UNIVERZITA KOMENSKÉHO
FAKULTA MATEMATIKY, FYZIKY A INFORMATIKY

Zoznam publikačnej činnosti

doc. RNDr. Zdenko Machala, PhD.

ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách

ABA01 Janda, Mário [UKOMFKAFZM] (40%) - Machala, Zdenko [UKOMFKAFZM] (30%) - Joshi, Ravindra P. (10%) - Krasnoperov, Lev (10%) - Thagard, Selma Mededovic (10%): Electrical discharges
Lit. 266 zázn.
In: Encyclopedia of Physical Organic Chemistry. - Roboken : John Wiley & Sons, 2017. - S. 2957-3010 [5,00 AH]. - ISBN 978-1-118-47045-9
Ohlasy (1):
[o1] 2018 Wang, Q. J. - Li, Y. F. - Sun, D. W. - Zhu, Z. W.: Enhancing food processing by pulsed and high voltage electric fields: Principles and applications. In: Critical Reviews In Food Science And Nutrition, Vol. 58, No. 13, 2018, s.2285-2298 - SCI ; SCOPUS

ACC Kapitoly vo vysokoškolských učebniciach vydané v zahraničných vydavateľstvách

ACC01 Machala, Zdenko [UKOMFKAFZM] (35%) - Pai, David Z. (25%) - Janda, Mário [UKOMFKAFZM] (25%) - Laux, Christophe O. (15%): Atmospheric pressure nanosecond pulsed discharge plasmas
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ADC Vedecké práce v zahraničných karentovaných časopisoch

ADC01 Machala, Zdenko [UKOMFKAFZM] - Morvová, Marcela [UKOMFKAFZM] - Marode, Emmanuel - Morva, Imrich [UKOMFKAFZM]: Removal of cyclohexanone in transition electric discharges at atmospheric pressure
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ADC02 Machala, Zdenko [UKOMFKAFZM] (40%) - Marode, Emmanuel (25%) - Morvová, Marcela [UKOMFKAFZM] (25%) - Lukáč, Peter [UKOMFKEFs] (10%): DC glow discharge in atmospheric air as a source for volatile organic compounds abatement
Rozšírená práca s novšími výsledkami výskumu
Lit. 27 zázn., 17 obr.
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ADC10 Leštinská, Lenka [UKOMFKAFZMd] - Foltin, Viktor [UKOMFKEF] (20%) - Machala, Zdenko [UKOMFKAFZM] (30%): Atmospheric pressure nitrogen microwave plasma
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Lit. 5 zázn., 2 obr.
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Lit. 17 zázn.
In: The European Physical Journal - Applied Physics. - Vol. 47, No. 2 (2009), Art. No. 22813. - ISSN 1286-0042
Indikátor časopisu:
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ADC13 Machala, Zdenko [UKOMFKAFZM] (14%) - Jedlovský, Igor [UKOMFKJBd] (14%) - Chládeková, L. (12%) - Pongrác, Branislav [UKOMFKAFZMd] (12%) - Giertl, D. (12%) - Janda, Mário [UKOMFKAFZM] (12%) - Šikurová, Libuša [UKOMFKJFB] (12%) - Polčic, Peter[UKOPRCBI] (12%): DC discharges in atmospheric air for bio-decontamination - spectroscopic methods for mechanism identification
Lit. 34 zázn., 11 obr., 2 tab.
In: European Physical Journal D - Atomic, Molecular, Optical and Plasma Physics. - Vol. 54, No. 2 (2009), s. 195-204. - ISSN 1434-6060
Indikátor časopisu:
IF (JCR) 2009=1,420
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ADC15 Janda, Mário [UKOMFKAFZM] (60%) - Machala, Zdenko [UKOMFKAFZM] (40%): Imaging of transient spark in atmospheric air by fast iCCD camera
Lit. 5 zázn., 1 obr.
In: IEEE Transactions on Plasma Science. - Vol. 39, No. 11 (2011), s. 2246-2247. - ISSN 0093-3813
Indikátor časopisu:
IF (JCR) 2011=1,174
Ohlasy (12):
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ADC16 Janda, Mário [UKOMFKAFZM] (40%) - Martišovitš, Viktor [UKOMFKAFZM] (30%) - Machala, Zdenko [UKOMFKAFZM] (30%): Transient spark: a dc-driven repetitively pulsed discharge and its control by electric circuit parameters
Lit. 37 zázn. 16 obr.
In: Plasma Sources Science & Technology. - Vol. 20, No. 3, Spec. Iss. (2011), Art. No. 035015, s. 1-10. - ISSN 0963-0252

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IF (JCR) 2011=2,521
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ADC17 Kovaľová, Zuzana [UKOMFKAFZMd] (60%) - Machala, Zdenko [UKOMFKAFZM] (40%): Biodecontamination of plastic and dental surfaces with atmospheric pressure air DC discharges
Lit. 6 zázn., 1 obr.
In: IEEE Transactions on Plasma Science. - Vol. 39, No. 11 (2011), s. 2970-2971. - ISSN 0093-3813
Indikátor časopisu:
IF (JCR) 2011=1,174

ADC18 Leštinská, Lenka [UKOMFKAFZMd] (50%) - Martišovitš, Viktor [UKOMFKAFZM] (30%) - Machala, Zdenko [UKOMFKAFZM] (20%): Corona discharge as a temperature probe of atmospheric air microwave plasma jet
Lit. 16 zázn., 10+3 obr., 1 tab.
In: Journal of Quantitative Spectroscopy and Radiative Transfer. - Vol. 112, No. 18 (2011), s. 2779-2786. - ISSN 0022-4073
Indikátor časopisu:
IF (JCR) 2011=3,193
Ohlasy (7):
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Lit. 7 zázn., 1 obr.
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Lit. 56 zázn., 11 obr.
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Upravený príspevok z konferencie
Lit. 26 zázn., 8 obr.
In: The European Physical Journal - Applied Physics. - Vol. 61, No. 2 (2013), Art. No. 24306, s. 1-7. - ISSN 1286-0042
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Lit. 43 zázn., 11 obr.
In: Plasma Processes and Polymers. - Vol. 10, No. 7 (2013), s. 649-659. - ISSN 1612-8850
Indikátor časopisu:
IF (JCR) 2013=2,964
Ohlasy (162):
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Lit. 29 zázn.
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Indikátor časopisu:
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Gas and Water and Their AntibacterialEffects
Lit.: 103 zázn.
In: Plasma Chemistry and Plasma Processing. - Roč. 40, č. 3 (2020), s. 749-773. - ISSN (print) 0272-4324
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2019=2,178
Kvartil Q:
wos-jcr -- Q2 [Physics, applied] -- 2019

