. 10 zázň.  
In: 19th International Conference on Applied Physics of Condensed Matter. - Bratislava : FEI STU, 2013. - S. 46-49. - ISBN 978-80-227-3956-6  
[APCOM 2013 : Applied Physics of Condensed Matter : International Conference. 19th, Štrbské Pleso, 19.-21.6.2013]
- AFD18 Neilinger, Pavol [UKOMFKEF] (30%) - Rehák, Matúš [UKOMFKEFd] (25%) - Hübner, Uwe (15%) - Il'ichev, Evgeni (15%) - Grajcar, Miroslav [UKOMFKEF] (15%): Mach-Zehnder interferometry in an artificial quantum two level system  
Lit. 12 zázň.  
In: 20th International Conference on Applied Physics of Condensed Matter. - Bratislava : FEI STU, 2014. - S. 26-29. - ISBN 978-80-227-4179-8  
[APCOM 2014 : Applied Physics of Condensed Matter : International Conference. 20th, Štrbské Pleso, 25.-27.6.2014]

*Ohlasy (1):*

[o1] 2015 Blattmann, R. - Hanggi, P. - Kohler, S.: Qubit interference at avoided crossings: The role of driving shape and bath coupling. In: Physical Review A, Vol. 91, No. 4, 2015, Art. No. 042109 - SCI ; SCOPUS

AFD19 Rehák, Matúš [UKOMFKEFd] (20%) - Neilinger, Pavol [UKOMFKEF] (16%) - Grajcar, Miroslav [UKOMFKEF] (16%) - Šoltýs, Jakub [UKOMFKEFd] (16%) - Precner, M. (16%) - Cambel, Vladimír (16%): FMR spectroscopy of permalloy thin films in dielectric resonator

Recenzované

Lit. 7 záz. n.

In: 20. konferencia slovenských fyzikov. - Bratislava : Slovenská fyzikálna spoločnosť, 2014. - S. 71-72. - ISBN 978-80-971450-2-6

[Konferencia slovenských fyzikov 2013. 20., Bratislava, 2.-5.9.2013]

AFD20 Rehák, Matúš [UKOMFKEFd] (30%) - Neilinger, Pavol [UKOMFKEF] (25%) - Žemlička, Martin [UKOMFKEFd] (15%) - Manca, D. (10%) - Hübner, Uwe (10%) - Il'ichev, Evgeni (5%) - Grajcar, Miroslav [UKOMFKEF] (5%): Switching effect in SQUIDs coupled by Josephson junction

Lit. 11 záz. n.

In: 20th International Conference on Applied Physics of Condensed Matter. - Bratislava : FEI STU, 2014. - S. 304-307. - ISBN 978-80-227-4179-8

[APCOM 2014 : Applied Physics of Condensed Matter : International Conference. 20th, Štrbské Pleso, 25.-27.6.2014]

AFD21 Žemlička, Martin [UKOMFKEFd] (70%) - Manca, D. (10%) - Neilinger, Pavol [UKOMFKEF] (10%) - Grajcar, Miroslav [UKOMFKEF] (10%): Cryogenic carbon powder filters for superconducting qubit measurements

Lit. 5 záz. n.

In: Proceedings of ADEPT 2014. - Žilina : University of Žilina, 2014. - S. 204-207. - ISBN 978-80-554-0881-1

[ADEPT 2014 : Advances in Electronic and Photonic Technologies : International Conference. 2nd, Tatranská Lomnica, 1.-4.6.2014]

AFD22 Žemlička, Martin [UKOMFKEFd] (25%) - Neilinger, Pavol [UKOMFKEF] (20%) - Rehák, Matúš [UKOMFKEFd] (20%) - Trgala, Marián [UKOMF000d] (10%) - Manca, D. (10%) - Hübner, Uwe (5%) - Il'ichev, Evgeni (5%) - Grajcar, Miroslav [UKOMFKEF] (5%): Transport properties of nanobridges created on molybdenum carbide superconducting thin films

Lit. 11 záz. n.

