

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

Zoznam publikačnej činnosti

Mgr. Peter Čermák, PhD.

AAA Vedecké monografie vydané v zahraničných vydavateľstvách

AAA01 Čermák, Peter [UKOMFKEF] (100%) : High sensitivity optical spectroscopy of plasma and gases. - [1.] vyd. - Saarbrücken : LAP Lambert Academic Publishing, 2011. - 106 s. ISBN 978-3-8465-3250-8

ADC Vedecké práce v zahraničných karentovaných časopisoch

ADC01 Campargue, Alain - Wang, Le - Čermák, Peter [UKOMFKEF] (25%) - Hu, Shui-Ming: ICLAS-VeCSEL and FTS spectroscopies of C₂H₂ between 9000 and 9500 cm⁻¹
Lit. 23 zázn., 3 obr., 3 tab.
In: Chemical Physics Letters. - Vol. 403, No. 4-6 (2005), s. 287-292. - ISSN 0009-2614
Ohlasy (2):
[o1] 2007 Herman, M.: The acetylene ground state saga. In: Molecular Physics, Vol. 105, No. 17-18, 2007, s. 2217-2241 - SCI ; SCOPUS
[o1] 2010 Kuznetsov, M.: VECSEL semiconductor lasers: A path to high-power, quality beam, and UV to IR wavelength by design. In: Semiconductor disk lasers : physics and technology. Weinheim : Wiley-VCH, 2010, S. 65 - SCOPUS

ADC02 Triki, Mariem - Čermák, Peter [UKOMFKEF] (18%) - Cerutti, Laurent - Garnache, Arnaud - Romanini, Daniele: Extended continuous tuning of a single-frequency diode-pumped vertical-external-cavity surface-emitting laser at 2.3 μm
Lit. 7 zázn.
In: IEEE Photonics Technology Letters. - Vol. 20, No. 23 (2008), s. 1947-1949. - ISSN 1041-1135
Ohlasy (3):
[o1] 2010 Kuznetsov, M.: VECSEL semiconductor lasers: A path to high-power, quality beam, and UV to IR wavelength by design. In: Semiconductor disk lasers : physics and technology. Weinheim : Wiley-VCH, 2010, S. 69 - SCOPUS
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ADC03 Triki, Mariem - Čermák, Peter [UKOMFKEF] (25%) - Méjean, G. - Romanini, Daniele: Cavity-enhanced absorption spectroscopy with a red LED source for NO_x trace analysis
Lit. 15 zázn., 4 obr.
In: Applied Physics B-Lasers and Optics. - Vol. 91, No. 1 (2008), s. 195-201. - ISSN 0946-2171
Ohlasy (43):
[o1] 2008 Gherman, T. - Venables, D. S. - Vaughan, S. - Orphal, J. - Ruth, A. A.: Incoherent broadband cavity-enhanced absorption spectroscopy in the near-ultraviolet: Application to HONO and NO₂. In: Environmental Science and Technology, Vol.42, No. 3, 2008, s. 890-895 - SCOPUS
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Lit. 30 zázň., 3 obr., 1 tab.

In: Chemical Physics Letters. - Vol. 467, No. 4-6 (2009), s. 233-236. - ISSN 0009-2614

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ADC05 Čermák, Peter [UKOMFKEF] (20%) - Triki, Mariem - Garnache, Arnaud - Cerutti, Laurent - Romanini, Daniele: Optical-feedback cavity-enhanced absorption spectroscopy using a short-cavity vertical-external-cavity surface-emitting laser
Lit. 11 zázň.

In: IEEE Photonics Technology Letters. - Vol. 22, No. 21 (2010), s. 1607-1609. - ISSN 1041-1135

Ohlasy (4):

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ADC06 Földes, Tomáš [UKOMFKEFd] (12%) - Čermák, Peter [UKOMFKEF] (12%) - Rakovský, Jozef [UKOMFKEFd] (12%) - Macko, Martin [UKOMFKId] (12%) - Krištof, Jaroslav [UKOMFKEF] (12%) - Veis, Pavel [UKOMFKEF] (12%) - Macko, Peter [UKOMFKEF] (12%): ElectronicDFB laser switching for continuous wave cavity ring-down spectroscopy

Lit. 9 zázň.

In: Electronics Letters. - Vol. 46, No. 7 (2010), s. 523-524. - ISSN 0013-5194

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ADC07 Cacciani, Patrice (17%) - Čermák, Peter [UKOMFKEF] (17%) - Cosléou, Jean (17%) - Khelkhal, Mohamed (17%) - Jeseck, P. (16%) - Michaut, X. (16%): New progress in spectroscopy of ammonia in the infrared 1.5 μm range using evolution of spectra from 300 K down to 122 K

Lit. 20 zázň.

In: Journal of Quantitative Spectroscopy and Radiative Transfer. - Vol. 113, No. 11, Sp. Iss. (2012), s. 1084-1091. - ISSN 0022-4073

Ohlasy (10):

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- [o1] 2014 Földes, T. - Golebiowski, D. - Herman, M. - Softley, T. P. - Di Lonardo, G. - Fusina, L.: Low-temperature high-resolution absorption spectrum of (NH₃)-N-14 in the $\nu(1) + \nu(3)$ band region (1.51 μm). In: Molecular Physics, Vol. 112, No. 18, 2014, s. 2407-2418 - SCI ; SCOPUS
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ADC08 Čermák, Peter [UKOMFKEF] (50%) - Cacciani, Patrice (4%) - Cosléou, Jean (4%) - Khelkhal, Mohamed (3%) - Hovorka, Juraj [UKOMFKEFd] (15%) - Jeseck, P. (3%) - Michaut, X. (3%) - Moudens, A. (3%) - Fillion, J.-H. (3%) - Bertin, M. (3%) - Boursier, C. (3%) - Martin, C. (3%) - Pardanaud, C. (3%): Observation of methane nuclear spin isomers in gas phase at low temperature
Lit. 19 zázň.
In: Journal of Molecular Spectroscopy. - Vol. 279 (2012), s. 37-43. - ISSN 0022-2852

ADC09 Cacciani, Patrice (17%) - Čermák, Peter [UKOMFKEF] (17%) - Cosléou, Jean (17%) - El Romh, J. (17%) - Hovorka, J. (16%) - Khelkhal, Mohamed (16%): Spectroscopy of ammonia in the range 6626-6805 cm⁻¹: using temperature dependence towards a complete list of lower state energy transitions
Lit. 25 zázň., 10 obr.

