

Menný zoznam publikácií:

V2 Vedecký výstup publikačnej činnosti ako časť editovanej knihy alebo zborníka

Počet výstupov: 4

V2_001 / Hruška, Martin (Autor) [UMBFP06] (50%) - Plesch, Martin (Autor) [UMBFP06] (50%): **The use of a simple digital weather station (not only) in teaching physics.** – text. – [recenzované]. – DOI 10.1088/1742-6596/3155/1/012015. – SCO.

In: *DIDFYZ 2025 - Education reform and its reflection in physics education* [textový dokument (print)] [elektronický dokument] / Zelenický, Ľubomír [Zostavovateľ, editor] ; Valovičová, Ľubomíra [Zostavovateľ, editor] ; Trník, Anton [Zostavovateľ, editor]. – 1. vyd. – Bristol (Veľká Británia) : Institute of Physics. IOP Publishing, 2025. – Journal of Physics : Conference Series = JPCS = J. Phys. Conf. Ser. = Journal of Physics: Conference Series, ISSN 1742-6588, ISSN 1742-6596 ; Volume 3155, Nordic List: 1 - 2025

SNIP: 0,31 - 2024

SJR: 0,187 - 2024

CiteScore: 1,3 - 2024, s. 1-8 [tlačená forma] [online]

Meeting of DIDFYZ 2025, 24 [Terchová, Slovensko, 17.09.2025-20.09.2025]

Počet všetkých autorov: 2

[príspevok z podujatia]

[OV 091 Fyzika - OV 010 Pedagogické vedy]

[ŠO 1160 fyzika - ŠO 7605 učiteľstvo a pedagogické vedy]

Indikátor:

Nordic List: 1 - 2025

SNIP: 0,31 - 2024

SJR: 0,187 - 2024

CiteScore: 1,3 - 2024

V2_002 / Spodniaková Pfefferová, Miriam (Autor) [UMBFP06] (50%) - Plesch, Martin (Autor) [UMBFP06] (50%): **Optics experiments as a tool for developing critical thinking in physics education.** – [recenzované]. – DOI 10.1088/1742-6596/3155/1/012017. – SCO.

In: *DIDFYZ 2025 - Education reform and its reflection in physics education* [textový dokument (print)] [elektronický dokument] / Zelenický, Ľubomír [Zostavovateľ, editor] ; Valovičová, Ľubomíra [Zostavovateľ, editor] ; Trník, Anton [Zostavovateľ, editor]. – 1. vyd. – Bristol (Veľká Británia) : Institute of Physics. IOP Publishing, 2025. – Journal of Physics : Conference Series = JPCS = J. Phys. Conf. Ser. = Journal of Physics: Conference Series, ISSN 1742-6588, ISSN 1742-6596 ; Volume 3155, Nordic List: 1 - 2025

SNIP: 0,31 - 2024

SJR: 0,187 - 2024

CiteScore: 1,3 - 2024, s. 1-9 [tlačená forma] [online]

Meeting of DIDFYZ 2025, 24 [Terchová, Slovensko, 17.09.2025-20.09.2025]

Počet všetkých autorov: 2

[príspevok z podujatia]

[OV 091 Fyzika - OV 010 Pedagogické vedy]

[ŠO 1160 fyzika - ŠO 7605 učiteľstvo a pedagogické vedy]

Indikátor:

Nordic List: 1 - 2025

SNIP: 0,31 - 2024

SJR: 0,187 - 2024

CiteScore: 1,3 - 2024

V2_003 / Bouda, Jan (Autor) (25%) - Pawlowski, Marcin (Autor) (25%) - Pivoluska, Matej (Autor) (25%) - Plesch, Martin (Autor) (25%): **Device-independent randomness extraction for arbitrarily weak min-entropy source**. – text, graf. – [recenzované]. – DOI 10.4230/LIPIcs.TQC.2014.205. – SCO.
In: *9th Conference on the Theory of Quantum Computation, Communication and Cryptography* [elektronický dokument] : TQC 2014 / Flammia, Steven T. [Zostavovateľ, editor] ; Harrow, Aram W. [Zostavovateľ, editor]. – 1. vyd. – Wadern (Nemecko) : Leibniz-Zentrum für Informatik - Dagstuhl Publishing, 2014. – Leibniz International Proceedings in Informatics = LIPIcs, ISSN 1868-8969 ; 27. – ISBN (online) 978-3-939897-73-6, s. 205-211 [online]
 Conference on the Theory of Quantum Computation, Communication and Cryptography, 9 [Singapur, Singapur, 21.05.2014-23.05.2014]
 Počet všetkých autorov: 4
 [príspevok z podujatia]
 Lit.: 14
 [OV 091 Fyzika]
 [ŠO 1160 fyzika]

V2_004 / Bužek, Vladimír (Autor) (33.334%) - Ziman, Mário (Autor) (33.333%) - Plesch, Martin (Autor) (33.333%): **Optimal approximation of nonphysical maps via maximum likelihood estimation** (25. Chapter). – text, graf., tab. – [recenzované]. – DOI 10.1117/3.793309.ch25. – SCO.
In: *Advances in Information Optics and Photonics* [textový dokument (print)] [elektronický dokument] / Friberg, Ari T. [Zostavovateľ, editor] ; Dändliker, René [Zostavovateľ, editor]. – 1. vyd. – Bellingham (USA) : The International Society for Optics and Photonics, 2008. – International Commission for Optics = Commission Internationale d'Optique ; 6. – ISBN 9780819472342. – ISBN (online) 9780819481047, s. 513-532 [tlačená forma] [online]
 Počet všetkých autorov: 3
 [kapitola]
 Lit.: 28
 [OV 091 Fyzika]
 [ŠO 1160 fyzika]

V3 Vedecký výstup publikačnej činnosti z časopisu

Počet výstupov: 40

V3_001 / Plesch, Martin (Autor) [UMBFP06] (33.334%) - Friák, Martin (Autor) (33.333%) - Mohammad, Ijaz Ahamed (Korešpondenčný autor) (33.333%): **Efficient implementation of single particle Hamiltonians in exponentially reduced qubit space**. – text, tab. – DOI 10.22331/q-2026-05-08-2099. – CCC ; WOS CC ; SCO ; SCIE ; OA.
In: *Quantum* [elektronický dokument] : the open journal for quantum science. – Viedeň (Rakúsko) : Verein zur Förderung des Open Access Publizierens in den Quantenwissenschaften. – ISSN (online) 2521-327X. – Roč. 10, č. 8. máj (2026), art. no. 2099, s. 1-21 [online]
 Počet všetkých autorov: 3
 [článok]
 Lit.: 36
 [OV 091 Fyzika]
 [ŠO 1160 fyzika]
Indikátor časopisu:
 IF: 5.4 - 2024
 SNIP: 1,662 - 2024
 SJR: 2,526 - 2024
 CiteScore: 9,3 - 2024
 AIS: 2.418 - 2024
Kvartil Q:
2024, AIS - Physics, multidisciplinary - Q1; **2024, AIS** - Quantum science & technology - Q1; **2024, JCI** - Physics, multidisciplinary - Q1; **2024, JCI** - Quantum science & technology - Q1; **2024, JIF** - Physics, multidisciplinary - Q1; **2024, JIF** - Quantum science & technology - Q1; **2024, Scimago** - Atomic and molecular physics, and optics - Q1; **2024, Scimago** - Physics and astronomy (miscellaneous) - Q1

V3_002 / Faletič, Sergej (Autor) (25%) - Kyuldjiev, Assen (Autor) (5%) - Lindner, Thomas (Autor) (5%) - Schnider, Dorottya (Autor) (5%) - Izsa, Éva (Autor) (5%) - Hömöstre, Mihály (Autor) (5%) - Jenei, Peter (Autor) (5%) - Aneva, Boyka (Autor) (5%) - Ivanova, Daniela D. (Autor) (5%) - Němec, Hynek (Autor) (5%) - Kundracik, František (Autor) [UKOMFKEF] (5%) -

Plesch, Martin (Autor) [UMBFP06] (25%): **Development of soft and hard skills of high-school students via young physicists' tournament.** – text, graf., tab. – DOI 10.1088/1361-6404/adedd6. – SCO ; CCC ; WOS CC ; SCIE ; OA.
In: *European Journal of Physics* [textový dokument (print)] [elektronický dokument] . – Bristol (Veľká Británia) : Institute of Physics. IOP Publishing. – ISSN 0143-0807. – ISSN (online) 1361-6404. – Roč. 46, č. 5 (2025), art. no. 055804, s. [1-14]
[tlačená forma] [online]

Počet všetkých autorov: 12

[článok]

Lit.: 23

[OV 010 Pedagogické vedy - OV 091 Fyzika]

[ŠO 7605 učiteľstvo a pedagogické vedy - ŠO 1160 fyzika]

Indikátor časopisu:

IF: 0.8 - 2024

SNIP: 0,798 - 2024

SJR: 0,339 - 2024

CiteScore: 1,7 - 2024

AIS: 0.204 - 2024

Kvartil Q:

2024, AIS - Education, scientific disciplines - Q3; **2024, AIS** - Physics, multidisciplinary - Q3; **2024, JCI** - Education, scientific disciplines - Q4; **2024, JCI** - Physics, multidisciplinary - Q3; **2024, JIF** - Education, scientific disciplines - Q3; **2024, JIF** - Physics, multidisciplinary - Q3; **2024, Scimago** - Education - Q3; **2024, Scimago** - Physics and astronomy (miscellaneous) - Q2

V3_003 / Chernyak, Yury (Autor) (20%) - Mohammad, Ijaz Ahamed (Autor) (35%) - Masnicak, Nikolas (Autor) (5%) - Pivoluska, Matej (Autor) (5%) - Plesch, Martin (Autor) [UMBFP06] (35%): **Harmonic oscillator based particle swarm optimization.** – text, graf., tab. – DOI 10.1371/journal.pone.0326173. – MEDLINE® ; SCO ; WOS CC ; BIOSIS Citation Index ; PubMed ; SCIE ; OA.