ADC33 Janda, Mário [UKOMFKAFZM] (50%) - Martišovitš, Viktor [UKOMFKAFZM] (20%) - Hensel, Karol [UKOMFKAFZM] (15%) - Machala, Zdenko [UKOMFKAFZM] (15%): Generation of antimicrobial NOx by atmospheric air transient spark discharge
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Lit. 60 zázn.
In: Bioelectrochemistry. - Vol. 112 (2016), s. 91-99. - ISSN 1567-5394
Registrované v: wos
Registrované v: scopus
Indikátor časopisu:
IF (JCR) 2016=3,346
Ohlasy (13):
[o1] 2016 Doria, A. - Figueira, F. - Lima, J. - Maciel, H. - Maciel, H. - Khouri, S. - Pessoa, R. - Pessoa, R.: Sterilization of candida albicans biofilms grown on polymers by atmospheric plasma: From plasma devices to biofilm analysis. In: Biofilms Characterization, Applications and Recent Advances, 2016, s. 225-273 - SCOPUS
[o1] 2017 Kuzminova, A. - Kretkova, T. - Kylian, O. - Hanus, J. - Khalakhan, I. - Prukner, V. - Dolezalova, E. - Simek, M. - Biederman, H.: Etching of polymers, proteins and bacterial spores by atmospheric pressure DBD plasma in air. In: Journal of Physics D-Applied Physics, Vol. 50, No. 13, 2017, Art. No. 135201 - SCI ; SCOPUS
[o1] 2018 Sun, B. - Xin, Y. - Zhu, X. - Gao, Z. - Yan, Z. - Ohshima, T.: Effects of shock waves, ultraviolet light, and electric fields from pulsed discharges in water on inactivation of Escherichia coli. In: Bioelectrochemistry, Vol. 120,2018, s. 112-119 - SCI ; SCOPUS
[o1] 2018 Smet, C. - Baka, M. - Dickenson, A. - Walsh, J. L. - Valdramidis, V. P. - Van Impe, J. F.: Antimicrobial efficacy of cold atmospheric plasma for different intrinsic and extrinsic parameters. In: Plasma Processes and Polymers, Vol.15, No. 2, 2018, Art. No. e1700048 - SCI ; SCOPUS
[o1] 2018 Wolfmeier, H. - Pletzer, D. - Mansour, S. C. - Hancock, R. E. W.: New perspectives in biofilm eradication. In: ACS Infectious Diseases, Vol. 4, No. 2, 2018, s. 93-106 - SCI ; SCOPUS

[o1] 2018 Xu, Z. - Cheng, C. - Shen, J. - Lan, Y. - Hu, S. - Han, W. - Chu, P. K.: In vitro antimicrobial effects and mechanisms of direct current air-liquid discharge plasma on planktonic Staphylococcus aureus and Escherichia coli in liquids.In: Bioelectrochemistry, Vol. 121, 2018, s. 125-134 - SCI ; SCOPUS
[o1] 2019 Kruszelnicki, J. - Lietz, A. M. - Kushner, M. J.: Atmospheric pressure plasma activation of water droplets. In: Journal of Physics D-Applied Physics, Vol. 52, No. 35, 2019, Art. No. 355207 - SCI ; SCOPUS
[o1] 2019 Mugica-Vidal, R. - Sainz-Garcia, E. - Alvarez-Ordonez, A. - Prieto, M. - Gonzalez-Raurich, M. - Lopez, M. - Lopez, M. - Rojo-Bezares, B. - Saenz, Y. - Alba-Elias, F.: Production of antibacterial coatings through atmospheric pressureplasma: a promising alternative for combatting biofilms in the food industry. In: Food and Bioprocess Technology, Vol. 12, No. 8, 2019, s. 1251-1263 - SCI ; SCOPUS
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[o1] 2020 Huang, M. - Zhuang, H. - Zhao, J. - Wang, J. - Yan, W. - Zhang, J.: Differences in cellular damages induced by dielectric barrier discharge plasma between Salmonella typhimurium and Staphylococcus aureus. In: Bioelectrochemistry,Vol. 132, 2020, Art. No. 107445 - SCI ; SCOPUS
[o1] 2020 Lazra, Y. - Dubrovin, I. - Multanen, V. - Bormashenko, E. - Bormashenko, Y. - Cahan, R.: Effects of atmospheric plasma corona discharges on soil bacteria viability. In: Microorganisms, Vol. 8, No. 5, 2020, Art. No. 704 - SCOPUS
[o3] 2016 Zabielska, J. - Tyfa, A. - Kunicka-Styczyńska, A.: Methods for eradication of the biofilms formed by opportunistic pathogens using novel techniques A review. In: Folia Biologica et Oecologica, Vol. 12, 2016, s. 35
[o3] 2017 Niemira, B. A.: Targeting Biofilms with Cold Plasma: New Approaches to a Persistent Problem. In: Food Safety Magazine, No. Biofilms June-July, 2017,https://www.foodsafetymagazine.com/magazine-archive1/junejuly-2017/targeting-biofilms-with-cold-plasma-new-approaches-to-a-persistent-problem/

ADC35 Pongrác, Branislav (35%) - Krčma, František (10%) - Dostál, Lukáš (10%) - Kim, Hyun-Hya (10%) - Homola, Tomáš (10%) - Machala, Zdenko [UKOMFKAFZM] (25%): Effects of corona space charge polarity and liquid phase ion mobility on the shape andvelocities of water jets in the spindle jet and precession modes of water electro-spray
Lit. 48 zázn.
In: Journal of Aerosol Science. - Vol. 101 (2016), s. 196-206. - ISSN 0021-8502
Registrované v: wos
Registrované v: scopus
Indikátor časopisu:
IF (JCR) 2016=2,042
Ohlasy (4):
[o1] 2018 Borra, J. P.: Review on water electro-sprays and applications of charged drops with focus on the corona-assisted cone-jet mode for High Efficiency Air Filtration by wet electro-scrubbing of aerosols. In: Journal of Aerosol Science,Vol. 125, 2018, s. 208-236 - SCI ; SCOPUS
[o1] 2018 Ganan-Calvo, A. M. - Lopez-Herrera, J. M. - Herrada, M. A. - Ramos, A. - Montanero, J. M.: Review on the physics of electrospray: From electrokinetics to the operating conditions of single and coaxial Taylor cone-jets, and ACelectrospray. In: Journal of Aerosol Science, Vol. 125, 2018, s. 32-56 - SCI ; SCOPUS
[o1] 2018 Jaworek, A. - Sobczyk, A. T. - Krupa, A.: Electrospray application to powder production and surface coating. In: Journal of Aerosol Science, Vol. 125, 2018, s. 57-92 - SCI ; SCOPUS
[o1] 2019 Guo, Y. - Li, S. - Wu, Z. - Zhu, K. - Han, Y. - Wang, N.: Interaction between electrospray using ionic liquid and simultaneous corona discharge under positive and negative polarity. In: Physics of Plasmas, Vol. 26, No. 7, 2019, Art.No. 073511 - SCI ; SCOPUS

ADC36 Tučeková, Zlata [UKOMFKEFd] (40%) - Kovaľová, Zuzana [UKOMFKAFZMd] (35%) - Zahoranová, Anna [UKOMFKEF] (10%) - Machala, Zdenko [UKOMFKAFZM] (10%) - Černák, Mirko [UKOMFKEF] (5%): Inactivation of Escherichia coli on PTFE surfaces by diffuse coplanarsurface barrier discharge
Lit. 35 zázn., 6 obr., 1 tab.
In: The European Physical Journal - Applied Physics. - Vol. 75, No. 2, Spec. Iss. (2016), Art. No. 24711, s. 1-6. - ISSN 1286-0042
[CESPC 2015 : Central European Symposium on Plasma Chemistry. 6th, Bressanone, 6.-10.9.2015]
Registrované v: wos
Registrované v: scopus