In: Molecular Physics. - Vol. 112, No. 18 (2014), s. 2476-2485. - ISSN 0026-8976

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ADC10 Čermák, Peter [UKOMFKEF] (30%) - Hovorka, Juraj [UKOMFKEFd] (30%) - Veis, Pavel [UKOMFKEF] (20%) - Cacciani, Patrice (5%) - Cosléou, Jean (5%) - El Romh, J. (5%) - Khelkhal, Mohamed (5%): Spectroscopy of ¹⁴NH₃ and ¹⁵NH₃ in the 2.3 μm spectral range with a new VECSEL laser source
Lit. 22 zázň., 11 obr., 2 tab.

In: Journal of Quantitative Spectroscopy and Radiative Transfer. - Vol. 137 (2014), s. 13-22. - ISSN 0022-4073

Ohlasy (9):

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ADC11 Rakovský, Jozef (25%) - Čermák, Peter [UKOMFKEF] (25%) - Musset, Oliver (25%) - Veis, Pavel [UKOMFKEF] (25%): A review of the development of portable laser induced breakdown spectroscopy and its applications

Lit. 141 zázň., 6 obr., 6 tab.

In: Spectrochimica Acta Part B - Atomic Spectroscopy. - Vol. 101 (2014), s. 269-287. - ISSN 0584-8547 *Ohlasy (48)*:

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ADC12 Mondelain, Didier (20%) - Vasilchenko, S. (20%) - Čermák, Peter [UKOMFKEF] (20%) - Kassi, Samir (20%) - Campargue, Alain (20%): The self- and foreign-absorption continua of water vapor by cavity ring-down spectroscopy near 2.35 μm
Lit. 30 zázň., 10 obr., 3 tab.

In: Physical Chemistry Chemical Physics. - Vol. 17, No. 27 (2015), s. 17762-17770. - ISSN 1463-9076

Registrované v: wos

Registrované v: scopus

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- ADC13 Cacciani, Patrice (20%) - Cosléou, Jean (20%) - Khelkhal, Mohamed (20%) - Čermák, Peter [UKOMFKEF] (20%) - Puzzarini, Cristina (20%): Nuclear spin conversion in CH₄: a multichannel relaxation mechanism
Lit. 56 zázň., 5 obr., 4 tab.
In: Journal of Physical Chemistry A. - Vol. 120, No. 2 (2016), s. 173-182. - ISSN 1089-5639
Registrované v: vos
Registrované v: scopus
Indikátor časopisu:
IF (JCR) 2016=2,847
Ohlasy (1):
[o1] 2018 Singer, P. M. - Asthagiri, D. - Chapman, W. G. - Hirasaki, G. J.: NMR spin-rotation relaxation and diffusion of methane. In: Journal of Chemical Physics, Vol. 148, No. 20, 2018, Art. No. 204504 - SCI ; SCOPUS
- ADC14 Casado, Mathieu (8%) - Landais, Amaelle (8%) - Masson-Delmotte, Valérie (8%) - Genthon, Christophe (8%) - Kerstel, Erik (8%) - Kassi, Samir (8%) - Arnaud, Laurent (8%) - Picard, Ghislain (8%) - Prie, Frederic (8%) - Cattani, Olivier (8%) - Steen-Larsen, Hans-Christian (6%) - Vignon, Etienne (6%) - Čermák, Peter [UKOMFKEF] (8%): Continuous measurements of isotopic composition of water vapour on the East Antarctic Plateau
Lit. 70 zázň., 10 obr., 5 tab.
In: Atmospheric Chemistry and Physics. - Vol. 16, No. 13 (2016), s. 8521-8538. - ISSN 1680-7316
Registrované v: vos
Registrované v: scopus
Indikátor časopisu:
IF (JCR) 2016=5,318
Ohlasy (5):
[o1] 2016 Schoenemann, Spruce W.; Steig, Eric J.: Seasonal and spatial variations of O-17(excess) and d(excess) in Antarctic precipitation: Insights from an intermediate complexity isotope model. In: Journal of Geophysical Research:Atmospheres, Vol. 121, No. 19, 2016, s. 112015-11247 - SCI ; SCOPUS
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[o1] 2018 Shi, G. - Buffen, A. M. - Ma, H. - Hu, Z. - Sun, B. - Li, C. - Yu, J. - Ma, T. - An, C. - Jiang, S. - Li, Y. - Hastings, M. G.: Distinguishing summertime atmospheric production of nitrate across the East Antarctic Ice Sheet. In: Geochimica Et Cosmochimica Acta, Vol. 231, 2018, s. 1-14 - SCI ; SCOPUS
- ADC15 Čermák, Peter [UKOMFKEF] (9%) - Chomet, Baptiste (9%) - Ferrières, Laurence (9%) - Vasilchenko, S. (9%) - Mondelain, Didier (9%) - Kassi, Samir (9%) - Campargue, Alain (8%) - Denet, Stéphane (8%) - Lecocq, Vincent (8%) - Myara, Mikhael (8%) - Cerutti, Laurent (7%) - Garnache, Arnaud (7%): CRDS with a VECSEL for broad-band high sensitivity spectroscopy in the 2.3 micro m window
Lit. 35 zázň., 11 obr.
In: Review of Scientific Instruments. - Vol. 87, No. 8 (2016), Art. No. 083109, s. 1-8. - ISSN 0034-6748
Registrované v: vos
Registrované v: scopus
Indikátor časopisu:
IF (JCR) 2016=1,515
Ohlasy (1):
[o1] 2017 Guina, M. - Rantamaki, A. - Harkonen, A.: Optically pumped VECSELs: review of technology and progress. In: Journal of Physics D-Applied Physics, Vol. 50, No. 38, 2017, Art. No. 383001 - SCI ; SCOPUS