In: *PLoS One* [elektronický dokument] . – San Francisco (USA) : Public Library of Science. – ISSN (online) 1932-6203. – Roč. 20, č. 6 (2025), art. no. e0326173, s. [1-26] [online]

Počet všetkých autorov: 5

[článok]

Lit.: 64

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

Nordic List: 1 - 2025

IF: 2.6 - 2024

SNIP: 1,065 - 2024

SJR: 0,803 - 2024

CiteScore: 5,4 - 2024

AIS: 0.831 - 2024

Kvartil Q:

2024, AIS - Multidisciplinary sciences - Q2; **2024, JCI** - Multidisciplinary sciences - Q2; **2024, JIF** - Multidisciplinary sciences - Q2; **2024, Scimago** - Multidisciplinary - Q1

Ohlasy (2):

2026 [01/20] / CHE - Wang, Yaopei - Wang, Yufeng - Wang, Haoxing - Du, Yanan - Shan, Pingping. **Dual-Population Hybrid Particle Swarm Optimization Algorithm Based on Hooke's Law Competition Mechanism** [elektronický dokument]. DOI 10.3390/a19030207 In: **Algorithms**. Basel: Multidisciplinary Digital Publishing Institute, 2026, Roč. 19, č. 3, art. no. 207 [online]. ISSN (online) 1999-4893. - SCO ; ESCI ; WOS CC, s. art. no. 207

2025 [01/20] / CHE - Wang, Antao - Sun, Linan - Jia, Huicong. **Harnessing TabTransformer Model and Particle Swarm Optimization Algorithm for Remote Sensing-Based Heatwave Susceptibility Mapping in Central Asia** [elektronický dokument]. DOI 10.3390/atmos16101166 In: **Atmosphere**. Bazilej: Multidisciplinary Digital Publishing Institute, 2025, Roč. 16, č. 10, art. no. 1166 [online]. ISSN (online) 2073-4433. - SCO ; SCIE ; CCC ; WOS CC, s. art. no. 1166

V3_004 / Šindler, Martin (Autor) (20%) - Buřič, Miloš (Autor) (20%) - Plesch, Martin (Autor) [UMBFP06] (20%) - Franta, Pavel (Autor) (20%) - Drozd, Bořek (Autor) (20%): **Effectiveness of mass marking of juvenile sterlet (*Acipenser ruthenus*) with alizarin red S stain on field detection.** – text, graf., tab. – DOI 10.1111/fme.12737. – SCO ; WOS CC ; SCIE ; OA ;

CCC.

In: *Fisheries Management and Ecology* [textový dokument (print)] [elektronický dokument] . – Hoboken (USA) : John Wiley & Sons. – ISSN 0969-997X. – ISSN (online) 1365-2400. – Roč. 32, č. 1 (2025), art. no. e12737, s. 1-11 [tlačená forma] [online]

Počet všetkých autorov: 5

[článok]

[OV 100 Environmentalistika a ekológia - OV 091 Fyzika]

[ŠO 1610 ekologické a environmentálne vedy - ŠO 1160 fyzika]

Indikátor časopisu:

IF: 2.0 - 2024

SNIP: 0,899 - 2024

SJR: 0,643 - 2024

CiteScore: 3,9 - 2024

AIS: 0.532 - 2024

Kvartil Q:

2024, AIS - Fisheries - Q2; **2024, JCI** - Fisheries - Q2; **2024, JIF** - Fisheries - Q2; **2024, Scimago** - Aquatic science - Q2; **2024, Scimago** - Ecology - Q2

Ohlasy (2):

2026 [01/20] / NLD - Hubálek, Martin - Flajšhans, Martin - Tichopád, Tomáš - Prášková, Eva - Michalcová, Karolína - Kašpar, Vojtěch. **In vitro egg-ageing and sperm quantity in the artificial reproduction of sterlet (*Acipenser ruthenus*): is 'the less, the better' a good rule for avoiding ploidy abnormalities in small sturgeon species?** [elektronický dokument]. DOI 10.1016/j.aquaculture.2026.743881 In: **Aquaculture**. Amsterdam: Elsevier, 2026, č. 619, art. no. 743881 [tlačená forma] [online]. ISSN 0044-8486. ISSN (online) 1873-5622. - SCO ; SCIE ; WOS CC ; CCC, s. art. no. 743881

2025 [01/20] / DEU - Aydın, İlhan - Dürrani, Ömerhan - Küçük, Ercan - Polat, Hamza. **Otolith Marking of Juvenile Turbot (*Scophthalmus maximus*) with Alizarin Complexone and Oxytetracycline for Stock-Enhancement Monitoring** [elektronický dokument]. DOI 10.1007/s41208-025-00953-w In: **Thalassas: An International Journal of Marine Sciences**. Berlín: Springer Nature, 2025, Roč. 41, č. 4, art. no. 205 [tlačená forma] [online]. ISSN 0212-5919. ISSN (online) 2366-1674. - SCO ; SCIE ; WOS CC, s. art. no. 205

V3_005 / Mohammad, Ijaz Ahamed (Autor) (40%) - Pivoluska, Matej (Autor) (20%) - Plesch, Martin (Korešpondenčný autor) [UMBFP06] (40%): **Meta-optimization of resources on quantum computers**. – text, graf., obr. – DOI 10.1038/s41598-024-59618-y. – CCC ; WOS CC ; SCIE ; SCO ; OA.

In: *Scientific reports* [elektronický dokument] . – Londýn (Veľká Británia) : Springer Nature. Nature Publishing Group. – ISSN (online) 2045-2322. – Roč. 14, č. 1 (2024), art. no. 10312, s. 1-10 [online]

Počet všetkých autorov: 3

[článok]

Lit.: 26

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 3.9 - 2024

SNIP: 1,213 - 2024

SJR: 0,874 - 2024

CiteScore: 6,7 - 2024

Nordic List: 1 - 2024

AIS: 1.031 - 2024

Kvartil Q:

2024, AIS - Multidisciplinary sciences - Q1; **2024, JCI** - Multidisciplinary sciences - Q1; **2024, JIF** - Multidisciplinary sciences - Q1; **2024, Scimago** - Multidisciplinary - Q1

Ohlasy (4):

2026 [01/20] / USA - Arumugam, Nagamani Prabu - Karthikeyan, M. M. - Krishnamoorthy, Keerthivasan. **Quantum Computing and Instrumentation for Smart Sustainable Agriculture** [elektronický dokument]. DOI 10.1201/9781003675426-2 In: **Internet of things and green technologies for smart environment**. Boca Raton: Taylor & Francis Group. CRC Press, 2026, s. 17-33 [online] [tlačená forma]. ISBN 978-1-041-14640-7. ISBN 978-1-041-14641-4. ISBN (online) 978-1-003-67542-6. - SCO, s. 17 - 33

2026 [01/20] / CHE - Quiroz-Martinez, Miguel Angel - Macias-Chiquito, Jorge Leonardo - Choez-Cordero, Ricardo David - Gomez-Rios, Monica Daniela. **The Role of Quantum Computing and Learning Automatic in the Advancement of Medical Prediction Systems** [elektronický dokument]. DOI 10.1007/978-3-031-98768-7_23 In: **Proceedings of the International Conference on Computer Science, Electronics and Industrial Engineering**. Cham: Springer Nature. Springer, 2026, s. 393-405 [tlačená forma] [online]. ISBN 978-3-031-98767-0. ISBN (online) 978-3-031-98768-7. - SCO ; WOS CC ; CPCI-S, s. 393 - 405

2026 [01/20] / USA - Chatterjee, Turbasu - Mohtashim, Shah Ishmam - Kundu, Akash. **Energy landscape structure of small graph isomorphism under variational optimization** [elektronický dokument]. DOI 10.1063/5.0305337 In: **AIP Advances**. Melville: American Institute of Physics, 2026, Roč. 16, č. 1, art. no. 015322 [online]. ISSN (online) 2158-3226. - SCO ; SCIE ; CCC ; WOS CC, s. art. no. 015322

2025 [01/20] / USA - Palii, Yu - Belyakov, D. V. - Bogolubskaya, A. A. - Zuev, M. I. - Yanovich, D. A. **Simulation of the QAOA Algorithm at the JINR Quantum Testbed** [elektronický dokument]. DOI 10.1134/S1063779625700066 In: **Physics of Particles and Nuclei**. New York: Nauka Publishers. MAIK Nauka/Interperiodica. Pleiades Publishing, 2025, Roč. 56, č. 4, s. 989-993 [tlačená forma] [online]. ISSN 1063-7796. ISSN (online) 1531-8559. - SCO ; SCIE ; CCC ; WOS CC, s. 989 - 993

V3_006 / Miháliková, Ivana (Autor) (16.67%) - Pivoluska, Matej (Autor) (16.666%) - Plesch, Martin (Autor) (16.666%) - Friák, Martin (Autor) (16.666%) - Nagaj, Daniel (Autor) (16.666%) - Šob, Mojmír (Autor) (16.666%): The Cost of Improving the Precision of the Variational Quantum Eigensolver for Quantum Chemistry. – text, graf., tab. – DOI 10.3390/nano12020243. – SCO ; SCIE ; CCC ; WOS CC.

In: Nanomaterials [elektronický dokument] . – Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute. – ISSN (online) 2079-4991. – Roč. 12, č. 2 (2022), art. no. 243, s. [1-22] [online]

Počet všetkých autorov: 6

[článok]

Lit.: 63

[OV 091 Fyzika]

[ŠO 1160 fyzika - ŠO 1420 chémia]

Indikátor časopisu:

IF: 5.3 - 2022

SNIP: 1,065 - 2022

SJR: 0,811 - 2022

CiteScore: 7,4 - 2022

AIS: 0.712 - 2022

Kvartil Q:

2022, AIS - Chemistry, multidisciplinary - Q2; **2022, AIS** - Materials science, multidisciplinary - Q2; **2022, AIS** - Nanoscience & nanotechnology - Q3; **2022, AIS** - Physics, applied - Q2; **2022, JCI** - Chemistry, multidisciplinary - Q2; **2022, JCI** - Materials science, multidisciplinary - Q2; **2022, JCI** - Nanoscience & nanotechnology - Q2; **2022, JCI** - Physics, applied - Q2; **2022, JIF** - Chemistry, multidisciplinary - Q2; **2022, JIF** - Materials science, multidisciplinary - Q2; **2022, JIF** - Nanoscience & nanotechnology - Q2; **2022, JIF** - Physics, applied - Q1; **2022, Scimago** - Chemical engineering (miscellaneous) - Q1; **2022, Scimago** - Materials science (miscellaneous) - Q2

Ohlasy (15):

2026 [01/20] / USA - Kim, Sieun - Joe, Inwhhee. **Image Classification and Explainability Analysis Using GPU-Based CUDA-Q Hybrid Quantum Neural Networks** [elektronický dokument]. DOI 10.1109/ACCESS.2026.3679785 In: **IEEE Access: practical innovations, open solutions**. Piscataway : Institute of Electrical and Electronics Engineers, 2026, Roč. 14, č. 1 April, s. 52080-52088 [online]. ISSN (online) 2169-3536. - SCO ; WOS CC ; SCIE ; CCC, s. 52080 - 52088

2025 [01/20] / USA - Gao, Haixiang - Murray, Jane S. - Shreeve, Jean'ne M. **A Computational Renaissance in High-Energy Density Materials (HEDMs) Research** [elektronický dokument]. DOI 10.1021/acs.chemrev.5c00232 In: **Chemical Reviews**. Washington: American Chemical Society, 2025, Roč. 125, č. 21, s. 10342-10456 [tlačená forma] [online]. ISSN 0009-2665. ISSN (online) 1520-6890. - SCO ; WOS CC ; SCIE ; CCC, s. 10342 - 10456

2025 [01/20] / CHE - Khalid, Uman - Paracha, Usama Inam - Rizvi, Syed Muhammad Abuzar - Shin, Hyundong. **Quantum Computing for Intelligent Transportation Systems: VQE-Based Traffic Routing and EV Charging Scheduling** [elektronický dokument]. DOI 10.3390/math13172761 In: **Mathematics**. Bazilej: Multidisciplinary Digital Publishing Institute, 2025, Roč. 13, č. 17, art. no. 2761 [online]. ISSN (online) 2227-7390. - SCO ; WOS CC ; SCIE ; CCC, s. art. no.