In: 20th International Conference on Applied Physics of Condensed Matter. - Bratislava : FEI STU, 2014. - S. 224-227. - ISBN 978-80-227-4179-8

[APCOM 2014 : Applied Physics of Condensed Matter : International Conference. 20th, Štrbské Pleso, 25.-27.6.2014]

**AFI Preprinty vedeckých prác vydané v zahraničných vydavateľstvách**

AFI01 Hlubina, Richard [UKOMFKEF] - Grajcar, Miroslav [UKOMFKEF] - Mráz, Juraj [UKOMF000d]:

Josephson effect as a measure of quantum fluctuations in the cuprates

Popis urobený 16.2.2006

Lit. 15 záz. n., 5 obr.

In: arXiv.org: Condensed Matter [elektronický zdroj]. - No. cond-mat/0304213 (2003), 4 s. [online]

URL: [http://www.arxiv.org/PS\\_cache/cond-mat/pdf/0304/0304213.pdf](http://www.arxiv.org/PS_cache/cond-mat/pdf/0304/0304213.pdf)

*Ohlasy (3):*

[o1] 2005 Aligia, A. A. - Kampf, A. P. - Mannhart, J.: Quartet formation at (100)/(110) interfaces of d-wave superconductors. In: Physical Review Letters, Vol. 94, No. 24, 2005, Art. No. 247004 - SCI

[o1] 2005 Greenberg, Y. S. - Novikov, I. L. - Schultze, V. - Meyer, H. G.: The influence of the second harmonic in the current-phase relation on the voltage-current characteristic of high T-C DC SQUID. In: European Physical Journal B, Vol. 44, No. 1, 2005, s. 57-62 - SCI

[o1] 2006 Hilario, L. M. L. - Aligia, A. A.: hc/4e oscillations in a model for (100)/(110) SQUIDs of d-wave superconductors. In: Physica C-Superconducting and its Applications, Vol. 434, No. 2, 2006, s. 147-152 - SCI

### **BBB Kapitoly v odborných knižných publikáciách vydané v domácich vydavateľstvách**

BBB01 Grajcar, Miroslav [UKOMFKEF] (100%) : Makroskopické kvantové javy v supravodivých štruktúrach  
Lit. 36 záz. , 17 obr.  
In: Kryofyzika a nanoelektronika. - Košice : SAV, 2011. - S. 97-156. - ISBN 978-80-968060-9-6

### **BCI Skriptá a učebné texty**

BCI01 Maheľ, Michal [UKOMFKEF] (40 %) - Grajcar, Miroslav [UKOMFKEF] (20 %) - Kúš, Peter [UKOMFKEF] (20 %) - Plecenik, Andrej [UKOMFKEF] (20 %): Supravodivosť. - Bratislava : Univerzita Komenského, 1997. - 113 s.

### **BEF Odborné práce v domácich zborníkoch (konferenčných aj nekonferenčných)**

BEF01 Plecenik, Tomáš [UKOMFKEF] (20%) - Gregor, Maroš [UKOMFKEF] (20%) - Praščák, Mikuláš [UKOMF000d] (15%) - Mičunek, Radovan (10%) - Grajcar, Miroslav [UKOMFKEF] (10%) - Zahoran, Miroslav [UKOMFKEF] (5%) - Roch, Tomáš [UKOMFKEF] (5%) - Gašparík, Vladimír [UKOMF000] (5%) - Kúš, Peter [UKOMFKEF] (5%) - Plecenik, Andrej [UKOMFKEF] (5%): Supravodivé MgB2 slabé spoje a supravodivé kvantové interferometre pripravené AFM nanolitografiou  
Lit. 1 záz. n.  
In: The 3rd Seminar on New Trends in Plasma Physics and Solid State Physics. - Bratislava : Knižničné a edičné centrum FMFI UK, 2007. - S. 110-111. - ISBN 978-80-89186-24-2  
[New Trends in Plasma Physics and Solid State Physics 2007 : Seminar. 3rd, Bratislava, 4.10.2007]