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Lit. 23 zázň., 8 obr., 2 tab.
In: Journal of Molecular Spectroscopy. - Vol. 326 (2016), s. 122-129. - ISSN 0022-2852
Registrované v: vos
Registrované v: scopus
Indikátor časopisu:
IF (JCR) 2016=1,618
Ohlasy (2):
[o1] 2016 Jacquinet-Husson, N. - Flaud, J. M. - Gamache, R. R. - Predoi-Cross, A. - Vander Auwera, J.: New visions of spectroscopic databases: An introduction to the special issue Preface. In: Journal of Molecular Spectroscopy, Vol. 326, 2016,s. 1-4 - SCI ; SCOPUS
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- ADC17 Vasilchenko, S. (13%) - Konefal, M. (13%) - Mondelain, Didier (13%) - Kassi, Samir (12%) - Čermák, Peter [UKOMFKEF] (13%) - Tashkun, Serguei (12%) - Perevalov, Valery (12%) - Campargue, Alain (12%): The CO₂ absorption spectrum in the 2.3 micro mtransparency window by high sensitivity CRDS: (I) Rovibrational lines
Lit. 24 zázň., 7 obr., 2 tab.
In: Journal of Quantitative Spectroscopy and Radiative Transfer. - Vol. 184 (2016), s. 233-240. - ISSN 0022-4073
Registrované v: vos
Registrované v: scopus
Indikátor časopisu:
IF (JCR) 2016=2,419
Ohlasy (1):
[o1] 2017 Huang, X. - Schwenke, D. W. - Freedman, R. S. - Lee, T. J.: Ames-2016 line lists for 13 isotopologues of CO₂: Updates, consistency, and remaining issues. In: Journal of Quantitative Spectroscopy & Radiative Transfer, Vol. 203, 2017,s. 224-241 - SCI ; SCOPUS
- ADC18 Vasilchenko, S. (11%) - Mondelain, Didier (11%) - Kassi, Samir (11%) - Čermák, Peter [UKOMFKEF] (12%) - Chomet, Baptiste (11%) - Garnache, Arnaud (11%) - Denet, Stéphane (11%) - Lecocq, Vincent (11%) - Campargue, Alain (11%): The HD spectrum near 2.3 μm by CRDS-VECSEL: Electric quadrupole transition and collision-induced absorption
Lit. 51 zázň., 7 obr., 1 tab.
In: Journal of Molecular Spectroscopy. - Vol. 326 (2016), s. 9-16. - ISSN 0022-2852
Registrované v: vos
Registrované v: scopus
Indikátor časopisu:
IF (JCR) 2016=1,618
Ohlasy (1):
[o1] 2016 Jacquinet-Husson, N. - Flaud, J. M. - Gamache, R. R. - Predoi-Cross, A. - Vander Auwera, J.: New visions of spectroscopic databases: An introduction to the special issue Preface. In: Journal of Molecular Spectroscopy, Vol. 326, 2016,s. 1-4 - SCI ; SCOPUS
- ADC19 Annušová, Adriana [UKOMFKEF] (20%) - Čermák, Peter [UKOMFKEF] (20%) - Rakovský, Jozef (20%) - Martišoviš, Viktor [UKOMFKAFZM] (20%) - Veis, Pavel [UKOMFKEF] (20%): Monitoring active species in an atmospheric pressure dielectric-barrier discharge: Observation of the Herman-infrared system
Lit. 32 zázň.
In: Contributions to Plasma Physics. - Vol. 57, No. 2 (2017), s. 67-75. - ISSN 0863-1042
Registrované v: vos

Registrované v: scopus

ADC20 Campargue, Alain (12%) - Mikhailenko, Semen N. (11%) - Vasilchenko, S. (11%) - Reynaud, C. (11%) - Beguier, S. (11%) - Čermák, Peter [UKOMFKEF] (11%) - Mondelain, Didier (11%) - Kassi, Samir (11%) - Romanini, Daniele (11%): The absorption spectrum of water vapor in the 2.2 μm transparency window: High sensitivity measurements and spectroscopic database

Lit. 62 zázň., 9 obr., 4 tab.

In: Journal of Quantitative Spectroscopy and Radiative Transfer. - Vol. 189 (2017), s. 407-416. - ISSN 0022-4073

Registrované v: wos

Ohlasy (1):

[o1] 2018 Tennyson, J. - Yurchenko, S. N.: The ExoMol Atlas of Molecular Opacities. In: Atoms, Vol. 6, No. 2, 2018, Art. No. 26 - SCI ; SCOPUS

ADC21 Čermák, Peter [UKOMFKEF] (20%) - Vasilchenko, S. (20%) - Mondelain, Didier (20%) - Kassi, Samir (20%) - Campargue, Alain (20%): First laboratory detection of an absorption line of the first overtone electric quadrupolar band of N-2 by CRDS near 2.2 μm

Lit. 18 zázň., 5 obr.

In: Chemical Physics Letters. - Vol. 668 (2017), s. 90-94. - ISSN 0009-2614

Registrované v: wos

Registrované v: scopus

ADC22 Hovorka, Juraj [UKOMFKEFd] (33%) - Čermák, Peter [UKOMFKEF] (34%) - Veis, Pavel [UKOMFKEF] (33%): Optimization of data retrieval process for spectroscopic CO₂ isotopologue ratio measurements

Lit. 23 zázň.

In: Laser Physics. - Vol. 27, No. 5 (2017), Art. No. 055701, s. 1-5. - ISSN 1054-660X

Registrované v: wos

Registrované v: scopus

ADC23 Mondelain, Didier (20%) - Campargue, Alain (20%) - Čermák, Peter [UKOMFKEF] (20%) - Gamache, R. R. (10%) - Kassi, Samir (10%) - Tashkun, Serguei (10%) - Tran, H. (10%): The CO₂ absorption continuum by high pressure CRDS in the 1.74 μm window

Lit. 33 zázň.