ADC37 Janda, Mário [UKOMFKAFZM] (40%) - Hoder, Tomáš (20%) - Sarani, Abdollah (10%) - Brandenburg, Ronny (10%) - Machala, Zdenko [UKOMFKAFZM] (20%): Cross-correlation spectroscopy study of the transient spark discharge in atmospheric pressure air
Lit. 58 zázn., 5 obr.
In: Plasma Sources Science & Technology. - Vol. 26, No. 5 (2017), Art. No. 55010, s. 1-8. - ISSN 0963-0252
Registrované v: wos
Registrované v: scopus
Ohlasy (6):

[o1] 2018 Li, S. - Medrano, J. A. - Hessel, V. - Gallucci, F.: Recent progress of plasma-assisted nitrogen fixation research: A review. In: Processes, Vol. 6, No. 12, 2018, Art. No. 248 - SCI ; SCOPUS
[o1] 2018 Pei, X. - Kredl, J. - Lu, X. - Kolb, J. F.: Discharge modes of atmospheric pressure DC plasma jets operated with air or nitrogen. In: Journal of Physics D-Applied Physics, Vol. 51, No. 38, 2018, Art. No. 384001 - SCI ; SCOPUS
[o1] 2018 Svarnas, P. - Gazeli, K. - Gkelios, A. - Amanatides, E. - Mataras, D.: On the reliable probing of discrete 'plasma bullet' propagation. In: Measurement Science and Technology, Vol. 29, No. 4, 2018, Art. No. 045016 - SCI ; SCOPUS
[o1] 2019 Shcherbanev, S. A. - Ding, C. - Starikovskaia, M. - Popov, N. A.: Filamentary nanosecond surface dielectric barrier discharge. Plasma properties in the filaments. In: Plasma Sources Science & Technology, Vol. 28, No. 6, 2019, Art.No. 065013 - SCI ; SCOPUS
[o1] 2019 Simek, M. - Cernak, M. - Kylian, O. - Foest, R. - Hegemann, D. - Martini, R.: White paper_on the future of plasma science for optics and glass. In: Plasma Processes and Polymers, Vol. 16, No. 1, 2019, Art. No. e1700250 - SCI ; SCOPUS
[o3] 2018 Orriere, T.: Confinement micrométrique des décharges pulsées nanosecondes dans l´air a pression atmosphérique et effets électro-aérodynamiques. Poitiers : Université de Poitiers, 2018, S. 206

ADC38 Janda, Mário [UKOMFKAFZM] (40%) - Martišovitš, Viktor [UKOMFKAFZM] (10%) - Buček, Andrej (10%) - Hensel, Karol [UKOMFKAFZM] (15%) - Machala, Zdenko [UKOMFKAFZM] (20%) - Molnár, M. (5%): Influence of repetition frequency on streamer-to-sparkbreakdown mechanism in transient spark discharge
Lit. 53 zázn.
In: Journal of Physics D - Applied Physics. - Vol. 50, No. 42 (2017), Art. No. 425207, s. 1-8. - ISSN 0022-3727
Registrované v: wos
Registrované v: scopus
Ohlasy (3):
[o1] 2019 Korolev, Y. D. - Nekhoroshev, V. O. - Frants, O. B. - Landl, N. V. - Suslov, A. I. - Bolotov, A. V.: Features of the current sustainment in a low-current discharge in airflow. In: Plasma Chemistry and Plasma Processing, Vol. 39, No.6, 2019, s. 1519-1532 - SCI ; SCOPUS
[o3] 2019 Uber, C.: Charakterisierung elektrischer Kontakt-Entladungen im Bereich niedriger Spannungen im Zündgrenz-Bereich von Wasserstoff-Luft-Gemisch. Ilmenau : Technischen Universität Ilmenau, 2019, S. 95
[o1] 2020 Huang, B. - Zhang, C. - Bai, H. - Zhang, S. - Ostrikov, K. K. - Shao, T.: Energy pooling mechanism for catalyst-free methane activation in nanosecond pulsed non-thermal plasmas. In: Chemical Engineering Journal, Vol. 396, 2020, Art.No. 125185 - SCOPUS

ADC39 Janda, Mário [UKOMFKAFZM] (60%) - Hensel, Karol [UKOMFKAFZM] (20%) - Machala, Zdenko [UKOMFKAFZM] (20%): Kinetic plasma chemistry model of pulsed transient spark discharge in air coupled with nanosecond time-resolved imaging and spectroscopy
Lit.: 60 zázn.
In: Journal of Physics D. - Roč. 51, č. 33 (2018), s. 1-10, Art. No. 334002. - ISSN (print) 0022-3727
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2018=2.829
Kvartil Q:
wos-jcr -- Q2 [Physics, applied] -- 2018
Ohlasy (5):
[o1] 2018 Simek, M. - Bonaventura, Z.: Non-equilibrium kinetics of the ground and excited states in N-2-O-2 under nanosecond discharge conditions: extended scheme and comparison with available experiments observations. In: Journal of PhysicsD-Applied Physics, Vol. 51, No. 50, 2018, Art. No. 504004 - SCI ; SCOPUS
[o1] 2019 Popov, N. - Babaeva, N. - Naidis, G.: Recent advances in the chemical kinetics of non-equilibrium plasmas Preface. In: Journal of Physics D-Applied Physics, Vol. 52, No. 16, 2019, Art. No. 160301 - SCI ; SCOPUS
[o1] 2019 Tachibana, K. - Nakamura, T.: Comparative study of discharge schemes for production rates and ratios of reactive oxygen and nitrogen species in plasma activated water. In: Journal of Physics D-Applied Physics, Vol. 52, No. 38, 2019,Art. No. 385202 - SCI ; SCOPUS
[o1] 2019 Wandell, R. J. - Wang, H. - Bulusu, R. K. M. - Gallan, R. O. - Locke, B. R.: Formation of nitrogen oxides by nanosecond pulsed plasma discharges in gas-liquid reactors. In: Plasma Chemistry and Plasma Processing, Vol. 39, No. 3, 2019, s. 643-666 - SCI ; SCOPUS
[o1] 2020 Seyfi, P. - Khademi, A. - Ghasemi, S. - Farhadizadeh, A. - Ghomi, H.: The effect of mixed electric field on characteristic of Ar-N-2 plasma jets for TiN surface treatment. In: Journal of Physics D-Applied Physics, Vol. 53, No. 12,Art. No. 125201 - SCI

ADC40 Machala, Zdenko [UKOMFKAFZM] (80%) - Graves, David B. (20%): Frugal biotech applications of low-temperature plasma
Lit.: 15 zázn.
In: Trends in Biotechnology : Plasma Biotechnology. - Roč. 36, č. 6 (2018), s. 579-581. - ISSN (print) 0167-7799
Registrované v: scopus

Registrované v: wos
Indikátor časopisu:
IF (JCR) 2018=13.747
Kvartil Q:
wos-jcr -- Q1 [Biotechnology & applied microbiology] -- 2018
Ohlasy (2):
[o1] 2019 Duan, J. - Gan, L. - Nie, L. - Sun, F. - Lu, X. - He, G.: On the penetration of reactive oxygen and nitrogen species generated by a plasma jet into and through mice skin with/without stratum corneum. In: Physics of Plasmas, Vol. 26,No. 4, 2019, Art. No. UNSP 043504 - SCI ; SCOPUS
[o1] 2018 Dickenson, A. - Britun, N. - Nikiforov, A. - Leys, C. - Hasan, M. I. - Walsh, J. L.: The generation and transport of reactive nitrogen species from a low temperature atmospheric pressure air plasma source. In: Physical ChemistryChemical Physics, Vol. 20, No. 45, 2018, s. 28499-28510 - SCI ; SCOPUS