2025 [01/20] / NLD - Sood, Sandeep Kumar - Singh, Manmohan - Bhatia, Munish. **Industrial progress with quantum algorithms: an in-depth review** [elektronický dokument]. DOI 10.1007/s11227-025-07555-6 In: **Journal of Supercomputing**. Dordrecht: Springer Nature. Springer, 2025, Roč. 81, č. 9, art. no. 1064 [tlačená forma] [online]. ISSN 0920-8542. ISSN (online) 1573-0484. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 1064

2025 [01/20] / USA - Kundu, Shruti - Gupta, Twinkle - Sardar, Akash - Bandyopadhyay, Anjan - Swain, Sujata - Mallik, Saurav. **A survey on quantum computing** [elektronický dokument]: Transforming cryptography, AI/ML, blockchain, and network communication. DOI 10.1016/j.fraope.2025.100371 In: **Franklin Open**. New York: Elsevier, 2025, č. 12, art. no. 100371 [tlačená forma] [online]. ISSN 2773-1871. ISSN (online) 2773-1863. - SCO, s. art. no. 100371

2025 [01/20] / CHN - Sheng, Zirui - Li, Weitang - Shuai, Zhigang. **Quantum-computational chemistry in noisy intermediate-scale quantum era: TenCirChem and its application** [elektronický dokument]. DOI 10.1360/TB-2024-1150 In: **Kexue Tongbao**. Peking: Chung-Kuo Hsueh Ysan, 2025, Roč. 70, č. 34, s. 5792-5809 [tlačená forma] [online]. ISSN 0023-074X. ISSN (online) 2095-9419. - SCO ; WOS CC ; ESCI, s. 5792 - 5809

2024 [01/20] / USA - Sihare, Shyam R. **Multi-Party Quantum Key Distribution Using Variational Quantum Eigensolvers** [elektronický dokument]. DOI 10.1002/qute.202300270 In: **Advanced Quantum Technologies**. Hoboken: John Wiley & Sons, 2024, Roč. 7, č. 1, art. no. 2300270 [online]. ISSN (online) 2511-9044. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 2300270

2024 [01/20] / USA - Pei, Zongrui - Gong, Yilun - Liu, Xianglin - Yin, Junqi. **Designing complex concentrated alloys with quantum machine learning and language modeling** [elektronický dokument]. DOI 10.1016/j.matt.2024.05.035 In: **Matter**. Cambridge: Elsevier. Cell Press, 2024, Roč. 7, č. 10, s. 3433-3446 [tlačená forma] [online]. ISSN 2590-2393. ISSN (online) 2590-2385. - SCO ; WOS CC ; SCIE ; CCC, s. 3433 - 3446

2024 [01/20] / GBR - Li, Weitang - Yin, Zhi - Li, Xiaoran - Ma, Dongqiang - Yi, Shuang - Zhang, Zhenxing - Zou, Chenji - Bu, Kunliang - Dai, Maochun - Yue, Jie - Chen, Yuzong - Zhang, Xiaojin - Zhang, Shengyu. **A hybrid quantum computing pipeline for real world drug discovery** [elektronický dokument]. DOI 10.1038/s41598-024-67897-8 In: **Scientific reports**. Londýn: Springer Nature. Nature Publishing Group, 2024, Roč. 14, č. 1, art. no. 16942 [online]. ISSN (online) 2045-2322. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 16942

2024 [01/20] / USA - Sun, Jiace - Cheng, Lixue - Li, Weitang. **Toward Chemical Accuracy with Shallow Quantum Circuits** [elektronický dokument]: A Clifford-Based Hamiltonian Engineering Approach. DOI 10.1021/acs.jctc.3c00886 In: **Journal of Chemical Theory and Computation**. Washington: American Chemical Society, 2024, Roč. 20, č. 2, s. 695-707 [tlačená forma] [online]. ISSN 1549-9618. ISSN (online) 1549-9626. - SCO ; WOS CC ; SCIE ; CCC, s. 695 - 707

2024 [01/20] / USA - Jiang, Weiwen - Lin, Youzuo. **QuGeo: An End-to-end Quantum Learning Framework for Geoscience: A Case Study on Full-Waveform Inversion**. DOI 10.1145/3649329.3657363 In: **61st ACM/IEEE Design Automation Conference**. New York: ACM Digital Library, 2024, art. no. 100, s. 1-6 [online]. ISBN 9798400706011. ISSN 0738100X. - SCO ; WOS CC ; CPCI-S, s. art. no. 100

2023 [01/20] / NLD - Singh, Jaiteg - Bhangu, Kamalpreet Singh. **Contemporary Quantum Computing Use Cases** [elektronický dokument]: Taxonomy, Review and Challenges. DOI 10.1007/s11831-022-09809-5 In: **Archives of Computational Methods in Engineering**. Amsterdam: Springer Nature, 2023, Roč. 30, č. 1, s. 615-638 [tlačená forma] [online]. ISSN 1134-3060. ISSN (online) 1886-1784. - SCO ; WOS CC ; SCIE ; CCC, s. 615 - 638

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V3_007 / Miháliková, Ivana (Autor) (16.67%) - Friák, Martin (Autor) (16.666%) - Pivoluska, Matej (Autor) (16.666%) - Plesch, Martin (Autor) (16.666%) - Saip, Martin (Autor) (16.666%) - Šob, Mojmír (Autor) (16.666%): Best-Practice Aspects of Quantum-Computer Calculations : A Case Study of the Hydrogen Molecule. – text, graf. – DOI 10.3390/molecules27030597. – SCO ; SCIE ; CCC ; WOS CC.

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Počet všetkých autorov: 6

[článok]

Lit.: 54

[OV 091 Fyzika]

[ŠO 1160 fyzika - ŠO 1420 chémia]

Indikátor časopisu:

IF: 4,6 - 2022

SNIP: 1,167 - 2022

SJR: 0,704 - 2022

CiteScore: 6,7 - 2022

Nordic List: 1 - 2022

AIS: 0.660 - 2022

Kvartil Q:

2022, AIS - Biochemistry & molecular biology - Q3; **2022, AIS** - Chemistry, multidisciplinary - Q2; **2022, JCI** - Biochemistry & molecular biology - Q3; **2022, JCI** - Chemistry, multidisciplinary - Q2; **2022, JIF** - Biochemistry & molecular biology - Q2; **2022, JIF** - Chemistry, multidisciplinary - Q2; **2022, Scimago** - Analytical chemistry - Q2; **2022, Scimago** - Chemistry (miscellaneous) - Q2; **2022, Scimago** - Drug discovery - Q2; **2022, Scimago** - Medicine (miscellaneous) - Q2; **2022, Scimago** - Molecular medicine - Q3; **2022, Scimago** - Organic chemistry - Q2; **2022, Scimago** - Pharmaceutical science - Q1; **2022, Scimago** - Physical and theoretical chemistry - Q2

Ohlasy (10):

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2023 [01/20] / USA - Chuprakov, D. A. - Pozhar, K. V. **Analysis of Methods for Calculating Optimal Parameters for Insulin Boluses in Automated Insulin Therapy Systems with Control Based on Predictive Models** [elektronický dokument]. DOI 10.1007/s10527-023-10278-8 In: **Biomedical Engineering**. New York: Springer Nature, 2023, Roč. 57, č. 2, s. 102-106 [tlačená forma] [online]. ISSN 0006-3398. ISSN (online) 1573-8256. - SCO ; ESCI ; WOS CC, s. 102 - 106

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V3_008 / Pivoluska, Matej (Autor) (50%) - Plesch, Martin (Autor) (50%): Implementation of quantum compression on IBM quantum computers. – text, graf. – DOI 10.1038/s41598-022-09881-8. – SCO ; SCIE ; CCC ; WOS CC.

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Počet všetkých autorov: 2

[článok]

Lit.: 56

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 4,6 - 2022

SNIP: 1,312 - 2022

SJR: 0,973 - 2022

CiteScore: 7,5 - 2022

Nordic List: 1 - 2022

AIS: 1.132 - 2022

Kvartil Q:

2022, AIS - Multidisciplinary sciences - Q2; **2022, JCI** - Multidisciplinary sciences - Q1; **2022, JIF** - Multidisciplinary sciences - Q2; **2022, Scimago** - Multidisciplinary - Q1

Ohlasy (14):

2026 [01/20] / CHE - Rubio, Yoshio - Olvera, Cynthia - Montiel, Oscar. **Towards a Fully Quantum Learning System** [elektronický dokument]: Quantum Architecture Search with Quantum Evolutionary Algorithms. DOI 10.1007/978-3-031-85614-3_20 In: **Artificial Intelligence and Quantum Computing: Early Innovations**. Cham: Springer Nature. Springer, 2026, s. 397-412 [tlačená forma] [online]. ISBN 978-3-031-85613-6. ISBN 978-3-031-85616-7. ISBN (online) 978-3-031-85614-3. - SCO, s. 397 - 412

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2023 [01/20] / USA - Golchha, Roopa - Verma, Gyanendra K. **Quantum-Enhanced Support Vector Classifier for Image Classification**. DOI 10.1109/I2CT57861.2023.10126421 In: **2023 IEEE 8th International Conference for Convergence in Technology**. Danvers: Institute of Electrical and Electronics Engineers, 2023, s. 1-6 [online] [tlačená forma]. ISBN 9798350334012. - SCO, s. 1 - 6

2023 [01/20] / USA - Mihov, Ivo S. - Vitanov, Nikolay V. **Pulse-shape effects in qubit dynamics demonstrated on an IBM quantum computer** [elektronický dokument]. DOI 10.1103/PhysRevA.108.042604 In: **Physical Review A**. Maryland: American Institute of Physics, 2023, Roč. 108, č. 4, art. no. 042604, s. [tlačená forma] [online]. ISSN 2469-9926. ISSN (online) 2469-9934. - WOS CC ; SCIE ; CCC ; SCO, s. art. no. 042604

V3_009 / Rai, Ashutosh (Autor) (16.67%) - Pivoluska, Matej (Autor) (16.666%) - Sasmal, Souradeep (Autor) (16.666%) - Banik, Manik (Autor) (16.666%) - Ghosh, Sibasish (Autor) (16.666%) - Plesch, Martin (Autor) [UKFFPVKCH] (16.666%): **Self-testing quantum states via nonmaximal violation in Hardy's test of nonlocality**. – text, graf., tab. – DOI 10.1103/PhysRevA.105.052227. – SCO ; SCIE ; CCC ; WOS CC.