In: Journal of Quantitative Spectroscopy and Radiative Transfer. - Vol. 203, Spec. Issue (2017), s. 530-537. - ISSN 0022-4073

Registrované v: wos

ADC24 Mondelain, Didier (20%) - Vasilchenko, S. (20%) - Čermák, Peter [UKOMFKEF] (20%) - Kassi, Samir (20%) - Campargue, Alain (20%): The CO₂ absorption spectrum in the 2.3 μm transparency window by high sensitivity CRDS: (II) Self-absorption continuum

Lit. 32 zázň., 5 obr.

In: Journal of Quantitative Spectroscopy and Radiative Transfer. - Vol. 187 (2017), s. 38-43. - ISSN 0022-4073

Registrované v: wos

Ohlasy (1):

[o1] 2018 Limaye, S. S. - Grassi, D. - Mahieux, A. - Migliorini, A. - Tellmann, S. - Titov, D.: Venus Atmospheric Thermal Structure and Radiative Balance. In: Space Science Reviews, Vol. 214, No. 5, 2018, Art. No. UNSP 102 - SCI

ADC25 Čermák, Peter [UKOMFKEF] (20%) - Karlovets, Ekaterina V. (16%) - Mondelain, Didier (16%) - Kassi, Samir (16%) - Perevalov, Valery I. (16%) - Campargue, Alain (16%): High sensitivity CRDS of CO₂ in the 1.74 μm transparency window. A validation test for the spectroscopic databases

Lit.: 37 zázň.

In: Journal of Quantitative Spectroscopy & Radiative Transfer. - Roč. 207 (2018), s. 95-103. - ISSN (print) 0022-4073

Registrované v: wos

Registrované v: scopus

ADC26 Čermák, Peter [UKOMFKEF] (20%) - Anušová, Adriana (20%) - Rakovský, Jozef (20%) - Martišoviš, Viktor (20%) - Veis, Pavel [UKOMFKEF] (20%): Untangling the Herman-infrared spectra of nitrogen atmospheric-pressure dielectric-barrier discharge

Lit.: 44 záz.

In: Plasma Sources Science and Technology. - Roč. 27, č. 5 (2018), s. 1-12, Art. No. 055009. - ISSN (print) 0963-0252

ADC27 Karlovets, Ekaterina V. (15%) - Čermák, Peter [UKOMFKEF] (15%) - Mondelain, Didier (14%) - Kassi, Samir (14%) - Campargue, Alain (14%) - Tashkun, Serguei A. (14%) - Perevalov, Valery I. (14%): Analysis and theoretical modeling of the O-18 enriched carbon dioxide spectrum by CRDS near 1.74 μm

Lit.: 39 záz.

In: Journal of Quantitative Spectroscopy & Radiative Transfer. - Roč. 217 (2018), s. 73-85. - ISSN (print) 0022-4073

Registrované v: wos

Registrované v: scopus

AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách

AED01 Földes, Tomáš [UKOMFKEFd] (17%) - Foltin, Viktor [UKOMFKEF] (16,6%) - Čermák, Peter [UKOMFKEF] (16,6%) - Veis, Pavel [UKOMFKEF] (16,6%) - Lukáč, Peter [UKOMFKEFs] (16,6%) - Macko, Peter [UKOMFKEF] (16,6%): Cavity Ring-Down Spectrometer-new highly sensitive detection technique at Comenius University in Bratislava

Lit. 21 záz., 10 obr.

In: Acta Physica Universitatis Comenianae-New Series, Vol. 46-47, No. 1&2 (2005-2006). - Bratislava : Comenius University Press, [2007]. - S. 53-64. - ISBN 978-80-223-2328-4

AED02 Foltin, Viktor [UKOMFKEF] (17%) - Jašík, Juraj [UKOMFKEF] (16,6%) - Varga, Juraj [UKOMFKEFd] (16,6%) - Čermák, Peter [UKOMFKEF] (16,6%) - Macko, Peter [UKOMFKEF] (16,6%) - Veis, Pavel [UKOMFKEF] (16,6%): Study of N₂ plasma generated by RF discharge. Nitrogen-first negative and second positive system investigation

Lit. 22 záz., 4 obr.

In: Acta Physica Universitatis Comenianae-New Series, Vol. 46-47, No. 1&2 (2005-2006). - Bratislava : Comenius University Press, [2007]. - S. 65-72. - ISBN 978-80-223-2328-4

AFA Publikované pozvané príspevky na zahraničných vedeckých konferenciách

AFA01 Földes, Tomáš [UKOMFKEFd] (20%) - Végő, Karol [UKOMFKEFd] (20%) - Čermák, Peter [UKOMFKEF] (20%) - Veis, Pavel [UKOMFKEF] (20%) - Macko, Peter [UKOMFKEF] (20%): Cavity ring-down spectroscopy using telecom diode lasers

Recenzované

Lit. 50 záz., 2 obr.