ADC41 Polčic, Peter [KAUT] [UKOPRCBI] (25%) - Pakosová, Lucia [UKOLFUSV] (25%) - Chovančíková, Petra (25%) - Machala, Zdenko [UKOMFKAFZM] (25%): Reactive cold plasma particles generate oxidative stress in yeast but do not trigger apoptosis
Lit.: 34 zázn.
In: Canadian Journal of Microbiology. - Roč. 64, č. 6 (2018), s. 367-375. - ISSN (print) 0008-4166
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2018=1,550
Kvartil Q:
wos-jcr -- Q4 [Biotechnology & applied microbiology] -- 2018
wos-jcr -- Q4 [Microbiology] -- 2018
scimago-sjr -- Q2 [Medicine (miscellaneous)] -- 2018
Ohlasy (1):
[o1] 2019 Niedzwiedz, I. - Wasko, A. - Pawlat, J. - Polak-Berecka, M.: Polish Journal of Microbiology, Vol. 68, No. 2, 2019, s. 153-164 - SCI ; SCOPUS

ADC42 Tarabová, Barbora [UKOMFKAFZM] (35%) - Lukeš, Petr (20%) - Janda, Mário [UKOMFKAFZM] (15%) - Hensel, Karol [UKOMFKAFZM] (10%) - Šikurová, Libuša [UKOMFKJFB] (5%) - Machala, Zdenko [UKOMFKAFZM] (15%): Specificity of detection methods of nitrites andozone in aqueous solutions activated by air plasma
Lit.: 79 zázn.
In: Plasma Processes and Polymers. - Roč. 15, č. 6 (2018), s. 1-12, Art. No. 1800030. - ISSN (print) 1612-8850
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2018=3,173
Kvartil Q:
wos-jcr -- Q2 [Physics, applied] -- 2018
wos-jcr -- Q2 [Physics, condensed matter] -- 2018
wos-jcr -- Q1 [Physics, fluids & plasmas] -- 2018
wos-jcr -- Q1 [Polymer science] -- 2018
Ohlasy (12):
[o1] 2019 Bulusu, R. K. M. - Wandell, R. J. - Gallan, R. O. - Locke, B. R.: Nitric oxide scavenging of hydroxyl radicals in a nanosecond pulsed plasma discharge gas liquid reactor. In: Journal of Physics D-Applied Physics, Vol. 52, No. 50,2019, Art. No. 504002 - SCI ; SCOPUS
[o1] 2019 Guo, Y. - Li, S. - Wu, Z. - Zhu, K. - Han, Y. - Wang, N.: Interaction between electrospray using ionic liquid and simultaneous corona discharge under positive and negative polarity. In: Physics of Plasmas, Vol. 26, No. 7, 2019, Art.No. 073511 - SCI ; SCOPUS
[o1] 2018 Gorbanev, Y. - Privat-Maldonado, A. - Bogaerts, A.: Analysis of short-lived reactive species in plasma-air-water systems: The Dos and the Do Nots. In: Analytical Chemistry, Vol. 90, No. 22, 2018, s. 13151-13158 - SCI ; SCOPUS
[o3] 2019 Cheng, J. - Chen, Q. - Fridman, G. - Ji, H. F.: A colorimetric method for comparison of oxidative strength of DBD plasma. In: Sensors and Actuators Reports, Vol. 1, 2019, Art. No. 100001
[o1] 2019 Peverall, R. - Ritchie, G. A. D.: Spectroscopy techniques and the measurement of molecular radical densities in atmospheric pressure plasmas. In: Plasma Sources Science & Technology, Vol. 28, No. 7, 2019, Art. No. 073002 - SCI ;SCOPUS
[o1] 2019 Starek, A. - Pawlat, J. - Chudzik, B. - Kwiatkowski, M. - Terebun, P. - Sagan, A. - Andrejko, D.: Evaluation of selected microbial and physicochemical parameters of fresh tomato juice after cold atmospheric pressure plasma treatmentduring refrigerated storage. In: Scientific Reports, Vol. 9, 2019, Art. No. 8407 - SCI ; SCOPUS
[o1] 2019 Wandell, R. J. - Wang, H. - Bulusu, R. K. M. - Gallan, R. O. - Locke, B. R.: Formation of nitrogen oxides by nanosecond pulsed plasma discharges in gas-liquid reactors. In: Plasma Chemistry and Plasma Processing, Vol. 39, No. 3, 2019, s. 643-666 - SCI ; SCOPUS

[o1] 2019 Wardenier, N. - Gorbanev, Y. - Van Moer, I. - Nikiforov, A. - Van Hulle, S. W. H. - Surmont, P. - Lynen, F. - Leys, C. - Bogaerts, A. - Vanraes, P.: Removal of alachlor in water by non-thermal plasma: Reactive species and pathways inbatch and continuous process. In: Water Research, Vol. 161, 2019, s. 549-559 - SCI ; SCOPUS
[o1] 2020 Nastase, R. - Fourre, E. - Fanuel, M. - Falourd, X. - Capron, I.: Non thermal plasma in liquid media: Effect on inulin depolymerization and functionalization. In: Carbohydrate Polymers, Vol. 231, 2020, Art. No. 115704 - SCI ; SCOPUS
[o1] 2020 Yang, L. - Wang, X. - Zhu, D. - Zhang, Q. - Xi, T. - Liu, D. - Niu, J. - Huang, F. - Zhao, Y. - Qi, Z. - Zhao, Z.: Mechanism of amoxicillin degradation in water treated by atmospheric-pressure air microplasma. In: IEEE Transactionson Plasma Science, Vol. 48, No. 4, 2020, s. 953-960 - SCI ; SCOPUS
[o1] 2020 Zhou, R. W. - Zhou, R. S. - Wang, P. Y. - Xian, Y. B. - Mai-Prochnow, A. - Lu, X. P. - Cullen, P. J. - Ostrikov, K. - Bazaka, K.: Plasma-activated water: generation, origin of reactive species and biological applications. In: Journalof Physcics D - Applied Physics, Vol. 53, No. 30, 2020, Art. No. 303001 - SCI
[o3] 2019 Gorbanev, Y. - Bogaerts, A.: Chemical detection of short-lived species induced in aqueous media by atmospheric pressure plasma. In: Atmospheric Pressure Plasma : From Diagnostics to Applications. London : Intech Open, 2019, 19 s.