### **BFA Abstrakty odborných prác zo zahraničných podujatí (konferencie, ...)**

BFA01 Reháč, Matúš [UKOMFKEFd] (20%) - Neilinger, Pavol [UKOMFKEF] (20%) - Grajcar, Miroslav [UKOMFKEF] (20%) - Oelsner, Ggregor (10%) - Macha, P. (10%) - Ivanov, B. I. (10%) - Il'ichev, Evgeni (10%): Parametric amplification using nonlinearity of superconducting flux qubit  
Popis urobený 6.11.2013  
In: Eighth International Conference in School Format on Vortex Matter in Nanostructured Superconductors [elektronický zdroj]. - [Leuven] : [KU Leuven], 2013. - S. 168 [online]  
[VORTEX 2013 : Vortex Matter in Nanostructured Superconductors. 8th, Rhodes, 21.-26.9.2013]  
Registované v: URL zdrojového dokumentu

BFA02 Neilinger, Pavol [UKOMFKEF] (40%) - Reháč, Matúš [UKOMFKEFd] (20%) - Hübner, Uwe (10%) - Il'ichev, Evgeni (10%) - Grajcar, Miroslav [UKOMFKEF] (20%): Landau-Zener-Stückelberg interference in circuit QED  
Lit. 7 záz. n.  
In: Advanced Workshop on Landau-Zener Interferometry and Quantum Control in Condensed Matter. - Urla : Izmir Institute of Technology, 2014. - S. 42  
[Landau-Zener Interferometry and Quantum Control in Condensed Matter 2014 : Advanced Workshop. Izmir, 29.9.-3.10.2014]

BFA03 Reháč, Matúš [UKOMFKEFd] (20%) - de Motte, D. (20%) - Giri, G. (20%) - Grounds, A. (20%) - Neilinger, Pavol [UKOMFKEF] (4%) - Hübner, Uwe (4%) - Il'ichev, Evgeni (4%) - Grajcar, Miroslav [UKOMFKEF] (4%) - Hensinger, W. (4%): Experimental proposal for quantum hybrid system with trapped ions and superconducting qubits  
Popis urobený 26.2.2015  
In: Topical Research Meeting on Hybrid Quantum Systems [elektronický zdroj]. - Bristol : IOP, 2014. - S. 11-12 [online]  
[Hybrid Quantum Systems 2014 : Topical Research Meeting. Nottingham, 16.-18.12.2014]  
URL: [http://quantumsystems.iopconfs.org/IOP/media/uploaded/EVIOP/event\\_554/Topical%20Research](http://quantumsystems.iopconfs.org/IOP/media/uploaded/EVIOP/event_554/Topical%20Research)

%20Meeting%20on%20Hybrid%20Quantum%20Systems%20-%20Programme%20and%20Abstracts.pdf

BFA04 Samuely, P. (10%) - Szabo, P. (10%) - Kulkarni, P. (10%) - Samuely, T. (10%) - Kačmarčík, J. (10%) - Žemlička, Martin [UKOMFKEFd] (10%) - Neilinger, Pavol [UKOMFKEF] (10%) - Trgala, Marián [UKOMF000d] (10%) - Grajcar, Miroslav [UKOMFKEF] (10%) - Skvortsov, M. (10%): MoC ultrathin superconducting films on verge to the insulating state  
In: International Workshop SHYNED 2014. - Napoli : Universita di Napoli Federico II, 2014. - S. 56  
[SHYNED 2014 : Physics and application of superconducting hybrid nano-engineered devices : International Workshop. Santa Maria di Castellabate, 31.8.-4.9.2014]

BFA05 Žemlička, Martin [UKOMFKEFd] (10%) - Neilinger, Pavol [UKOMFKEF] (10%) - Trgala, Marián [UKOMF000d] (10%) - Grajcar, Miroslav [UKOMFKEF] (10%) - Szabo, P. (10%) - Samuely, P. (10%) - Gaži, Š. (10%) - Hübner, Uwe (10%) - Vinokur, V. M. (10%) - Il'ichev, Evgeni (10%): Finite quasiparticle lifetime in the surface layer of disordered superconductors  
Lit. 2 záz. n.  
In: International Workshop SHYNED 2014. - Napoli : Universita di Napoli Federico II, 2014. - S. 90  
[SHYNED 2014 : Physics and application of superconducting hybrid nano-engineered devices : International Workshop. Santa Maria di Castellabate, 31.8.-4.9.2014]