In: 16th Polish-Slovak-Czech Optical Conference on Wave and Quantum Aspects of Contemporary Optics. - Bellingham : SPIE, 2008. - Art. No. 714107 [10 s.]. - ISBN 978-0-8194738-3-7

[Wave and Quantum Aspects of Contemporary Optics 2008 : Polish-Slovak-Czech Optical Conference. 16th, Polanica Zdrój, 8.-12.9.2008]

POZNÁMKA:

Vyšlo aj ako abstrakt - 16th Czech-Polish-Slovak Optical Conference on Wave and Quantum Aspects of Contemporary Optics. - Wroclaw : Wroclaw University of Technology, 2008. - S. 110

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 Čermák, Peter [UKOMFKEF] (20%) - Varga, Juraj [UKOMFKEFd] (20%) - Macko, Peter [UKOMFKEF]

- (20%) - Martišovits, Viktor [UKOMFKAFZM] (20%) - Veis, Pavel [UKOMFKEF] (20%): Study of nitrogen molecular systems observed in NIR spectra in DBD at near and over atmospheric pressure
 Popis urobený 12.2.2008
 Lit. 18 zázň., 7 obr.
 In: 28th International Conference on Phenomena in Ionized Gases [elektronický zdroj]. - Prague : Institute of Plasma Physics AS CR, 2007. - S. 2025-2028 [online]. - ISBN 978-80-87026-01-4
 [ICPIG 2007 : International Conference on Phenomena in Ionized Gases. 28th, Prague, 15.-20.7.2007]
 Registrované v: URL zdrojového dokumentu
 Ohlasy (1):
 [o1] 2011 Sewraj, N. - Merbahi, N. - Gardou, J. P. - Akerreta, P. R. - Marchal, F.: Electric and spectroscopic analysis of a pure nitrogen mono-filamentary dielectric barrier discharge (MF-DBD) at 760 Torr. In: Journal of Physics D: Applied Physics, Vol. 44, No. 14, 2011, Art. No. 145201 - SCI ; SCOPUS
- AFC02 Čermák, Peter [UKOMFKEF] (20%) - Varga, Juraj [UKOMFKEFd] (20%) - Macko, Peter [UKOMFKEF] (20%) - Martišovits, Viktor [UKOMFKAFZM] (20%) - Veis, Pavel [UKOMFKEF] (20%): Study of nitrogen dielectric barrier discharge at near and over atmospheric pressure by optical emission spectroscopy
 Recenzované
 Lit. 21 zázň.
 In: 16th Annual Conference of Doctoral Students WDS '07, Part 2 : Physics of Plasmas and Ionized Media. - Praha : Matfyzpress, 2007. - S. 101-105. - ISBN 978-80-7378-024-1
 [WDS 2007 : Week of Doctoral Students : Annual Conference of Doctoral Students. 16th, Praha, 5.-8.6.2007]
 Ohlasy (2):
 [o3] 2010 Rodriguez Akerreta, P.: Etude Spectroscopiques et Cinétiques des états singulets Metastables (α 1 π g, α 1 Σ g⁺ et ω 1 Δ g) de l'azote moléculaire. Toulouse : l'Université P. Sabatier, 2010, S. 174
 [o1] 2011 Sewraj, N. - Merbahi, N. - Gardou, J. P. - Akerreta, P. R. - Marchal, F.: Electric and spectroscopic analysis of a pure nitrogen mono-filamentary dielectric barrier discharge (MF-DBD) at 760 Torr. In: Journal of Physics D, Vol. 44, No. 14, 2011, Art. No. 145201 - SCI ; SCOPUS
- AFC03 Földes, Tomáš [UKOMFKEFd] (25 %) - Čermák, Peter [UKOMFKEF] (25 %) - Veis, Pavel [UKOMFKEF] (25 %) - Macko, Peter [UKOMFKEF] (25 %): Cavity ring-down spectroscopy of singlet oxygen generated in microwave plasma
 Recenzované
 Lit. 9 zázň.
 In: 16th Annual Conference of Doctoral Students WDS '07, Part 2 : Physics of Plasmas and Ionized Media. - Praha : Matfyzpress, 2007. - S. 134-138. - ISBN 978-80-7378-024-1
 [WDS 2007 : Week of Doctoral Students : Annual Conference of Doctoral Students. 16th, Praha, 5.-8.6.2007]
 Ohlasy (2):
 [o1] 2011 Gordon, I. E. - Rothman, L. S. - Toon, G. C.: Revision of spectral parameters for the B- and γ -bands of oxygen and their validation against atmospheric spectra. In: Journal of Quantitative Spectroscopy and Radiative Transfer, Vol. 112, No. 14, 2011, s. 2310-2322 - SCI ; SCOPUS
 [o1] 2011 Zulfugarov, I. S. - Tovuu, A. - Kim, J. H. - Lee, C. H.: Detection of Reactive Oxygen Species in Higher Plants. In: Journal of Plant Biology, Vol. 54, No. 6, 2011, s. 351-357 - SCI ; SCOPUS
- AFC04 Čermák, Peter [UKOMFKEF] (20%) - Rakovský, Jozef [UKOMFKEFd] - Anušová, Adriana [UKOMFKEF] - Martišovits, Viktor [UKOMFKAFZM] (20%) - Veis, Pavel [UKOMFKEF] (20%): Time resolved broadband spectroscopy of nitrogen dielectric barrier discharge around atmospheric pressure
 Lit. 16 zázň., 5 obr.
 In: HAKONE XI: Contributed Papers, Vol. 1. - Toulouse : Université Paul Sabatier, 2008. - S. 163-167
 [HAKONE 2008 : High Pressure Low Temperature Plasma Chemistry : International Symposium. 11th, Oléron Island, 7.-12.9.2008]
- AFC05 Grolmusová, Zuzana [UKOMFKEFd] (11%) - Mináriková, L. - Rakovský, Jozef [UKOMFKEFd] (11%) - Čermák, Peter [UKOMFKEF] (11%) - Veis, Pavel [UKOMFKEF] (11%) - Kopáni, Martin [UKOLFULFB] - Jakubovský, Ján [UKOLF] - Babál, Pavel [UKOLFUPA] - Čaplovičová, Mária [UKOPRGLGs]: Elementar LIBS analysis of biological samples

Lit. 6 záz., 6 obr.

In: WDS 2009: Proceedings of Contributed Papers: Part III Physics of Plasmas and Ionized Media. - Prague : MATFYZPRES, 2009. - S. 189-192. - ISBN 978-80-7378-103-3

[WDS 2009 : Week of Doctoral Students : Annual Conference of Doctoral Students. 18th, Prague, 2.-5.6.2009]

URL: http://www.mff.cuni.cz/veda/konference/wds/contents/pdf09/WDS09_332_f4_Grolmusova.pdf

AFC06 Rakovský, Jozef [UKOMFKEFd] (16%) - Janík, Ján - Čermák, Peter [UKOMFKEF] (16%) - Horňáčková, Michaela [UKOMFKEF] - Rossi, Luciano [UKOMFKEF] (16%) - Veis, Pavel [UKOMFKEF] (16%): LIBS analysis of deposited diamond

Lit. 7 záz., 6 obr.