ADC43 Bauer, Georg (40%) - Sersenová, Dominika [UKOMFKAFZM] (20%) - Graves, David B. (20%) - Machala, Zdenko [UKOMFKAFZM] (20%): Cold atmospheric plasma and plasma-activated medium trigger RONS-based tumor cell apoptosis [elektronický dokument]
Lit.: 111 zázn.
In: Scientific reports [elektronický dokument]. - Roč. 9, č. 1 (2019), s. [1-28], Art. No. 14210 [online]. - ISSN (online) 2045-2322
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
SJR (SCOPUS) 2019=1,341
SNIP (SCOPUS) 2019=1,365
CiteScore (SCOPUS) 2019=7,20
IF (JCR) 2019=3,998
Kvartil Q:
wos-jcr -- Q1 [Multidisciplinary sciences] -- 2019
scimago-sjr -- Q1 [Multidisciplinary] -- 2019
Ohlasy (3):
[o1] 2019 Privat-Maldonado, A. - Bengtson, C. - Razzokov, J. - Smits, E. - Bogaerts, A.: Modifying the tumour microenvironment: Challenges and future perspectives for anticancer plasma treatments. In: Cancers, Vol. 11, No. 12, 2019, Art. No.1920 - SCI ; SCOPUS
[o1] 2020 Braný, D. - Dvorská, D. - Halašová, E. - Škovierová, H.: Cold atmospheric plasma: A powerful tool for modern medicine. In: International Journal of Molecular Sciences, Vol. 21, No. 8, 2020, Art. No. 2932 - SCOPUS
[o1] 2020 Sardella, E. - Mola, M. G. - Gristina, R. - Piccione, M. - Veronico, V. - De Bellis, M. - Cibelli, A. - Buttiglione, M. - Armenise, V. - Favia, P. - Nicchia, G. P.: A synergistic effect of reactive oxygen and reactive nitrogenspecies in plasma activated liquid media triggers astrocyte wound healing. In: International Journal of Molecular Sciences, Vol. 21, No. 9, 2020, Art. No. 3343 - SCOPUS

ADC44 Bauer, Georg (40%) - Sersenová, Dominika [UKOMFKAFZM] (20%) - Graves, David B. (20%) - Machala, Zdenko [UKOMFKAFZM] (20%): Dynamics of singlet oxygen-triggered, RONS-based apoptosis induction after treatment of tumor cells with cold atmosphericplasma or plasma-activated medium [elektronický dokument]
Lit.: 132 zázn.
In: Scientific reports [elektronický dokument]. - Roč. 9, č. 1 (2019), s. [1-34], Art. No. 13931 [online]. - ISSN (online) 2045-2322
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
SJR (SCOPUS) 2019=1,341
SNIP (SCOPUS) 2019=1,365
CiteScore (SCOPUS) 2019=7,20
IF (JCR) 2019=3,998
Kvartil Q:
wos-jcr -- Q1 [Multidisciplinary sciences] -- 2019
scimago-sjr -- Q1 [Multidisciplinary] -- 2019
Ohlasy (2):
[o1] 2019 Privat-Maldonado, A. - Bengtson, C. - Razzokov, J. - Smits, E. - Bogaerts, A.: Modifying the tumour microenvironment: challenges and future perspectives for anticancer plasma treatments. In: Cancers, Vol. 11, No. 12, 2019, Art. No.1920 - SCI ; SCOPUS
[o1] 2020 Semmler, M. L. - Bekeschus, S. - Schäfer, M. - Bernhardt, T. - Fischer, T. - Witzke, K. - Seebauer, C. - Rebl, H. - Grambow, E. - Vollmar, B. - Nebe, J. B. - Metelmann, H. R. - von Woedtke, T. - Emmert, S. - Boeckmann, L.:

Molecularmechanisms of the efficacy of cold atmospheric pressure plasma (CAP) in cancer treatment. In: Cancers, Vol. 12, No. 2, 2020, Art. No. 269 - SCI ; SCOPUS

ADC45 Jaworek, Anatol (35%) - Ganán-Calvo, Alfonso M. (30%) - Machala, Zdenko [UKOMFKAFZM] (35%): Low temperature plasmas and electrosprays
Lit.: 229 zázn.
In: Journal of Physics D. - Roč. 52, č. 23 (2019), s. 1-27, Art. No. 233001. - ISSN (print) 0022-3727
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2018=2.829
Kvartil Q:
wos-jcr -- Q2 [Physics, applied] -- 2018
Ohlasy (6):
[o1] 2019 Korolev, Y. D. - Nekhoroshev, V. O. - Frants, O. B. - Landl, N. V. - Suslov, A. I. - Bolotov, A. V.: Features of the current sustainment in a low-current discharge in airflow. In: Plasma Chemistry and Plasma Processing, Vol. 39, No.6, 2019, s. 1519-1532 - SCI ; SCOPUS
[o1] 2020 Levko, D. - Arslanbekov, R. R. - Kolobov, V. I.: Multi-scale dynamics of atmospheric-pressure discharges ignited over liquid electrodes. In: Journal of Applied Physics, Vol. 127, No. 4, 2020, Art. No. 043301 - SCI ; SCOPUS
[o1] 2020 Mullen, M. - Giordano, B. C.: Combined secondary electrospray and corona discharge ionization (SECDI) for improved detection of explosive vapors using drift tube ion mobility spectrometry. In: Talanta, Vol. 209, 2020, Art. No. 120544- SCOPUS
[o1] 2020 Lin, L. - Xu, H. - Gao, H. - Zhu, X. - Hessel, V.: Plasma-assisted nitrogen fixation in nanomaterials: Fabrication, characterization, and application. In: Journal of Physics D: Applied Physics, Vol. 53, No. 13, 2020, Art. No. 133001- SCI ; SCOPUS
[o1] 2020 Hamdan, A. - Gagnon, C. - Aykul, M. - Profili, J.: Characterization of a microwave plasma jet (TIAGO) in-contact with water: Application in degradation of methylene blue dye. In: Plasma Processes and Polymers, Vol. 17, No. 3, 2020,Art. No. 1900157 - SCI ; SCOPUS
[o1] 2020 Yang, H. - Liu, H. - Yang, F. - Ji, Z. - Gao, B. - Gong, M. - Zhou, B. - Zhu, C.: Electromagnetic-thermal-stress coupling simulation for shore power cable with insulating crack air gap. In: International Journal of AppliedElectromagnetics and Mechanics, Vol. 62, No. 3, 2020, s. 461-475 - SCI ; SCOPUS