In: Physical Review A [textový dokument (print)] [elektronický dokument] . – Maryland (USA) : American Institute of Physics. – ISSN 2469-9926. – ISSN (online) 2469-9934. – Roč. 105, č. 5 (2022), art. no. 052227, s. [1-8] [tlačená forma] [online]

Počet všetkých autorov: 6

[článok]

Lit.: 48

[OV 091 Fyzika - OV 120 Chémia, chemická technológia a biotechnológia]

[ŠO 1160 fyzika - ŠO 1420 chémia]

Indikátor časopisu:

IF: 2.9 - 2022

SNIP: 0,925 - 2022

SJR: 1,11 - 2022

CiteScore: 5,4 - 2022

AIS: 0.822 - 2022

Kvartil Q:

2022, AIS - Optics - Q2; **2022, AIS** - Physics, atomic, molecular & chemical - Q2; **2022, JCI** - Optics - Q2; **2022, JCI** - Physics, atomic, molecular & chemical - Q1; **2022, JIF** - Optics - Q2; **2022, JIF** - Physics, atomic, molecular & chemical - Q2; **2022, Scimago** - Atomic and molecular physics, and optics - Q1

Ohlasy (10):

2026 [01/20] / USA - Paul, Rajdeep - Munshi, Sneha - Pan, A. K. **Robust self-testing and certified randomness based on an arbitrary-input Bell inequality** [elektronický dokument]. DOI 10.1103/z4tp-mc5z In: **Physical Review A**. Maryland: American Institute of Physics, 2026, Roč. 113, č. 4, art. no. 042211, s. [tlačená forma] [online]. ISSN 2469-9926. ISSN (online) 2469-9934. - WOS CC ; SCIE ; CCC ; SCO, s. art. no. 042211

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2024 [01/20] / USA - Adhikary, Ranendu - Mishra, Abhishek - Rahaman, Ramij. **Self-testing of genuine multipartite entangled states without network assistance** [elektronický dokument]. DOI 10.1103/PhysRevA.110.L010401 In: **Physical Review A**. Maryland: American Institute of Physics, 2024, Roč. 110, č. 1, art. no. L010401 [tlačená forma] [online]. ISSN 2469-9926. ISSN (online) 2469-9934. - SCO ; WOS CC ; SCIE ; CCC

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2023 [01/20] / USA - Mikos-Nuszkiewicz, Antoni - Kaniewski, Jędrzej. **Extremal points of the quantum set in the Clauser-Horne-Shimony-Holt scenario** [elektronický dokument]: Conjectured analytical solution. DOI 10.1103/PhysRevA.108.012212 In: **Physical Review A**. Maryland: American Institute of Physics, 2023, Roč. 108, č. 1, art. no. 012212 [tlačená forma] [online]. ISSN 2469-9926. ISSN (online) 2469-9934. - SCO ; WOS CC ; SCIE ; CCC

V3_010 / Doda, Mirdit (Autor) (33.334%) - Pivoluska, Matej (Autor) (33.333%) - Plesch, Martin (Autor) (33.333%): Choice of mutually unbiased bases and outcome labeling affecting measurement outcome secrecy. – text, graf. – DOI 10.1103/PhysRevA.103.032206. – SCIE ; CCC ; WOS CC ; SCO.

In: *Physical Review A* [textový dokument (print)] [elektronický dokument] . – Maryland (USA) : American Institute of Physics. – ISSN 2469-9926. – ISSN (online) 2469-9934. – Roč. 103, č. 3 (2021), art. no. 032206, s. [1-8] [tlačená forma] [online]

Počet všetkých autorov: 3

[článok]

Lit.: 36

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 2.971 - 2021

SNIP: 0,928 - 2021

SJR: 1,183 - 2021

CiteScore: 5,7 - 2021

AIS: 0.805 - 2021

Kvartil Q:

2021, AIS - Optics - Q2; **2021, AIS** - Physics, atomic, molecular & chemical - Q2; **2021, JIF** - Optics - Q2; **2021, JIF** - Physics, atomic, molecular & chemical - Q2; **2021, Scimago** - Atomic and molecular physics, and optics - Q1

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V3_011 / Doda, Mirdit (Autor) (16.67%) - Huber, Marcus (Autor) (16.666%) - Murta, Glaucia (Autor) (16.666%) - Pivoluska, Matej (Autor) (16.666%) - Plesch, Martin (Autor) (16.666%) - Vlachou, Chrysoula (Autor) (16.666%): **Quantum Key Distribution Overcoming Extreme Noise: Simultaneous Subspace Coding Using High-Dimensional Entanglement**. – text, graf. – DOI 10.1103/PhysRevApplied.15.034003. – SCO ; SCIE ; CCC ; WOS CC.

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V3_012 / Pivoluska, Matej (Autor) (11.112%) - Plesch, Martin (Autor) (11.111%) - Farkas, Maté (Autor) (11.111%) - Ružičková, Natália (Autor) (11.111%) - Flegel, Clara (Autor) (11.111%) - Valencia, Natalia Herrera (Autor) (11.111%) - McCutcheon, Will (Autor) (11.111%) - Malik, Mehul (Autor) (11.111%) - Aguilar, Edgar A. (Autor) (11.111%); **Semi-device-independent random number generation with flexible assumptions**. – text, graf., tab., obr. – DOI 10.1038/s41534-021-00387-1. – SCO ; SCIE ; OA ; CCC ; WOS CC.

In: *NPJ quantum information* [elektronický dokument] . – Londýn (Veľká Británia) : Springer Nature. Springer. Nature Portfolio. – ISSN (online) 2056-6387. – Roč. 7, č. 1 (2021), art. no. 50, s. [1-12] [online]

Počet všetkých autorov: 9

[článok]

Lit.: 49

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Ohlasy (20):

2026 [01/20] / USA - Roch i Carceller, Carles - Lee, Hanwool - Bohr Brask, Jonatan - Flatt, Kieran - Bae, Joonwoo. **Sequential semi-device-independent quantum randomness certification**. DOI 10.1103/vb68-jlr3 In: **Physical Review Research**. New York: American Institute of Physics. American Physical Society, 2026, Roč. 8, č. 2, art. no. 023186 [online]. ISSN 2643-1564. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 023186

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2025 [01/20] / USA - Nai, Ayan Kumar - Kumar, Vimlesh - Ebrahim-Zadeh, M. - Samanta, G. K. **Device-independent, megabit-rate quantum random number generator with beam-splitter-free architecture and live Bell test certification** [elektronický dokument]. DOI 10.1364/OE.569257 In: **Optics Express**. Washington, D. C.: American Institute of Physics. The Optical Society, 2025, Roč. 33, č. 21, s. 44878-44889 [online]. ISSN (online) 1094-4087. - SCO ; WOS CC ; SCIE ; CCC, s. 44878 - 44889

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2023 [01/20] / USA - Mannalatha, Vaisakh - Mishra, Sandeep - Pathak, Anirban. **A comprehensive review of quantum random number generators: concepts, classification and the origin of randomness** [elektronický dokument]. DOI 10.1007/s11128-023-04175-y In: **Quantum Information Processing**. New York: Springer Nature, 2023, Roč. 22, č. 12, art.

no. 439 [tlačaná forma] [online]. ISSN 1570-0755. ISSN (online) 1573-1332. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 439

2023 [01/20] / CHE - Iavich, Maksim. **Post-quantum Scheme with the Novel Random Number Generator with the Corresponding Certification Method** [elektronický dokument]. DOI 10.1007/978-3-031-24475-9_7 In: **Advances in Intelligent Systems, Computer Science and Digital Economics 4**. Cham: Springer Nature. Springer, 2023, s. 76-88 [tlačaná forma] [online]. ISBN 978-3-031-24474-2. ISBN (online) 978-3-031-24475-9. - SCO, s. 76 - 88

2022 [01/20] / GBR - Salehi, Ramin - Razaghi, Mohammad - Fotouhi, Bashir. **Hybrid Hadamard and controlled-Hadamard based quantum random number generators in IBM QX** [elektronický dokument]. DOI 10.1088/1402-4896/ac698b In: **Physica Scripta**: an international journal for experimental and theoretical physics. Bristol: Institute of Physics. IOP Publishing, 2022, Roč. 97, č. 6, art. no. 065101 [tlačaná forma] [online]. ISSN 0031-8949. ISSN (online) 1402-4896. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 065101

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V3_013 / Rai, Ashutosh (Autor) (16.67%) - Pivoluska, Matej (Autor) (16.666%) - Plesch, Martin (Autor) (16.666%) - Sasmal, Souradeep (Autor) (16.666%) - Banik, Manik (Autor) (16.666%) - Ghosh, Sibasish (Autor) (16.666%): Device-independent bounds from Cabello's nonlocality argument. – text, graf. – DOI 10.1103/PhysRevA.103.062219. – SCO ; SCIE ; CCC ; WOS CC.

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Počet všetkých autorov: 6

[článok]

Lit.: 40

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 2.971 - 2021

SNIP: 0,928 - 2021

SJR: 1,183 - 2021

CiteScore: 5,7 - 2021

AIS: 0.805 - 2021

Kvartil Q:

2021, AIS - Optics - Q2; **2021, AIS** - Physics, atomic, molecular & chemical - Q2; **2021, JIF** - Optics - Q2; **2021, JIF** - Physics, atomic, molecular & chemical - Q2; **2021, Scimago** - Atomic and molecular physics, and optics - Q1

Ohlasy (8):

2026 [01/20] / USA - Paul, Rajdeep - Munshi, Sneha - Pan, A. K. **Robust self-testing and certified randomness based on an arbitrary-input Bell inequality** [elektronický dokument]. DOI 10.1103/z4tp-mc5z In: **Physical Review A**. Maryland: American Institute of Physics, 2026, Roč. 113, č. 4, art. no. 042211, s. [tlačaná forma] [online]. ISSN 2469-9926. ISSN (online) 2469-9934. - WOS CC ; SCIE ; CCC ; SCO, s. art. no. 042211

2025 [01/20] / CHE - Geng, Minming. **Advances of Quantum Key Distribution and Network Nonlocality** [elektronický dokument]. DOI 10.3390/e27090950 In: **Entropy**. Bazilej: Multidisciplinary Digital Publishing Institute, 2025, Roč. 27, č. 9, art. no. 950 [online]. ISSN (online) 1099-4300. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 950

2024 [01/20] / USA - Yang, Ming - Zhang, Dongkai - Chen, Lixiang. **Cabello's nonlocality argument for multisetting high-dimensional systems and its experimental test** [elektronický dokument]. DOI 10.1103/PhysRevA.110.012441 In: **Physical Review A**. Maryland: American Institute of Physics, 2024, Roč. 110, č. 1, art. no. 012441 [tlačaná forma] [online]. ISSN 2469-9926. ISSN (online) 2469-9934. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 012441

2024 [01/20] / USA - Adhikary, Ranendu - Mishra, Abhishek - Rahaman, Ramij. **Self-testing of genuine multipartite entangled states without network assistance** [elektronický dokument]. DOI 10.1103/PhysRevA.110.L010401 In: **Physical Review A**. Maryland: American Institute of Physics, 2024, Roč. 110, č. 1, art. no. L010401 [tlačaná forma] [online]. ISSN 2469-9926. ISSN (online) 2469-9934. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. L010401