In: WDS 2009: Proceedings of Contributed Papers: Part II Physics of Plasmas and Ionized Media. - Prague : MATFYZPRES, 2009. - S. 111-114. - ISBN 978-80-7378-102-6

[WDS 2009 : Week of Doctoral Students : Annual Conference of Doctoral Students. 18th, Prague, 2.-5.6.2009]

URL: http://www.mff.cuni.cz/veda/konference/wds/contents/pdf09/WDS09_218_f2_Rakovsky.pdf

AFC07 Plavčan, Jozef [UKOMFKEFs] (100%) - Grolmusová, Zuzana [UKOMFKEFd] (20%) - Rakovský, Jozef [UKOMFKEFd] (20%) - Čermák, Peter [UKOMFKEF] (20%) - Veis, Pavel [UKOMFKEF] (20%): Determination of Stark broadening parameters for O, N from H alpha using laser induced breakdown spectroscopy

Recenzované

Lit. 6 záz., 5 obr., 1 tab.

In: WDS 2010: Proceedings of Contributed Papers: Part II Physics of Plasmas and Ionized Media. - Prague : MATFYZPRES, 2010. - S. 101-104. - ISBN 978-80-7378-140-8

[WDS 2010 : Week of Doctoral Students : Annual Conference of Doctoral Students. 19th, Prague, 1.-4.6.2010]

Ohlasy (1):

[o1] 2014 Janda, M. - Martišoviš, V. - Hensel, K. - Dvonč, L. - Machala, Z.: Measurement of the electron density in transient spark discharge. In: Plasma Sources Science and Technology, Vol. 23, No. 6, 2014, Art. No. 065016 - SCI ; SCOPUS

AFC08 Garnache, Arnaud (10%) - Laurain, A. (10%) - Myara, Mikhael (10%) - Pérez, J. P. (10%) - Cerutti, Laurent (10%) - Michon, A. (10%) - Beaudoin, G. (10%) - Sagnes, Isabelle (10%) - Čermák, Peter [UKOMFKEF] (10%) - Romanini, Daniele (10%): Design and properties of high-power highly coherent single-frequency VECSEL emitting in the near- to mid-IR for photonic applications

Recenzované

Lit. 18 záz., 14 obr.

In: Vertical External Cavity Surface Emitting Lasers : Conference (VeCSELs 2011). - Bellingham : SPIE, 2011. - Art. No. 791914, S. 1-11. - ISBN 978-08-19484-56-7

[VECSELs 2011 : Vertical External Cavity Surface Emitting Lasers : Conference. San Francisco, 24.-25.1.2011]

Ohlasy (6):

[o1] 2012 Tournie, E. - Baranov, A. N.: Mid-Infrared Semiconductor Lasers. A Review. In: Advances in Semiconductor Lasers : Semiconductors and Semimetals, Vol. 86. San Diego : Elsevier, 2012, S. 183-226 - BKCI-S ; SCOPUS

[o1] 2013 Leinonen, T. - Kantola, E. - Ranta, S. - Tavast, M. - Korpijarvi, V. M. - Guina, M.: High Power 1100-1200 nm Semiconductor Disk Lasers. In: Lasers and Electro-Optics Pacific Rim (CLEO-PR). New York : IEEE, 2013, Art. No. 6600299 - SCOPUS

[o1] 2016 Paboeuf, D. - Hastie, J. E.: Tunable narrow linewidth AlGaInP semiconductor disk laser for Sr atom cooling applications. In: Applied Optics, Vol. 55, No. 19, 2016, s. 4980-4984 - SCI ; SCOPUS

[o1] 2017 Guina, M. - Rantamaki, A. - Harkonen, A.: Optically pumped VECSELs: review of technology and progress. In: Journal of Physics D-Applied Physics, Vol. 50, No. 38, 2017, Art. No. 383001 - SCI ; SCOPUS

[o1] 2017 Santos, I. P. - van der Lee, A. - Gu, X. - Caspers, P. J. - Schut, T. C. B. - van Doorn, R. - Hegt, V. N. - Koljenovic, S. - Puppels, G. J.: Novel VECSEL for short-wave infrared Raman spectroscopy applications. In: Journal of Raman Spectroscopy, Vol. 48, No. 6, 2017, s. 872-877 - SCI ; SCOPUS

[o1] 2018 Head, C. R. - Paboeuf, D. - Ortega, T. - Lubeight, W. - Bialkowski, B. - Lin, J. - Hempler, N. - Maker, G. T. - Malcolm, G. P. A.: Commercial mode-locked vertical external cavity surface emitting lasers. In:

Vertical External Cavity Surface Emitting Lasers (VECSELs) 2018 : Proceedings of SPIE ; Vol. 10515.
Bellingham : SPIE, 2018, Art. No. 105150S - SCOPUS

AFC09 Rakovský, Jozef [UKOMFKEFd] (20%) - Krištof, Jaroslav [UKOMFKEF] (20%) - Čermák, Peter [UKOMFKEF] (20%) - Kociánová, Mária [UKOMFKEFd] (20%) - Veis, Pavel [UKOMFKEF] (10%) - Musset, Oliver (10%): Measurement of echelle spectrometer spectral response in UV
Lit. 9 záz. n.