ADC46 Khlyustova, Anna (20%) - Labay, Cédric (20%) - Machala, Zdenko [UKOMFKAFZM] (20%) - Ginebra, Maria-Pau (20%) - Canal, Cristina (20%): Important parameters in plasma jets for the production of RONS in liquids for plasma medicine: A brief review
Lit.: 64 zázn.
In: Frontiers of Chemical Science and Engineering. - Roč. 13, č. 2 (2019), s. 238-252. - ISSN (print) 2095-0179
Registrované v: scopus
Registrované v: wos
Ohlasy (16):
[o1] 2019 Neyts, E. C.: Special Issue on future directions in plasma nanoscience. In: Frontiers of Chemical Science and Engineering, Vol. 13, No. 2, 2019, s. 199-200 - SCI ; SCOPUS
[o1] 2019 Xu, H. - Chen, C. - Liu, D. - Wang, W. - Xia, W. - Liu, Z. - Guo, L. - Kong, M. G.: The effect of gas additives on reactive species and bacterial inactivation by a helium plasma jet. In: Plasma Science and Technology, Vol. 21, No.11, 2019, Art. No. 115502 - SCI ; SCOPUS
[o1] 2020 do Nascimento, F. - Machida, M. - Kostov, K. G. - Moshkalev, S.: Four-electrodes DBD plasma jet device with additional floating electrode. In: European Physical Journal D, Vol. 74, No. 1, 2020, Art. No. 14 - SCI ; SCOPUS
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[o1] 2020 Dzimitrowicz, A.- Bielawska-Pohl, A.- Jamroz, P. - Dora, J. - Krawczenko, A. - Busco, G. - Grillon, C. - Kieda, C. - Klimczak, A. - Terefinko, D. - Baszczynska, A. - Pohl, P.: Activation of the normal human skin cells by a portabledielectric barrier discharge-based reaction-discharge system of a defined gas temperature. In: Plasma Chemistry and Plasma Processing, Vol. 40, No. 1, 2020, s. 79-97 - SCI ; SCOPUS
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[o1] 2020 Chen, Z. - Li, L. - Zhang, H. - Huang, Q.: Stimulation of biomass and astaxanthin accumulation in Haematococcus pluvialis using low-temperature plasma (LTP). In: Bioresource Technology Reports, Vol. 9, 2020, Art. No. 100385 - SCOPUS
[o1] 2020 Lotfy, K.: The impact of the carrier gas composition of non-thermal atmospheric pressure plasma jet for bacteria sterilization. In: AIP Advances, Vol. 10, No. 1, 2020, Art. No. 015303 - SCI ; SCOPUS
[o1] 2020 Neyts, E. C.: Special Issue on future directions in plasma nanoscience. In: Frontiers of Chemical Science and Engineering, Vol. 13, No. 2, 2020, s. 199-200 - SCI
[o1] 2020 Nguyen, D. B. - Trinh, Q. H. - Mok, Y. S. - Lee, W. G.: Generation of cold atmospheric plasma jet by a coaxial double dielectric barrier reactor. In: Plasma Sources Science and Technology, Vol. 29, No. 3, 2020, Art. No. 035014 - SCI; SCOPUS
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[o1] 2020 Xu, H. - Chen, C. - Liu, D. X. - Wang, W. T. - Xia, W. J. - Liu, Z. J. - Guo, L. - Kong, M. G.: The effect of gas additives on reactive species and bacterial inactivation by a helium plasma jet. In: Plasma Science & Technology, Vol.21, No. 11, 2020, Art. No. 115502 - SCI

ADC47 Machala, Zdenko [UKOMFKAFZM] (30%) - Tarabová, Barbora [UKOMFKAFZM] (20%) - Sersenová, Dominika [UKOMFKAFZM] (10%) - Janda, Mário [UKOMFKAFZM] (20%) - Hensel, Karol [UKOMFKAFZM] (20%): Chemical and antibacterial effects of plasma activated water:correlation with gaseous and aqueous reactive oxygen and nitrogen species, plasma sources and air flow conditions
Lit.: 68 zázn.
In: Journal of Physics D. - Roč. 52, č. 3 (2019), s. 1-17, Art. No. 034002. - ISSN (print) 0022-3727
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2018=2.829
Kvartil Q:
wos-jcr -- Q2 [Physics, applied] -- 2018
Ohlasy (22):
[o1] 2019 Gamaleev, V. - Iwata, N. - Hori, M. - Hiramatsu, M. - Ito, M.: Direct treatment of liquids using low-current arc in ambient air for biomedical applications. In: Applied Sciences, Vol. 9, No. 17, 2019, Art. No. 3505 - SCI ; SCOPUS
[o1] 2019 Girard-Sahun, F. - Badets, V. - Lefrancois, P. - Sojic, N. - Clement, F. - Arbault, S.: Reactive oxygen species generated by cold atmospheric plasmas in aqueous solution: Successful electrochemical monitoring in situ under a highvoltage system. In: Analytical Chemistry, Vol. 91, No. 13, 2019, s. 8002-8007 - SCI ; SCOPUS
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[o1] 2019 Peverall, R. - Ritchie, G. A. D.: Spectroscopy techniques and the measurement of molecular radical densities in atmospheric pressure plasmas. In: Plasma Sources Science and Technology, Vol. 28, No. 7, 2019, Art. No. 073002 - SCI ;SCOPUS
[o1] 2019 Popov, N. - Babaeva, N. - Naidis, G.: Recent advances in the chemical kinetics of non-equilibrium plasmas. In: Journal of Physics D: Applied Physics, Vol. 52, No. 16, 2019, Art. No. 160301 - SCI ; SCOPUS
[o1] 2019 Tachibana, K. - Nakamura, T.: Comparative study of discharge schemes for production rates and ratios of reactive oxygen and nitrogen species in plasma activated water. In: Journal of Physics D: Applied Physics, Vol. 52, No. 38, 2019, Art. No. 385202 - SCI ; SCOPUS
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[o1] 2019 Wang, S. - Yang, D.-Z. - Zhou, R. - Zhou, R. - Fang, Z. - Wang, W. - Ostrikov, K.: Mode transition and plasma characteristics of nanosecond pulse gas-liquid discharge: Effect of grounding configuration. In: Plasma Processes andPolymers, Vol. 17, No. 3, 2019, Art. No. e1900146 - SCI; SCOPUS
[o1] 2020 Bisag, A. - Bucci, C. - Coluccelli, S. - Girolimetti, G. - Laurita, R. - De Iaco, P. - Perrone, A. M. - Gherardi, M. - Marchio, L. - Porcelli, A. M. - Colombo, V. - Gasparre, G.: Plasma-activated ringer s lactate solution displays aselective cytotoxic effect on ovarian cancer cells. In: Cancers, Vol. 12, No. 2, 2020, Art. No. 476 - SCI ; SCOPUS