### **DAI Dizertačné a habilitačné práce**

DAI01 Grajcar, Miroslav [UKOMFKEF]: Vlastnosti povrchovej vrstvy vysokoteplotných supravodičov. - Bratislava : [s.n.], 1993. - 78 s.  
Kandidátska dizertačná práca (Kandidát vied; CSc.) - Univerzita Komenského, Bratislava, 1993

DAI02 Grajcar, Miroslav [UKOMFKEF] (100%) : Anomálne vlastnosti vysokoteplotných supravodičov merané metódou tunelovej spektroskopie. - Bratislava : [s.n.], 1999. - 77 s.  
Habilitationá práca (Docent; Doc.) - Univerzita Komenského, Bratislava, 1999

DAI03 Grajcar, Miroslav [UKOMFKEF] (100%) : Vlastnosti slaboviazaných supravodivých štruktúr a ich použitie pri realizácii supravodivého qubitu. - Bratislava : [s.n.], 2006. - 130 s.  
Doktorská dizertačná práca (Doktor vied; DrSc.) - Univerzita Komenského, Bratislava, 2006

### **EDJ Prehľadové práce, odborné práce, preklady noriem; odborné preklady v časopisoch, zborníkoch**

EDJ01 Grajcar, Miroslav [UKOMFKEF]: Mikroskopické kvantové javy v supravodivých qubitoch  
Lit. 4 záz. n., 1 obr.  
In: Československý časopis pro fyziku. - Sv. 55, č. 6 (2005), s. 506-507

EDJ02 Plecenik, Andrej [UKOMFKEF] - Bezák, Viktor [UKOMFKEFs] - Gašparík, Vladimír [UKOMF000] - Grajcar, Miroslav [UKOMFKEF] - Grančič, Branislav [UKOMFKEF] - Greguš, Ján [UKOMFKEF] - Hlubina, Richard [UKOMFKEF] - Maheľ, Michal [UKOMFKEF] - Mičunek, Radovan - Kúš, Peter [UKOMFKEF] - Plecenik, Tomáš [UKOMFKEF] - Schlosser, Peter [UKOEXFM] - Tomášek, Milan - Zahoran, Miroslav [UKOMFKEF]: Hlavné vedecké aktivity na oddelení Fyziky tuhých látok, Katedra experimentálnej fyziky FMFI UK v Bratislave  
In: Moderné trendy vo fyzike plazmy a tuhých látok [elektronický zdroj]. - Bratislava : [FMFI UK], 2006. - S. 43-81 [CD-ROM]. - ISBN 80-89186-09-2  
[Moderné trendy vo fyzike plazmy a tuhých látok. Bratislava, 27.10.2005]

### **Štatistika kategórií (Záznamov spolu: 123):**

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách (2)  
ACC Kapitoly vo vysokoškolských učebniciach vydané v zahraničných vydavateľstvách (1)  
ADC Vedecké práce v zahraničných karentovaných časopisoch (80)  
ADD Vedecké práce v domácich karentovaných časopisoch (1)  
ADE Vedecké práce v ostatných zahraničných časopisoch (2)  
AFC Publikované príspevky na zahraničných vedeckých konferenciách (7)

AFD Publikované príspevky na domácich vedeckých konferenciách (22)  
AFI Preprinty vedeckých prác vydané v zahraničných vydavateľstvách (1)  
BBB Kapitoly v odborných knižných publikáciách vydané v domácich vydavateľstvách (1)  
BCI Skriptá a učebné texty (1)  
BEF Odborné práce v domácich zborníkoch (konferenčných aj nekonferenčných) (1)  
BFA Abstrakty odborných prác zo zahraničných podujatí (konferencie, ...) (5)  
DAI Dizertačné a habilitačné práce (3)  
EDJ Prehľadové práce, odborné práce, preklady noriem; odborné preklady v časopisoch, zborníkoch (2)

**Štatistika ohlasov (1182):**

[o1] Citácie v zahraničných publikáciách registrované v citačných indexoch (1179)  
[o3] Citácie v zahraničných publikáciách neregistrované v citačných indexoch (2)  
[o4] Citácie v domácich publikáciách neregistrované v citačných indexoch (1)

**9.7.2015**