2024 [01/20] / USA - Chen, Kai Siang - Mal, Shiladitya - Tabia, Gelo Noel M. - Liang, Yeong Cherng. **Hardy-type paradoxes for an arbitrary symmetric bipartite Bell scenario** [elektronický dokument]. DOI 10.1103/PhysRevA.109.042206 In: **Physical Review A**. Maryland: American Institute of Physics, 2024, Roč. 109, č. 4, art. no. 042206 [tlačená forma] [online]. ISSN 2469-9926. ISSN (online) 2469-9934. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 042206

2024 [01/20] / NLD - Adhikary, Ranendu. **Self-testing of genuine multipartite non-local and non-maximally entangled states** [elektronický dokument]. DOI 10.1016/j.physleta.2024.129731 In: **Physics Letters A: General Physics, Nonlinear Science, Statistical Physics, Atomic, Molecular and Cluster Physics, Plasma and Fluid Physics, Condensed Matter, Cross-disciplinary Physics, Biological Physics, Nanosciences, Quantum Physics, Optical physics**. Amsterdam: Elsevier, 2024, č. 520, art. no. 129731 [tlačená forma] [online]. ISSN 0375-9601. ISSN (online) 1873-2429. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 129731

2023 [01/20] / USA - Mikos-Nuszkiewicz, Antoni - Kaniewski, Jędrzej. **Extremal points of the quantum set in the Clauser-Horne-Shimony-Holt scenario** [elektronický dokument]: Conjectured analytical solution. DOI 10.1103/PhysRevA.108.012212 In: **Physical Review A**. Maryland: American Institute of Physics, 2023, Roč. 108, č. 1, art. no. 012212 [tlačená forma] [online]. ISSN 2469-9926. ISSN (online) 2469-9934. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 012212

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V3_014 / Plesch, Martin (Autor) (33.334%) - Plesník, Samuel (Autor) (33.333%) - Ružičková, Natália (Autor) (33.333%): The IYPT and the 'Ring Oiler' problem. – text, graf., obr. – DOI 10.1088/1361-6404/ab6414. – SCO ; SCIE ; OA ; CCC ; WOS CC.

In: *European Journal of Physics* [textový dokument (print)] [elektronický dokument] . – Bristol (Veľká Británia) : Institute of Physics. IOP Publishing. – ISSN 0143-0807. – ISSN (online) 1361-6404. – Roč. 41, č. 3 (2020), art. no. 034001, s. [1-12] [tlačená forma] [online]

Počet všetkých autorov: 3

[článok]

Lit.: 7

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 0.781 - 2020

SNIP: 0,887 - 2020

SJR: 0,421 - 2020

CiteScore: 1,7 - 2020

AIS: 0.220 - 2020

Kvartil Q:

2020, AIS - Education, scientific disciplines - Q4; **2020, AIS** - Physics, multidisciplinary - Q3; **2020, JIF** - Education, scientific disciplines - Q4; **2020, JIF** - Physics, multidisciplinary - Q4; **2020, Scimago** - Physics and astronomy (miscellaneous) - Q2

Ohlasy (2):

2025 [01/20] / GBR - Wei, Xiantao - Wang, Zhongping - Zhao, Wei - Zhang, Zengming - Sun, Lazhen. **Incorporating IYPT problems into large-enrollment introductory physics labs for inquiry-based learning** [elektronický dokument]. DOI 10.1088/1361-6404/adb66a In: **European Journal of Physics**. Bristol: Institute of Physics. IOP Publishing, 2025, Roč. 46, č. 2, art. no. 025804 [tlačená forma] [online]. ISSN 0143-0807. ISSN (online) 1361-6404. - SCO ; SCIE ; CCC ; WOS CC, s. art. no. 025804

2021 [01/20] / GBR - Fösel, A. **Focus on physics competitions - A résumé concerning submissions in 2020 and an encouragement for future submissions** [elektronický dokument]. DOI 10.1088/1361-6404/abd98c In: **European Journal**

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V3_015 / Marek, Martin (Autor) (33.334%) - Badin, Matej (Autor) (33.333%) - Plesch, Martin (Autor) (33.333%): **Physics of the mechanical toy Gee-Haw Whammy Diddle.** – text, graf. – DOI 10.1038/s41598-018-22079-1. – SCO ; SCIE ; OA ; CCC ; WOS CC.

In: *Scientific reports* [elektronický dokument] . – Londýn (Veľká Británia) : Springer Nature. Nature Publishing Group. – ISSN (online) 2045-2322. – Roč. 8 (2018), art. no. 3718, s. [1-10] [online]

Počet všetkých autorov: 3

[článok]

Lit.: 5

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 4,011 - 2018

SNIP: 1,274 - 2018

SJR: 1,414 - 2018

CiteScore: 6,40 - 2018

AIS: 1,286 - 2018

Kvartil Q:

2018, AIS - Multidisciplinary sciences - Q1; **2018, JCI** - Multidisciplinary sciences - Q1; **2018, JIF** - Multidisciplinary sciences - Q1; **2018, Scimago** - Multidisciplinary - Q1

Ohlasy (2):

2025 [01/20] / USA - Luttmann, Martin - Luttmann, Michel. **A story with twists and turns** [elektronický dokument]: How to control the rotation of the notched stick. DOI 10.1119/5.0225847 In: **American Journal of Physics:** a Publication of the American Association of Physics Teachers. Maryland: American Institute of Physics. American Association of Physics Teachers, 2025, Roč. 93, č. 2, s. 137-143 [tlačená forma] [online]. ISSN 0002-9505. ISSN (online) 1943-2909. - SCO ; WOS CC ; SCIE ; CCC, s. 137 - 143

2023 [01/20] / IND - Rajasekar, S. - Velusamy, R. - Sanjuan, Miguel A. F. **Understanding the Physics of Toys** [textový dokument (print)] [elektronický dokument] : Principles Theory and Exercises. T.Nagar: World Scientific Publishing, 2023. 1. vyd. ISBN 9789811293207. ISBN 978-981-12-6800-7. ISBN (online) 978-981-12-6802-1. - SCO, s. 1 - 470

V3_016 / Plesch, Martin (Autor) (33.334%) - Badin, Matej (Autor) (33.333%) - Ružičková, Natália (Autor) (33.333%): **The International Young Physicists' Tournament 2017.** – text, fotogr., graf. – DOI 10.1088/1361-6404/aaa889. – SCO ; SCIE ; CCC ; WOS CC.

In: *European Journal of Physics* [textový dokument (print)] [elektronický dokument] . – Bristol (Veľká Británia) : Institute of Physics. IOP Publishing. – ISSN 0143-0807. – ISSN (online) 1361-6404. – Roč. 39, č. 6 (2018), art. no. 064003, s. [1-10]

[tlačená forma] [online]

Počet všetkých autorov: 3

[článok]

Lit.: 6

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 0,861 - 2018

SNIP: 1,093 - 2018

SJR: 0,441 - 2018

CiteScore: 1,4 - 2018

Kvartil Q:

2018, JIF - Education, scientific disciplines - Q4; **2018, JIF** - Physics, multidisciplinary - Q4; **2018, Scimago** - Physics and astronomy (miscellaneous) - Q2

Ohlasy (2):

2020 [01/20] / USA - Fu, Xinghong. **Dynamic trajectory and parametric resonance in coupled pendulum-beam system** [elektronický dokument]. DOI 10.1119/10.0001389 In: **American Journal of Physics:** a Publication of the American Association of Physics Teachers. Maryland: American Institute of Physics. American Association of Physics Teachers,

2020, Roč. 88, č. 8, s. 625-639 [tlačená forma] [online]. ISSN 0002-9505. ISSN (online) 1943-2909. - SCO ; SCIE ; CCC ; WOS CC, s. 625 - 639

2020 [01/20] / GBR - Fu, Xinghong. **An analysis in the non-inertial frame: Ball in a rotating tube and the Taylor column** [elektronický dokument]. DOI 10.1088/1361-6404/ab8069 In: **European Journal of Physics**. Bristol: Institute of Physics. IOP Publishing, 2020, Roč. 41, č. 4, art. no. 045806 [tlačená forma] [online]. ISSN 0143-0807. ISSN (online) 1361-6404. - SCO ; SCIE ; CCC ; WOS CC, s. art. no. 045806

V3_017 / Plesch, Martin (Autor) (50%) - Pivoluska, Matej (Autor) (50%): **Loss of information in quantum guessing game.** – text, graf., obr. – DOI 10.1088/1367-2630/aaa5f8. – SCO ; SCIE ; OA ; CCC ; WOS CC.

In: *New Journal of Physics* [elektronický dokument] . – Bristol (Veľká Británia) : Institute of Physics. IOP Publishing. – ISSN (online) 1367-2630. – Roč. 20, č. 2 (2018), art. no. 023018, s. [1-10] [online]

Počet všetkých autorov: 2

[článok]

Lit.: 32

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 3.783 - 2018

SNIP: 1,146 - 2018

SJR: 1,664 - 2018

CiteScore: 7,1 - 2018

Kvartil Q:

2018, JIF - Physics, multidisciplinary - Q1; **2018, Scimago** - Physics and astronomy (miscellaneous) - Q1

Ohlasy (2):

2022 [01/20] / GBR - Carmeli, Claudio - Heinosaari, Teiko - Toigo, Alessandro. **Quantum guessing games with posterior information** [elektronický dokument]. DOI 10.1088/1361-6633/ac6f0e In: **Reports on Progress in Physics**: a journal recognized by the European Physical Society. Bristol: Institute of Physics. IOP Publishing, 2022, Roč. 85, č. 7, art. no. 074001 [tlačená forma]. ISSN 0034-4885. ISSN (online) 1361-6633. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 074001

2022 [01/20] / GBR - Zhao, Yuan Yuan - Rozpědek, Filip - Hou, Zhibo - Wu, Kang Da - Xiang, Guo Yong - Li, Chuan Feng - Guo, Guang Can. **Experimental study of quantum uncertainty from lack of information** [elektronický dokument]. DOI 10.1038/s41534-022-00572-w In: **NPJ quantum information**. Londýn: Springer Nature. Springer. Nature Portfolio, 2022, Roč. 8, č. 1, art. no. 64 [online]. ISSN (online) 2056-6387. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 64

V3_018 / Plesch, Martin (Autor) (33.334%) - Pawlowski, Marcin (Autor) (33.333%) - Pivoluska, Matej (Autor) (33.333%): **1-out-of-2 oblivious transfer using a flawed bit-string quantum protocol.** – text. – DOI 10.1103/PhysRevA.95.042324. – SCO ; SCIE ; CCC ; WOS CC.