[o1] 2020 Liu, K. - Yang, Z. - Liu, S.: Study of the characteristics of DC multineedle-to-water plasma-activated water and its germination inhibition efficiency: The effect of discharge mode and gas flow. In: IEEE Transactions on PlasmaScience, Vol. 48, No. 4, 2020, s. 969-979 - SCI ; SCOPUS
[o1] 2020 Baek, K. H. - Yong, H. I. - Yoo, J. H. - Kim, J. W. - Byeon, Y. S. - Lim, J. - Yoon, S. Y. - Ryu, S. - Jo, C.: Antimicrobial effects and mechanism of plasma activated fine droplets produced from arc discharge plasma on planktonicListeria monocytogenes and Escherichia coli O157:H7. In: Journal of Physics D, Vol. 53, No. 12, 2020, Art. No. 124002 - SCOPUS
[o1] 2020 Ma, S. - Yan, W. - Bi, Z. - Wang, H. - Song, Y. - Wang, D.: Influence of water vapor concentration on discharge dynamics and reaction products of underwater discharge within a He/H2O-filled bubble at atmospheric pressure. In: PlasmaScience & Technology, Vol. 22, No. 8, 2020, Art. No. 085406 - SCI
[o1] 2020 Feizollahi, E. - Iqdiam, B. - Vasanthan, T. - Thilakarathna, M. S. - Roopesh, M. S.: Effects of atmospheric-pressure cold plasma treatment on deoxynivalenol degradation, quality parameters, and germination of barley grains. In: Applied Sciences-Basel, Vol. 10, No. 10, 2020, Art. No. 3530 - SCI ; SCOPUS
[o1] 2020 Gamaleev, V. - Tsutsumi, T. - Hiramatsu, M. - Ito, M. - Hori, M.: Generation and diagnostics of ambient air glow discharge in centimeter-order gaps. In: IEEE Access, Vol. 8, 2020, s. 72607-72619 - SCI ; SCOPUS
[o1] 2020 Gamaleev, V. - Iwata, N. - Ito, G. - Hori, M. - Hiramatsu, M. - Ito, M.: Scalable treatment of flowing organic liquids using ambient-air glow discharge for agricultural applications. In: Applied Sciences-Basel, Vol. 10, No. 3, 2020,Art. No. 801 - SCI ; SCOPUS
[o1] 2020 Maršálek, B. - Maršálková, E. - Odehnalová, K. - Pochylý, F. - Rudolf, P. - Stahel, P. - Rahel, J. - Čech, J. - Fialová, S. - Zezulka, Š.: Removal of Microcystis aeruginosa through the combined effect of plasma discharge andhydrodynamic cavitation. In: Water, Vol. 12, No. 1, 2020, Art. No. 8 - SCI ; SCOPUS
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[o1] 2020 Xu, Z. - Zhou, X. - Yang, W. - Zhang, Y. - Ye, Z. - Hu, S. - Ye, C. - Li, Y. - Lan, Y. - Shen, J. - Ye, X. - Yang, F. - Cheng, C: In vitro antimicrobial effects and mechanism of air plasma-activated water on Staphylococcus aureusbiofilm. In: Plasma Processes and Polymers, Vol. 17, No. 8, 2020, Art. No. 1900270 - SCOPUS
[o1] 2020 Zhao, Y. M. - Ojha, S. - Burgess, C. M. - Sun, D. W. - Tiwari, B. K.: Influence of various fish constituents on inactivation efficacy of plasma-activated water. In: International Journal of Food Science and Technology, Vol. 55, No.6, 2020, s. 2630-2641 - SCOPUS

ADC48 Pawlat, Joanna (20%) - Terebun, Piotr (5%) - Kwiatkowski, Michal (5%) - Tarabová, Barbora [UKOMFKAFZM] (10%) - Kovaľová, Zuzana (5%) - Kučerová, Katarína [UKOMFKAFZM] (10%) - Machala, Zdenko [UKOMFKAFZM] (15%) - Janda, Mário [UKOMFKAFZM] (10%) - Hensel, Karol [UKOMFKAFZM] (20%): Evaluation of oxidative species in gaseous and liquid phase generated by mini-gliding arc discharge
Lit.: 49 zázn.
In: Plasma Chemistry and Plasma Processing. - Roč. 39, č. 3 (2019), s. 627-642. - ISSN (print) 0272-4324
[ISNTP 2018 : International Symposium on Non-Thermal/Thermal Plasma Pollution Control Technology and Sustainable Energy. 11, Montegrotto Terme, 01.07.2018 - 05.07.2018]
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2019=2,178
Kvartil Q:
wos-jcr -- Q2 [Physics, applied] -- 2019
Ohlasy (7):
[o1] 2019 Gamaleev, V. - Iwata, N. - Hori, M. - Hiramatsu, M. - Ito, M.: Direct Treatment of liquids using low-current Arc in ambient air for biomedical applications. In: Applied Sciences-Basel, Vol. 9, No. 17, 2019, Art. No. 3505 - SCI ;SCOPUS
[o1] 2019 Mazurek, P. A.: Analysis of the configuration of electrodes in relation to conducted disturbances in a plasma reactor. In: Przeglad Elektrotechniczny, Vol. 95, No. 12, 2019, s. 176-179 - SCI ; SCOPUS
[o1] 2019 Paradisi, C. - Marotta, E. - Locke, B. R.: Papers by selected lecturers at the 11th International Symposium on Non-thermal/Thermal Plasma Pollution Control Technology & Sustainable Energy (ISNTPT 11). In: Plasma Chemistry and PlasmaProcessing, Vol. 39, No. 3, 2019, s. 519-522 - SCI ; SCOPUS
[o1] 2020 Gamaleev, V. - Tsutsumi, T. - Hiramatsu, M. - Ito, M. - Hori, M.: Generation and diagnostics of ambient air glow discharge in centimeter-order gaps. In: IEEE Access, Vol. 8, 2020, s. 72607-72619 - SCI ; SCOPUS
[o1] 2020 Gamaleev, V. - Iwata, N. - Ito, G. - Hori, M. - Hiramatsu, M. - Ito, M.: Scalable treatment of flowing organic liquids using ambient-air glow discharge for agricultural applications. In: Applied Sciences-Basel, Vol. 10, No. 3, 2020,Art. No. 801 - SCI ; SCOPUS

[o1] 2020 Gamaleev, V. - Iwata, N. - Hiramatsu, M. - Ito, M.: Tuning of operational parameters for effective production of nitric oxide using an ambient air rotating glow discharge jet. In: Japanese Journal of Applied Physics, Vol. 59, 2020,Art. No. SHHF04 - SCI ; SCOPUS
[o1] 2020 Stryczewska, H. D.: Supply systems of non-thermal plasma reactors. Construction review with examples of applications. In: Applied Sciences, Vol. 10, No. 9, 2020, Art. No. 3242 - SCOPUS

ADC49 Stancampiano, Augusto (20%) - Gallingani, Tommaso (20%) - Gherardi, Matteo (10%) - Machala, Zdenko [UKOMFKAFZM] (20%) - Maguire, Paul (10%) - Colombo, Vittorio (5%) - Pouvesle, Jean-Michel (5%) - Robert, Eric (10%): Plasma and Aerosols: Challenges,Opportunities and Perspectives [elektronický dokument]
Lit.: 64 zázn.
In: Applied Sciences [elektronický dokument]. - Roč. 9, č. 18 (2019), s. 1-10 [online]. - ISSN (online) 2076-3417
URL: https://www.mdpi.com/2076-3417/9/18/3861/htm
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
SJR (SCOPUS) 2019=0,418
SNIP (SCOPUS) 2019=1,048
CiteScore (SCOPUS) 2019=2,4
IF (JCR) 2019=2,474
Kvartil Q:
wos-jcr -- Q2 [Chemistry, multidisciplinary] -- 2019
wos-jcr -- Q2 [Engineering, multidisciplinary] -- 2019
wos-jcr -- Q3 [Materials science, multidisciplinary] -- 2019
wos-jcr -- Q2 [Physics, applied] -- 2019
Ohlasy (4):
[o1] 2020 Brandi, F. - Labate, L. - Rapagnani, D. - Buompane, R. - Leva, A. - Gialanella, L. - Gizzi, L. A.: Optical and spectroscopic study of a supersonic flowing helium plasma: energy transport in the afterglow. In: Scientific Reports, Vol.10, No. 1, 2020, Art. No. 5087 - SCOPUS
[o1] 2020 Li, Z. - Liu, J. - Lu, X.: A large atmospheric pressure nonequilibrium open space air plasma based on a rotating electrode. In: Plasma Sources Science & Technology, Vol. 29, No. 4, 2020, Art. No. 045015 - SCI
[o1] 2020 Liu, Y. - Tan, Z. - Wang, X. - Li, X.: A numerical investigation on the reactive species generation and its correlation with electron energy in atmospheric-pressure helium/humid air plasma jets. In: IEEE Transactions on PlasmaScience, Vol. 48, No. 4, 2020, s. 1001-1007 - SCI
[o1] 2020 Palumbo, F. - Porto, C. L. - Fracassi, F. - Favia, P.: Recent advancements in the use of aerosol-assisted atmospheric pressure plasma deposition. In: Coatings, Vol. 10, No. 5, 2020, Art. No. 440 - SCOPUS