In: WDS 2011: Proceedings of Contributed Papers: Part II Physics of Plasmas and Ionized Media. - Prague : MATFYZPRES, 2011. - S. 257-262. - ISBN 978-80-7378-185-9
[WDS 2011 : Week of Doctoral Students : Annual Conference of Doctoral Students. 20th, Prague, 31.5.-3.6.2011]

AFD Publikované príspevky na domácich vedeckých konferenciách

AFD01 Anušová, Adriana [UKOMFKEF] (20%) - Čermák, Peter [UKOMFKEF] (20%) - Rakovský, Jozef [UKOMFKEFd] (20%) - Martišovič, Viktor [UKOMFKAFZM] (20%) - Veis, Pavel [UKOMFKEF] (20%): Time resolved broadband spectroscopy of DBD operating from homogenous to filamentary regime in pure N₂ with O₂ traces

Recenzované

Lit. 15 záz. n., 8 obr.

In: HAKONE XII. - Bratislava : FMFI UK, 2010. - S. 202-206. - ISBN 978-80-89186-72-3

[HAKONE 2010 : High Pressure Low Temperature Plasma Chemistry : International Symposium. 12th, Trenčianske Teplice, 12.-17.9.2010]

AFD02 Čermák, Peter [UKOMFKEF] (14 %) - Földes, Tomáš [UKOMFKEFd] (14 %) - Krištof, Jaroslav [UKOMFKEF] (14 %) - Rakovský, Jozef [UKOMFKEFd] (14 %) - Grolmusová, Zuzana [UKOMFKEFd] (14 %) - Veis, Pavel [UKOMFKEF] (14 %) - Macko, Peter [UKOMFKEF] (14 %): High resolution and high sensitivity cavity ring-down spectroscopy

Lit. 15 záz. n.

In: Contributed Papers of the 5th Seminar on New Trends in Plasma Physics and Solid State Physics. - Bratislava : Knižničné a edičné centrum FMFI UK, 2010. - S. 11-17. - ISBN 978-80-89186-62-4

[New Trends in Plasma Physics and Solid State Physics 2009 : Seminar. 5th, Dol'any, 4.10.2009]

Ohlasy (1):

[o1] 2013 Tsujino, M. - Hokazono, H. - Chen, J. - Hamamoto, K.: Optical amplifier assisted cavity ring down spectroscopy (CRDS) method for compact infrared sensing. In: Technical Digest of the 18th Microoptics Conference, MOC 2013. New York : IEEE, 2013, Art. No. 6715137 - CPCI-S ; SCOPUS

AFD03 Plavčan, Jozef [UKOMFKEFs] (12%) - Grolmusová, Zuzana [UKOMFKEFd] (12 %) - Čermák, Peter [UKOMFKEF] (12%) - Jašík, Juraj [UKOMFKEF] (12%) - Rakovský, Jozef [UKOMFKEFd] (12%) - Vojtek, Pavel [UKOMFKEFs] (12%) - Zábudlá, Zuzana [UKOMFKEF] (12%) - Veis, Pavel [UKOMFKEF] (12%): Diagnostics of laser induced breakdown in argon at atmospheric pressure

Lit. 7 záz. n.

In: Contributed Papers of the 5th Seminar on New Trends in Plasma Physics and Solid State Physics. - Bratislava : Knižničné a edičné centrum FMFI UK, 2010. - S. 45-50. - ISBN 978-80-89186-62-4

[New Trends in Plasma Physics and Solid State Physics 2009 : Seminar. 5th, Dol'any, 4.10.2009]

AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

AFE01 Čermák, Peter [UKOMFKEF] (20%) - Cacciani, Patrice (20%) - Veis, Pavel [UKOMFKEF] (20%) - Romanini, Daniele (20%) - Garnache, Arnaud (20%): High sensitivity spectroscopy with the 2.3 micro m VECSEL

Lit. 3 záz. n., 1 obr.

In: Vertical External Cavity Surface Emitting Lasers : European Workshop (VeCSELs 2012). - Montpellier : Université Montpellier 2, 2012. - nestr.

[VeCSELs 2012 : Vertical External Cavity Surface Emitting Lasers : European Workshop. 1st, Montpellier,

17.-18.10.2012]

AFH Abstrakty príspevkov z domácich vedeckých konferencií

AFH01 Jašík, Juraj [UKOMFKEF] (16%) - Földes, Tomáš [UKOMFKEFd] (16%) - Čermák, Peter [UKOMFKEF] (16%) - Plavčan, Jozef [UKOMFKEFs] (16%) - Macko, Peter [UKOMFKEF] (16%) - Veis, Pavel [UKOMFKEF] (16%): High sensitivity spectroscopy using cavity ring-down spectroscopy and laser induced breakdown spectroscopy for trace detection
In: 19th Slovak-Czech Spectroscopic Conference. Book of Abstracts. - Bratislava : Comenius University, 2008. - S. 72. - ISBN 978-80-220-2557-8
[SCSC 2008 : Slovak-Czech Spectroscopic Conference. 19th, Častá-Papiernička, 12.-16.10.2008]

AFH02 Čermák, Peter [UKOMFKEF] (34%) - Hovorka, Juraj [UKOMFKEFd] (33%) - Veis, Pavel [UKOMFKEF] (33%): Využitie vysokocitlivých metód laserovej absorpčnej spektroskopie pri určovaní izotopového zloženia plynov v životnom prostredí
In: Analytika v geológii a v životnom prostredí 2013. - Bratislava : Štátny geologický ústav Dionýza Štúra, 2013. - S. 205. - ISBN 978-80-89343-87-4
[Analytika v geológii a v životnom prostredí 2013. Spišská Nová Ves, 13.-15. 11. 2013]

AFL Postery z domácich konferencií

AFL01 Földes, Tomáš [UKOMFKEFd] - Čermák, Peter [UKOMFKEF] - Macko, Martin [UKOMFKId] - Foltin, Viktor [UKOMFKEF] - Veis, Pavel [UKOMFKEF] - Macko, Peter [UKOMFKEF]: Cavity ring-down spectroscopy of singlet oxygen generated in microwave plasma
Lit. 3 záz., 2 obr.
In: SAPP : 16th Symposium on Application of Plasma Processes. - Bratislava : FMFI UK, 2007. - S. 161-162. - ISBN 978-80-89186-13-6
[SAPP 2007 : Symposium on Applications of Plasma Processes. 16th, Podbanské, 20.-21.1.2007]
[Research of Plasma Physics and Applications in Visegrad Countries 2007 : Workshop. Podbanské, 22.-25.1.2007]