In: *Physical Review A* [textový dokument (print)] [elektronický dokument] . – Maryland (USA) : American Institute of Physics. – ISSN 2469-9926. – ISSN (online) 2469-9934. – Roč. 95, č. 4 (2017), art. no. 042324, s. [1-6] [tlačená forma] [online]

Počet všetkých autorov: 3

[článok]

Lit.: 6

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

SNIP: 1,014 - 2017

CiteScore: 5,1 - 2017

Ohlasy (5):

2025 [01/20] / CHN - Gómez-Goiri, Aitor - Seco-Aguirre, Iñaki - Lage, Oscar - Ruiz, Alejandra. **Privacy-preserving computation meets quantum computing: A scoping review** [elektronický dokument]. DOI 10.1016/j.dcan.2025.05.010 In: **Digital Communications and Networks**. Peking: KEAI publishing, 2025, Roč. 11, č. 6, s. 1707-1721 [tlačená forma] [online]. ISSN 2468-5925. ISSN (online) 2352-8648. - SCO ; SCIE ; CCC ; WOS CC, s. 1707 - 1721

2023 [01/20] / USA - Kuo, Shu Yu - Tseng, Kuo Chun - Chou, Yao Hsin - Tseng, Fan Hsun. **Quantum Oblivious Transfer with Reusable Bell State** [elektronický dokument]. DOI 10.32604/cmc.2023.032320 In: **Computers, Materials &**

Continua. Henderson: Tech Science Press, 2023, Roč. 74, č. 1, s. 915-932 [tlačaná forma] [online]. ISSN 1546-2218. ISSN (online) 1546-2226. - SCO ; WOS CC ; SCIE ; CCC, s. 915 - 932

2021 [01/20] / CHN - Zhang, Yan Shuo - Zhao, Han Sen - Chen, Hui Yan - Yang, Ya Tao. **On scheme design of probabilistic 1 out of 2 oblivious transfer protocol.** DOI 10.13868/j.cnki.jcr.000437 In: **Journal of Cryptologic Research.** [s.l.]: Chinese Association for Cryptologic Research, 2021, Roč. 8, č. 2, s. 282-293 [tlačaná forma] [online]. ISSN 2095-7025. ISSN 2097-4116. - SCO, s. 282 - 293

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V3_019 / Plesch, Martin (Autor) (16.67%) - Eller, F. (Autor) (16.666%) - Kanitz, C. (Autor) (16.666%) - Landgraf, J. (Autor) (16.666%) - Raab, A. (Autor) (16.666%) - Selbach, S. (Autor) (16.666%): **The International Young Physicists' Tournament.** – text. – DOI 10.1088/1361-6404/38/3/034001. – SCO ; SCIE ; CCC ; WOS CC.

In: *European Journal of Physics* [textový dokument (print)] [elektronický dokument] . – Bristol (Veľká Británia) : Institute of Physics. IOP Publishing. – ISSN 0143-0807. – ISSN (online) 1361-6404. – Roč. 38, č. 3 (2017), art. no. 034001, s. [1-4] [tlačaná forma] [online]

Počet všetkých autorov: 6

[článok]

Lit.: 6

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 0.642 - 2017

SNIP: 0,763 - 2017

SJR: 0,337 - 2017

CiteScore: 1,1 - 2017

Ohlasy (2):

2026 [01/20] / GBR - Yu, Hongbin - Zheng, Jiawei - Yin, Hongyu - Xu, Zikun - Bian, Yongbin - Wang, Zhenyu - Liu, Wei. **Physics-informed acoustic detection of ball count in sealed containers** [elektronický dokument]. DOI 10.1088/1361-6404/ae6c6f In: **European Journal of Physics.** Bristol: Institute of Physics. IOP Publishing, 2026, Roč. 47, č. 3, art. no. 035804, s. [tlačaná forma] [online]. ISSN 0143-0807. ISSN (online) 1361-6404. - WOS CC ; SCIE ; CCC ; SCO, s. art. no. 035804

2017 [01/20] / GBR - Fösel, Angela - Mathelitsch, Leopold. **Focus on Physics Competitions 2016** [elektronický dokument]. DOI 10.1088/1361-6404/aa6724 In: **European Journal of Physics.** Bristol: Institute of Physics. IOP Publishing, 2017, Roč. 38, č. 3, art. no. 030201 [tlačaná forma] [online]. ISSN 0143-0807. ISSN (online) 1361-6404. - SCO ; SCIE ; CCC ; WOS CC, s. art. no. 030201

V3_020 / Pivoluska, Matej (Autor) (33.334%) - Pawlowski, Marcin (Autor) (33.333%) - Plesch, Martin (Autor) (33.333%): **Tight bound on the classical value of generalized Clauser-Horne-Shimony-Holt games.** – text. – DOI 10.1103/PhysRevA.94.022338. – SCO ; SCIE ; CCC ; WOS CC.

In: *Physical Review A* [textový dokument (print)] [elektronický dokument] . – Maryland (USA) : American Institute of Physics. – ISSN 2469-9926. – ISSN (online) 2469-9934. – Roč. 94, č. 2 (2016), art. no. 022338, s. [1-5] [tlačaná forma] [online]

Počet všetkých autorov: 3

[článok]

Lit.: 21

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Ohlasy (3):

2017 [01/20] / BGR - Shenoy-Hejamadi, Akshata - Pathak, Anirban - Radhakrishna, Srikanth. **Quantum cryptography: Key distribution and beyond** [elektronický dokument]. DOI 10.12743/quanta.v6i1.57 In: **Quanta**. Varna: Quanta, 2017, Roč. 6, č. 1, s. 1-47 [online]. ISSN (online) 13147374. - SCO, s. 1 - 47

2017 [01/20] / USA - Zhang, Ming. **What quantum technology will bring to our daily life?** [elektronický dokument]. DOI 10.1109/CAC.2017.8243155 In: **Proceedings 2017 Chinese Automation Congress**. Piscataway: Institute of Electrical and Electronics Engineers, 2017, s. 2281-2286 [online]. ISBN (online) 9781538635247. - SCO ; WOS CC ; CPCI-S, s. 2281 - 2286

2016 [01/20] / USA - Verbanis, Ephanielle - Martin, Anthony - Houlmann, Raphaël - Boso, Gianluca - Bussièrès, Félix - Zbinden, Hugo. **24-Hour Relativistic Bit Commitment** [elektronický dokument]. DOI 10.1103/PhysRevLett.117.140506 In: **Physical Review Letters**. College Park: American Institute of Physics. American Physical Society, 2016, Roč. 117, č. 14, art. no. 140506 [tlačená forma] [online]. ISSN 0031-9007. ISSN (online) 1079-7114. - SCO ; SCIE ; CCC ; WOS CC, s. art. no. 140506

V3_021 / Pivoluska, Matej (Autor) (50%) - Plesch, Martin (Autor) (50%): An explicit classical strategy for winning a CHSHq game. – text, graf. – DOI 10.1088/1367-2630/18/2/025013. – SCO ; SCIE ; OA ; CCC ; WOS CC.
In: New Journal of Physics [elektronický dokument] . – Bristol (Veľká Británia) : Institute of Physics. IOP Publishing. – ISSN (online) 1367-2630. – Roč. 18, č. 2 (2016), art. no. 025013, s. [1-10] [online]

Počet všetkých autorov: 2

[článok]

Lit.: 18

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

SNIP: 1,162 - 2016

SJR: 2,183 - 2016

CiteScore: 6,8 - 2016

Ohlasy (5):

2017 [01/20] / CHE - Bricout, Rémi - Chailloux, André. **Recursive cheating strategies for the relativistic fq bit commitment protocol** [elektronický dokument]. DOI 10.3390/cryptography1020014 In: **Cryptography**. Basel: Multidisciplinary Digital Publishing Institute, 2017, Roč. 1, č. 2, art. no. 14, s. 1-17 [online]. ISSN (online) 2410-387X. - SCO, s. art. no. 14

2017 [01/20] / USA - Liu, Bo Yang - Dai, Hong Yi - Zhang, Ming. **Playing distributed two-party quantum games on quantum networks** [elektronický dokument]. DOI 10.1007/s11128-017-1738-0 In: **Quantum Information Processing**. New York: Springer Nature, 2017, Roč. 16, č. 12, art. no. 290 [tlačená forma] [online]. ISSN 1570-0755. ISSN (online) 1573-1332. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 290

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V3_022 / Bouda, Jan (Autor) (25%) - Pawłowski, Marcin (Autor) (25%) - Pivoluska, Matej (Autor) (25%) - Plesch, Martin (Autor) (25%): Device-independent randomness extraction from an arbitrarily weak min-entropy source. – text, graf. –

DOI 10.1103/PhysRevA.90.032313. – SCO ; SCIE ; CCC ; WOS CC.

In: *Physical Review A* [textový dokument (print)] [elektronický dokument] : Atomic, molecular, and optical physics and quantum information. – College Park (USA) : American Institute of Physics. – ISSN 1050-2947. – ISSN (online) 1094-1622. – Roč. 90, č. 3 (2014), art. no. 032313, s. [1-6] [tlačená forma] [online]

Počet všetkých autorov: 4

[článok]

Lit.: 21

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

SNIP: 1,04 - 2014

SJR: 2,201 - 2014

CiteScore: 5,4 - 2014

Ohlasy (20):

2026 [01/20] / NLD - Mahato, Shyam Sundar. **Certified Quantum Randomness** [elektronický dokument]: Device-Independent and Semi-Device-Independent Approaches, Experimental Realizations, and Applications. DOI 10.1007/s10773-026-06288-3 In: **International Journal of Theoretical Physics**. New York: Springer Nature. Springer, 2026, Roč. 65, č. 3, art. no. 71 [tlačená forma] [online]. ISSN 0020-7748. ISSN (online) 1572-9575. ISSN (zrušené) 0538-8236. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 71

2025 [01/20] / USA - Wang, Wenjie - Li, Mengyan - Guo, Fenzhuo - Wang, Yukun - Gao, Fei. **Self-testing positive operator-valued measures and certifying randomness** [elektronický dokument]. DOI 10.1007/s11128-025-04773-y In: **Quantum Information Processing**. New York: Springer Nature, 2025, Roč. 24, č. 6, art. no. 157 [tlačená forma] [online]. ISSN 1570-0755. ISSN (online) 1573-1332. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 157

2025 [01/20] / AUT - Takakura, Ryo - Morisue, Kei - Watanabe, Issei - Kimura, Gen. **Trade-off relations between measurement dependence and hidden information for factorizable hidden variable models** [elektronický dokument]. DOI 10.22331/q-2025-03-14-1662 In: **Quantum**: the open journal for quantum science. Viedeň: Verein zur Förderung des Open Access Publizierens in den Quantenwissenschaften, 2025, Roč. 9, č. 14. marec, art. no. 1662 [online]. ISSN (online) 2521-327X. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 1662

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2022 [01/20] / DEU - Chowdhury, Sreeja - Covic, Ana - Acharya, Rabin Yu - Dupee, Spencer - Ganji, Fatemeh - Forte, Domenic. **Physical security in the post-quantum era** [elektronický dokument]: A survey on side-channel analysis, random number generators, and physically unclonable functions. DOI 10.1007/s13389-021-00255-w In: **Journal of Cryptographic Engineering**. Heidelberg: Springer Nature. Springer, 2022, Roč. 12, č. 3, s. 267-303 [tlačená forma] [online]. ISSN 21908508. ISSN (online) 21908516. - SCO ; WOS CC ; SCIE ; CCC, s. 267 - 303

2022 [01/20] / USA - Guo, Fen Zhuo - Lv, Ze Tian - Wei, Shi Hui - Wen, Qiao Yan. **Effects of measurement dependence on 1-parameter family of Bell tests** [elektronický dokument]. DOI 10.1007/s11128-021-03300-z In: **Quantum Information Processing**. New York: Springer Nature, 2022, Roč. 21, č. 1, art. no. 28 [tlačená forma] [online]. ISSN 1570-0755. ISSN (online) 1573-1332. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 28

2021 [01/20] / NLD - Niu, Mengfei - Chen, Zhengli - Lv, Xiaole - Wang, Wenhua. **A Note of Bell Inequalities for Graph States** [elektronický dokument]. DOI 10.1007/s10773-020-04647-2 In: **International Journal of Theoretical Physics**. New York: Springer Nature. Springer, 2021, Roč. 60, č. 7, s. 2511-2519 [tlačená forma] [online]. ISSN 0020-7748. ISSN (online) 1572-9575. ISSN (zrušené) 0538-8236. - SCO ; WOS CC ; SCIE ; CCC, s. 2511 - 2519

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Počet všetkých autorov: 2

[článok]

Lit.: 93

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

SNIP: 0,819 - 2014

SJR: 0,667 - 2014

CiteScore: 5,3 - 2014

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V3_024 / Plesch, Martin (Autor) (25%) - Dahlsten, Oscar (Autor) (25%) - Goold, John (Autor) (25%) - Vedral, Vlatko (Autor) (25%); **Maxwell's Daemon: Information versus Particle Statistics**. – text, obr. – DOI 10.1038/srep06995. – SCO ; SCIE ; OA ; WOS CC.

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Počet všetkých autorov: 4

[článok]

Lit.: 13

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

IF: 5,578 - 2014

SNIP: 1,580 - 2014

SJR: 2,163 - 2014

CiteScore: 4,20 - 2014

AIS: 2,075 - 2014

Kvartil Q:

2014, AIS - Multidisciplinary sciences - Q1; **2014, JIF** - Multidisciplinary sciences - Q1; **2014, Scimago** - Multidisciplinary - Q1

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V3_025 / Plesch, Martin (Autor) (50%) - Pivoluska, Matej (Autor) (50%): **Device-independent randomness amplification with a single device.** – text, graf., tab. – DOI 10.1016/j.physleta.2014.08.007. – SCO ; SCIE ; CCC ; WOS CC.

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Počet všech autorů: 2

[článok]

Lit.: 28

[OV 091 Fyzika]

[ŠO 1160 fyzika]

Indikátor časopisu:

SNIP: 0,964 - 2014

SJR: 0,684 - 2014

CiteScore: 3,3 - 2014

Ohlasy (6):

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V3_026 / Plesch, Martin (Autor) (25%) - Dahlsten, Oscar (Autor) (25%) - Goold, John (Autor) (25%) - Vedral, Vlatko (Autor) (25%): **Comment on Quantum Szilard Engine'.** – text. – DOI 10.1103/PhysRevLett.111.188901. – SCO ; WOS CC ; CCC ; SCIE.

In: *Physical Review Letters* [textový dokument (print)] [elektronický dokument] . – College Park (USA) : American Institute of Physics. American Physical Society. – ISSN 0031-9007. – ISSN (online) 1079-7114. – Roč. 111, č. 18 (2013), art. no. 188901,

s. [1-1] [tlačená forma] [online]

Počet všetkých autorov: 4

[článok]

[OV 091 Fyzika]

Indikátor časopisu:

SNIP: 2,733 - 2013

SJR: 5,675 - 2013

CiteScore: 13,5 - 2013

Ohlasy (13):

2025 [01/20] / USA - de Oliveira Junior, A. - Brask, Jonatan Bohr - Chaves, Rafael. **A Friendly Guide to Exorcising Maxwell's Demon** [elektronický dokument]. DOI 10.1103/phkv-wrsd In: **Prx Quantum**. College Park: American Institute of Physics. American Physical Society, 2025, Roč. 6, č. 3, art. no. 030201 [online]. ISSN (online) 2691-3399. - SCO ; WOS CC ; SCIE ; CCC, s. art. no. 030201

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Počet všech autorů: 3

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Lit.: 34

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Počet všetkých autorov: 2

[článok]

[OV 091 Fyzika]

Indikátor časopisu:

SNIP: 1,271 - 2011

SJR: 2,316 - 2011

CiteScore: 5 - 2011

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V3_039 / Plesch, Martin (Autor) (50%) - Bužek, Vladimír (Autor) (50%): Entangled graphs 2 : Classical correlations in multiqubit entangled systems [Entangled graphs. II. Classical correlations in multiqubit entangled systems]. – text. – DOI 10.1103/PhysRevA.68.012313. – SCO ; WOS CC ; CCC ; SCIE.

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V3_040 / Plesch, Martin (Autor) (50%) - Bužek, Vladimír (Autor) (50%): **Entangled graphs**. – text. – SCO ; WOS CC ; CCC ; SCIE ; CPCI-S.

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Počet všetkých autorov: 2

[článok z podujatia]

[OV 091 Fyzika]

Ohlasy (2):

2005 [01/20] / USA - Koniorczyk, Mas - Rapdan, Peter - Bubeek, Vladim R. **Direct versus measurement-assisted bipartite entanglement in multiqubit systems and their dynamical generation in spin systems** [elektronický dokument]. DOI 10.1103/PhysRevA.72.022321 In: **Physical Review A: Atomic, molecular, and optical physics and quantum information**. College Park: American Institute of Physics, 2005, Roč. 72, č. 2, art. no. 022321 [tlačená forma] [online]. ISSN 1050-2947. ISSN (online) 1094-1622. - SCO ; SCIE ; CCC ; WOS CC, s. art. no. 022321

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P1 Pedagogický výstup publikačnej činnosti ako celok

Počet výstupov: 1

P1_001 / Faletič, Sergej (Autor) (9.1%) - Aneva, Boyka (Autor) (9.09%) - Hömöstreit, Mihály (Autor) (9.09%) - Jenei, Peter (Autor) (9.09%) - Éva, Isza (Autor) (9.09%) - Kundracik, František (Autor) [UKOMFKEF] (9.09%) - Kyulldjiev, Assen (Autor) (9.09%) - Lindner, Thomas (Autor) (9.09%) - Němec, Hynek (Autor) (9.09%) - Puhr, Harald (Autor) (9.09%) - Plesch, Martin (Autor) (9.09%): **YPT toolkit** [elektronický dokument] : A guide for implementing YPT-inspired activities in class and prepare teams for YPT competitions. – 1. vyd. – Bratislava (Slovensko) : Slovenská akadémia vied. Pracoviská SAV. Fyzikálny ústav, 2021. – 61 s. [online] : text, tab. – ISBN (online) 978-80-971975-5-1

Počet všetkých autorov: 11

Development of Inquiry Based Learning via iYPT

[didaktická príručka]

[OV 091 Fyzika - OV 010 Pedagogické vedy]

[ŠO 1160 fyzika - ŠO 7605 učiteľstvo a pedagogické vedy]

I1 Iný výstup publikačnej činnosti ako celok

Počet výstupov: 2

I1_001 / Aneva, Boyka (Autor) (10%) - Faletič, Sergej (Autor) (10%) - Hömöstreit, Mihály (Autor) (10%) - Jenei, Peter (Autor) (10%) - Kundracik, František (Autor) [UKOMFKEF] (10%) - Kyulldjiev, Assen (Autor) (10%) - Lindner, Thomas (Autor) (10%) - Němec, Hynek (Autor) (10%) - Puhr, Harald (Autor) (10%) - Plesch, Martin (Autor) (10%): **Development of Soft Skills via iYPT** [elektronický dokument] : How does YPT participation lead to soft-skill development?. – 1. vyd. – Viedeň (Rakúsko) : Wirtschaftsuniversität Wien, 2022. – 76 s. [online] : text, graf., tab. – ISBN (online) 978-3-200-08423-0

Počet všetkých autorov: 10

Development of Inquiry Based Learning via iYPT

[iný]

Lit.: 66

[OV 091 Fyzika]

[ŠO 1160 fyzika]

I1_002 / Aneva, Boyka (Autor) (9.1%) - Faletič, Sergej (Autor) (9.09%) - Hömöstrei, Mihály (Autor) (9.09%) - Jenei, Peter (Autor) (9.09%) - Éva, Isza (Autor) (9.09%) - Kundracik, František (Autor) [UKOMFKEF] (9.09%) - Kyuldjiev, Assen (Autor) (9.09%) - Lindner, Thomas (Autor) (9.09%) - Němec, Hynek (Autor) (9.09%) - Puhr, Harald (Autor) (9.09%) - Plesch, Martin (Autor) (9.09%): **Development of Scientific Skills via IYPT** [elektronický dokument] : How does YPT participation lead to hard-skill development?. – 1. vyd. – Budapešť (Maďarsko) : Eötvös Loránd Tudományegyetem, 2022. – 85 s. [online] : text, graf., tab. – ISBN (online) 978-963-489-460-5

Počet všech autorů: 11

Development of Inquiry Based Learning via iYPT

[iný]

Lit.: 53

[OV 091 Fyzika]

[ŠO 1160 fyzika]

I3 Iný výstup publikačnej činnosti z časopisu

Počet výstupov: 3

I3_001 / Plesch, Martin (Autor) (50%) - Pivoluska, Matej (Autor) (50%): **Single min-entropy random source can be amplified.**

In: *arXiv.org* [elektronický dokument] . – New York (USA) : Cornell University Press. Cornell University Library. – ISSN (online) 2331-8422. – 2013, s. 1-5 [online]

Počet všech autorů: 2

[iný]

[OV 240 Matematika a statistika]

I3_002 / Plesch, Martin (Autor) (25%) - Dahlsten, Oscar (Autor) (25%) - Goold, John (Autor) (25%) - Vedral, Vlatko (Autor) (25%): **Measurement and particle statistics in the Szilard engine.** – text.

In: *arXiv.org* [elektronický dokument] . – New York (USA) : Cornell University Press. Cornell University Library. – ISSN (online) 2331-8422. – 2012, s. 1-5 [online]

Počet všech autorů: 4

[iný]

[OV 240 Matematika a statistika]

I3_003 / Hannemann, Thilo (Autor) (20%) - Wunderlich, Christof (Autor) (20%) - Plesch, Martin (Autor) (20%) - Ziman, Mário (Autor) (20%) - Bužek, Vladimír (Autor) (20%): **Scrutinizing single-qubit quantum channels: Theory and experiment with trapped ions.** – text.