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

BFA01 Cacciani, Patrice (4%) - Čermák, Peter [UKOMFKEF] (90%) - Cosléou, Jean (3%) - Khelkhal, Mohamed (3%): Spectroscopy of ammonia in the range 6622 to 6805 cm⁻¹: using temperature dependence towards a complete list of lower state energy transitions
Popis urobený 27.3.2014
Lit. 1 záz.
In: High Resolution Molecular Spectroscopy 2013 [elektronický zdroj]. - Budapest : University of Eötvös Lorand, 2013. - Art. No. J17, s. 1 [online]
[HRMS Colloquium 2013 : High Resolution Molecular Spectroscopy : Colloquium. 23rd, Budapest, 25.-30.8.2013]
URL: <http://lmsd.chem.elte.hu/hrms/abstracts/J17.pdf>
Ohlasy (1):
[o1] 2014 Foldes, T. - Golebiowski, D. - Herman, M. - Softley, T. P. - Di Lonardo, G. - Fusina, L.: Low-temperature high-resolution absorption spectrum of (NH₃)-N-14 in the nu(1) + nu(3) band region (1.51 mu m). In: Molecular Physics, Vol.112, No. 18, 2014, s. 2407-2418 - SCI ; SCOPUS

BFA02 Čermák, Peter [UKOMFKEF] (30%) - Hovorka, Juraj [UKOMFKEFd] (30%) - Veis, Pavel [UKOMFKEF] (30%) - Cacciani, Patrice (3%) - Cosléou, Jean (3%) - El Romh, J. (2%) - Khelkhal, Mohamed (2%): Laser absorption spectroscopy of methane at 2.3 micrometers
Popis urobený 27.3.2014
Lit. záz.
In: High Resolution Molecular Spectroscopy 2013 [elektronický zdroj]. - Budapest : University of Eötvös Lorand, 2013. - Art. No. J19, s. 1 [online]

[HRMS Colloquium 2013 : High Resolution Molecular Spectroscopy : Colloquium. 23rd, Budapest, 25.-30.8.2013]
URL: <http://lmsd.chem.elte.hu/hrms/abstracts/J19.pdf>

DAI Dizertačné a habilitačné práce

- DAI01 Čermák, Peter [UKOMFKEF] (100%) : High-sensitivity optical spectroscopy of plasma and gases. - Bratislava : [s.n.], 2010. - 120 s.
Doktorandská dizertačná práca (PhD.) - Univerzita Komenského, Bratislava, 2010
Lit. 92 záz. n.
Ohlasy (4):
[o1] 2011 Didriche, K. - Lauzin, C. - Foeldes, T. - Golebiowski, D. - Herman, M. - Leforestier, C.: High resolution overtone spectroscopy of the acetylene van der Waals dimer, ((C₂H₂)-C-12)(2). In: Physical Chemistry Chemical Physics, Vol. 13, No. 31, 2011, s. 14010-14018 - SCI
[o1] 2012 Didriche, K. - Foldes, T. - Lauzin, C. - Golebiowski, D. - Lievin, J. - Herman, M.: Experimental 2CH excitation in acetylene-containing van der Waals complexes. In: Molecular Physics, Vol. 110, No. 21-22, Sp. Iss., 2012, s. 2781-2796- SCI
[o1] 2015 Golebiowski, D. - Foldes, T. - Vanfleteren, T. - Herman, M. - Perrin, A.: Complementary cavity-enhanced spectrometers to investigate the OH plus CH combination band in trans-formic acid. In: Journal of Chemical Physics, Vol. 143, No.1, 2015, Art. No. 014201 - SCI
[o1] 2016 Herman, M. - Foldes, T. - Didriche, K. - Lauzin, C. - Vanfleteren, T.: Overtone spectroscopy of molecular complexes containing small polyatomic molecules. In: International Review in Physical Chemistry, Vol. 35, No. 2, 2016, s.243-295 - SCI

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

- EDJ01 Veis, Pavel [UKOMFKEF] - Macko, Peter [UKOMFKEF] - Foltin, Viktor [UKOMFKEF] - Jašík, Juraj [UKOMFKEF] - Varga, Juraj [UKOMFKEF] - Kőtelesová, Z. - Krištof, Jaroslav [UKOMFKEF] - Guláš, Michal - Földes, Tomáš [UKOMFKEF] - Kyliánová, A. - Čermák, Peter [UKOMFKEF]: Optická spektroskopia plynov a plazmy
In: Československý časopis pro fyziku. - Sv. 55, č. 6 (2005), s. 509-510. - ISSN 0009-0700

Štatistika kategórií (Záznamov spolu: 51):

- AAA Vedecké monografie vydané v zahraničných vydavateľstvách (1)
- ADC Vedecké práce v zahraničných karentovaných časopisoch (27)
- AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách (2)
- AFA Publikované pozvané príspevky na zahraničných vedeckých konferenciách (1)
- AFC Publikované príspevky na zahraničných vedeckých konferenciách (9)
- AFD Publikované príspevky na domácich vedeckých konferenciách (3)
- AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií (1)
- AFH Abstrakty príspevkov z domácich vedeckých konferencií (2)
- AFL Postery z domácich konferencií (1)
- BFA Abstrakty odborných prác zo zahraničných podujatí (konferencie, ...) (2)
- DAI Dizertačné a habilitačné práce (1)
- EDJ Prehľadové práce, odborné práce, preklady noriem; odborné preklady v časopisoch, zborníkoch (1)

Štatistika ohlasov (166):

- [o1] Citácie v zahraničných publikáciách registrované v citačných indexoch (165)
- [o3] Citácie v zahraničných publikáciách neregistrované v citačných indexoch (1)

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V Bratislave, 18. 2. 2019

Mgr. Peter Čermák, PhD.