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Počet všech autorů: 5

[iný]

[OV 240 Matematika a statistika]

Ohlasy (2):

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ADC Vedecké práce v zahraničných karentovaných časopisoch

Počet výstupov: 1

ADC_001 / Bouda, Jan (Autor) (34%) - Pivoluska, Matej (Autor) (33%) - Plesch, Martin (Autor) (33%): **Encryption with weakly random keys using a quantum ciphertext.** – text. – SCO ; WOS CC ; CCC ; SCIE.

In: *Quantum information and computation* [textový dokument (print)] [elektronický dokument] . – Princeton (USA) : Rinton Press. – ISSN 1533-7146. – ISSN (online) 3106-0544. – Roč. 12, č. 5-6 (2012), s. 395-403 [tlačená forma] [online]

Počet všetkých autorov: 3

[článok]

[OV 091 Fyzika]

Indikátor časopisu:

SNIP: 0,822 - 2012

SJR: 1,082 - 2012

CiteScore: 3,1 - 2012

ADD Vedecké práce v domácich karentovaných časopisoch

Počet výstupov: 1

ADD_001 / Plesch, Martin (Autor) [UKOMF] (100%): **Stabilization via covariant symmetrization.** – SCO ; WOS CC ; CCC.

In: *Acta Physica Slovaca* [textový dokument (print)] [elektronický dokument] : journal for experimental and theoretical physics. – Bratislava (Slovensko) : Slovenská akadémia vied. Pracoviská SAV. Fyzikálny ústav. – ISSN 0323-0465. – ISSN (online) 1336-040X. – Roč. 52, č. 5 (2002), s. 409-417 [tlačená forma] [online]

Počet všetkých autorov: 1

[článok]

AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách

Počet výstupov: 2

AED_001 / Pišút, Ján (Autor) [UKOMFKTFDF] (25%) - Pleschová, Gabriela (Autor) [UKOFIPA] (25%) - Plesch, Martin (Autor) [UKOMF] (25%) - Pišútová-Gerber, Katarína (Autor) (25%): **Školstvo.** – text. – [recenzované].

In: *Slovensko 2003* [textový dokument (print)] : súhrnná správa o stave spoločnosti / Kollár, Miroslav [Zostavovateľ, editor] ; Mesežnikov, Grigorij [Zostavovateľ, editor]. – 1. vyd. – Bratislava (Slovensko) : Inštitút pre verejné otázky, 2003. – ISBN 80-88935-57-1, s. 607-625 [tlačená forma]

Počet všetkých autorov: 4

[príspevok]

Lit.: 27

[OV 010 Pedagogické vedy]

AED_002 / Pišút, Ján (Autor) [UKOMFKTFDF] (25%) - Pleschová, Gabriela (Autor) [UKOFIPA] (25%) - Plesch, Martin (Autor) [UKOMF] (25%) - Šranková, Zuzana (Autor) (25%): **Školstvo.** – text. – [recenzované].

In: *Slovensko 2002 : súhrnná správa o stave spoločnosti* [textový dokument (print)] / [bez zostavovateľa] [Zostavovateľ, editor]. – 1. vyd. – Bratislava (Slovensko) : Inštitút pre verejné otázky, 2002. – Slovensko v pohybe. – ISBN 80-88935-40-7, s. 231-251 [tlačená forma]

Počet všetkých autorov: 4

[príspevok]

Lit.: 12

[OV 010 Pedagogické vedy]

AFD Publikované príspevky na domácich vedeckých konferenciách

Počet výstupov: 1

AFD_001 / Kundracik, František (Autor) [UKOMFKEF] (25%) - Plesch, Martin (Autor) (25%) - Dzirbiková, Z. (Autor) (25%) - Kubinec, P. (Autor) (25%): **The role of complex experiments in the education of science.** – text, obr. – [recenzované].

In: *17th conference of Slovak physicists* [textový dokument (print)] [elektronický dokument] : proceedings = 16.-19.9.2009 Hotel Družba, Bratislava / Reiffers, Marián [Zostavovateľ, editor]. – 1 vyd. – [Bratislava] (Slovensko) : Slovenská fyzikálna

spoločnosť, 2009. – ISBN 978-80-969124-7-6, s. 87-88 [tlačená forma] [CD-ROM]
Konferencia slovenských fyzikov 2009, 17 [Bratislava, Slovensko, 16.09.2009-19.09.2009]
Počet všetkých autorov: 4
[príspevok z podujatia]
Lit.: 2
[OV 091 Fyzika]

AFH Abstrakty príspevkov z domácich vedeckých konferencií

Počet výstupov: 1

AFH_001 / Kundracik, František (Autor) [UKOMFKEF] (20%) - Plesch, Martin (Autor) (20%) - Kubinec, Pavol (Autor) (20%) - Dzirkíková, Zuzana (Autor) [UKOPRBZF] (20%) - Dornhoferova, Renata (Autor) (20%): **Úloha komplexného experimentu vo vzdelávaní žiakov základných a stredných škôl.** – text.

In: 17. Konferencia slovenských fyzikov [textový dokument (print)] : zborník abstraktov / [bez zostavovateľa] [Zostavovateľ, editor]. – 1 vyd. – Bratislava (Slovensko) : Univerzita Komenského v Bratislave. Fakulta matematiky, fyziky a informatiky UK, 2009. – ISBN (chybné) nemá, s. 32-32 [tlačená forma]

Konferencia slovenských fyzikov 2009, 17 [Bratislava, Slovensko, 16.09.2009-19.09.2009]

Počet všetkých autorov: 5

[abstrakt z podujatia - KP]

[OV 091 Fyzika - OV 130 Vedy o živjej prírode]

BCI Skriptá a učebné texty

Počet výstupov: 1

BCI_001 / Kundracik, František (Autor) [UKOMFKEF] (20%) - Plesch, Martin (Autor) (20%) - Dornhoferova, Renata (Autor) (20%) - Ševčovičová, Andrea (Autor) [UKOPRBGE] (20%) - Kubinec, Pavol (Autor) (20%): **Olympiáda mladých vedcov** [textový dokument (print)] : Zbierka riešených úloh. – 1. vyd. – Bratislava (Slovensko) : Turnaj mladých fyzikov, 2011. – 156 s. [tlačená forma] : text. – ISBN 978-80-970678-6-1

Počet všetkých autorov: 5

[skriptum (do 2021)]

[OV 091 Fyzika - OV 130 Vedy o živjej prírode]

DAI Dizertačné a habilitačné práce

Počet výstupov: 1

DAI_001 / Plesch, Martin (Autor) [UKOMF] (100%): **Kvantové korelácie v mnohočasticových systémoch** [textový dokument (print)] . – 1 vyd. – Bratislava (Slovensko) : [s.n.], 2004. – 107 s.

Počet všetkých autorov: 1

[iný]

Lit.: 46

ŠTATISTIKA ZÁZNAMOV: 58

Podľa kategórie EPC od roku 2022

Počet všetkých záznamov: 50

V2 - Vedecký výstup publikačnej činnosti ako časť editovanej knihy alebo zborníka: 4

V3 - Vedecký výstup publikačnej činnosti z časopisu: 40

P1 - Pedagogický výstup publikačnej činnosti ako celok: 1

I1 - Iný výstup publikačnej činnosti ako celok: 2

I3 - Iný výstup publikačnej činnosti z časopisu: 3

Podľa kategórie EPC do roku 2021

Počet všetkých záznamov: 8

ADC - Vedecké práce v zahraničných karentovaných časopisoch: 1

ADD - Vedecké práce v domácich karentovaných časopisoch: 1
AED - Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách: 2
AFD - Publikované príspevky na domácich vedeckých konferenciách: 1
AFH - Abstrakty príspevkov z domácich vedeckých konferencií: 1
BCI - Skriptá a učebné texty: 1
DAI - Dizertačné a habilitačné práce: 1

Podľa typu dokumentu

článok: 39
príspevok: 2
príspevok z podujatia: 4
abstrakt z podujatia - KP: 1
kapitola: 1
didaktická príručka: 1
článok z podujatia: 3
skriptum (do 2021): 1
iný: 6

Podľa krajiny vydania

Počet domácich vydání: 9
Počet zahraničných vydání: 49

Podľa oblasti výskumu

010 Pedagogické vedy: 6
091 Fyzika: 51
100 Environmentalistika a ekológia: 1
120 Chémia, chemická technológia a biotechnológia: 1
130 Vedy o živej prírode: 2
240 Matematika a štatistika: 3

Podľa študijného odboru

1160 fyzika: 32
1420 chémia: 3
1610 ekologické a environmentálne vedy: 1
7605 učiteľstvo a pedagogické vedy: 4

Podľa podujatia

Počet všetkých konferenčných publikácií a príspevkov: 8
Z toho na domácich podujatiach: 4
Z toho na zahraničných podujatiach: 4

Podľa projektov

Počet publikácií s naviazaným projektom: 31

Podľa databáz a citačných indexov (obsahuje čakateľov)

BIOSIS Citation Index: 1
CCC Current Content Connect: 40
MEDLINE®: 1
OA Open access: 11
PubMed: 1
SCO SCOPUS: 46
WOS CC Web of Science Core Collection: 42
CPCI-S Conference Proceedings Citation Index - Science: 3
SCIE Science Citation Index Expanded: 41

Podľa metrik

AIS: 11
CiteScore: 25

IF: 14
Nordic List: 6
SJR: 24
SNIP: 25

Podľa kvartilov

Počet záznamov s kvartilom AIS: 11
Z toho Q1: 4
Z toho Q2: 6
Z toho Q3: 3
Z toho Q4: 1
Počet záznamov s kvartilom JCI: 6
Z toho Q1: 4
Z toho Q2: 3
Z toho Q3: 1
Počet záznamov s kvartilom JIF: 13
Z toho Q1: 6
Z toho Q2: 6
Z toho Q4: 2
Počet záznamov s kvartilom Scimago: 13
Z toho Q1: 11
Z toho Q2: 4
Z toho Q3: 1

ŠTATISTIKA OHLASOV: 726

Počet publikácií s ohlasom: 38

Podľa kategórie ohlasov

Počet ohlasov kategorizovaných podľa vyhlášky č. 456/2012: 2

Z toho bez autocitácií: 2
01 Citácie v zahraničných publikáciách registrované v citačných indexoch WOS CC a SCOPUS: 2
Z toho bez autocitácií: 2

Počet ohlasov kategorizovaných podľa vyhlášky č. 397/2020: 724

Z toho bez autocitácií: 724
01 Citácia v publikácii registrovaná v citačných indexoch: 723
Z toho bez autocitácií: 723
02 Citácia v publikácii vrátane citácie v publikácii registrovanej v iných databázach okrem citačných indexov: 1
Z toho bez autocitácií: 1

Počet indexovaných ohlasov

CCC Current Content Connect: 533
SCO SCOPUS: 719
WOS CC Web of Science Core Collection: 663
BKCI-S Book Citation Index - Science: 2
CPCI-S Conference Proceedings Citation Index - Science: 48
ESCI Emerging Sources Citation Index: 72
SCIE Science Citation Index Expanded: 542
SSCI Social Sciences Citation Index: 5

Počet ohlasov podľa teritoriality

Počet zahraničných vydaní: 726