ADC50 Tarabová, Barbora [UKOMFKAFZM] (40%) - Lukeš, Petr (10%) - Hammer, Malte U. (10%) - Jablonowski, Helena (10%) - Woedtke, Thomas von (5%) - Reuter, Stephan (5%) - Machala, Zdenko [UKOMFKAFZM] (20%): Fluorescence measurements ofperoxynitrite/peroxynitrous acid in cold air plasma treated aqueous solutions
Lit.: 93 zázn.
In: Physical Chemistry Chemical Physics. - Roč. 21, č. 17 (2019), s. 8883-8896. - ISSN (print) 1463-9076
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
SJR (SCOPUS) 2018=1,310
SNIP (SCOPUS) 2018=0,981
CiteScore (SCOPUS) 2018=3,69
IF (JCR) 2019=3,43
Kvartil Q:
wos-jcr -- Q1 [Physics, atomic, molecular & chemical] -- 2019
Ohlasy (3):
[o1] 2020 Breen, C. - Pal, R. - Elsegood, M. R. J. - Teat, S. J. - Iza, F. - Wende, K. . Buckley, B. R. - Butler, S. J.: Time-resolved luminescence detection of peroxynitrite using a reactivity-based lanthanide probe. In: Chemical Science,Vol. 11, No. 12, 2020, s. 3164-3170 - SCI ; SCOPUS
[o1] 2020 Ma, M. - Zhang, Y. - Lv, Y. - Sun, F.: The key reactive species in the bactericidal process of plasma activated water. In: Journal of Physics D, Vol. 53, No. 18, 2020, Art. No. 185207 - SCI ; SCOPUS
[o1] 2020 Sardella, E. - Mola, M. G. - Gristina, R. - Piccione, M. - Veronico, V. - De Bellis, M. - Cibelli, A. - Buttiglione, M. - Armenise, V. - Favia, P. - Nicchia, G. P.: A synergistic effect of reactive oxygen and reactive nitrogenspecies in plasma activated liquid media triggers astrocyte wound healing. In: International Journal of Molecular Sciences, Vol. 21, No. 9, 2020, Art. No. 3343 - SCOPUS

ADD Vedecké práce v domácich karentovaných časopisoch

ADD01 Janda, Mário [UKOMFKAFZM] - Machala, Zdenko [UKOMFKAFZM] - Morvová, Marcela [UKOMFKAFZM] -

Franček, Vladimír [UKOMFKAFZMd] - Lukáč, Peter [UKOMFKEFs]: Web-EEDF: Open software for modeling the electron dynamics
Lit. 10 zázn., 5 obr., 2 tab.
In: Acta Physica Slovaca. - Vol. 55, No. 6 (2005), s. 507-514. - ISSN 0323-0465
Indikátor časopisu:
IF (JCR) 2005=0,359

ADE Vedecké práce v ostatných zahraničných časopisoch

ADE01 Machala, Zdenko [UKOMFKAFZM] (50%) - Marode, Emmanuel (20%) - Laux, Christophe O. (20%) - Kruger, Charles H. (10%): DC glow discharges in atmospheric pressure air
Lit. 11 zázn., 6 obr.
In: Journal of Advanced Oxidation Technologies. - Vol. 7, No. 2 (2004), s. 133-137. - ISSN 1203-8407
Registrované v: wos
Registrované v: scopus
Ohlasy (55):
[o3] 2006 Janda, M.: The study of plasma induced chemistry in gaseous mixture N2-CO2-H2O. Innsbruck : Leopold Franzens University, 2006, S. 167
[o1] 2007 Muller, S. Zahn, R. J.: Air pollution control by non-thermal plasma. In: Contributions to Plasma Physics, Vol. 47, No. 7, 2007, s. 520-529 - SCI
[o1] 2007 Naidis, G. V.: Simulation of convection-stabilized low-current glow and arc discharges in atmospheric-pressure air. In: Plasma Sources Science & Technology, Vol. 16, No. 2, 2007, s. 297-303 - SCI ; SCOPUS
[o1] 2007 Risacher, A. - Larigaldie, S. - Bobillot, G. - Marcellin, J.-P. - Picard, L.: Active stabilization of low-current arc discharges in atmospheric-pressure air. In: Plasma Sources Science & Technology, Vol. 16, No. 1, 2007, s. 200-209 -SCI ; SCOPUS
[o1] 2008 Dong, C. - Wang, W. G. - Li, H. Y.: Atmospheric. pressure air direct current glow discharge ionization source for ion mobility spectrometry. In: Analytical Chemistry, Vol. 80, No. 10, 2008, s. 3925-3930 - SCI
[o3] 2008 Risacher, A.: Étude de l'interaction d'un arc électrique de faible puissance avec une onde électromagnétique dans un écoulement d'air a pression atmosphérique. Paris : Université de Paris XI Orsay, 2008, 140 s.
[o1] 2009 Arkhipenko, V. I. - Callegari, T. - Safronau, Y. A. - Simonchik, L. V.: Atmospheric-pressure air glow discharge in a three-electrode configuration. In: IEEE Transactions on Plasma Science, Vol. 37, No. 7, Part 2, 2009, s. 1297-1304 -SCI ; SCOPUS
[o1] 2009 Hensel, K.: Microdischarges in ceramic foams and honeycombs. In: European Physical Journal D, Vol. 54, No. 2, 2009, s. 141-148 - SCI ; SCOPUS
[o1] 2009 Shirai, N. - Shito, H. - Ibuka, S. - Ishii, S.: DC corona and glow discharges generated along the intersecting axial miniature gas flows under atmospheric pressure air. In: Applied Physics Express, Vol. 2, No. 7, 2009, Art. No.076001 - SCI ; SCOPUS
[o1] 2010 Xiong, Z. - Lu, X. P. - Feng, A. - Pan, Y. - Ostrikov, K.: Highly effective fungal inactivation in He+ O2 atmospheric-pressure nonequilibrium plasmas. In: Physics of Plasmas, Vol. 17, No. 12, 2010, Art. No. 123502 - SCI ; SCOPUS
[o1] 2011 Gutsol, A. - Rabinovich, A. - Fridman, A.: Combustion-assisted plasma in fuel conversion. In: Journal of Physics D: Applied Physics, Vol. 44, No. 27, 2011, Art. No. 274001 - SCI ; SCOPUS
[o3] 2011 Kaddouri, F.: Développment de diagnostic optiques avancés pour l' étude de la cinétique ultrarapide de production d' oxygene par décharge nanoseconde dans l' air a pression atmosphérique. Paris : Ecole Centrale des Arts, 2011, 137 s.
[o1] 2011 Stoican, O. S.: An atmospheric pressure plasma source driven by a train of monopolar high voltage pulses superimposed to a dc voltage. In: EPJ Applied Physics, Vol. 55, No. 3, 2011, Art. No. 30801 - SCI ; SCOPUS
[o1] 2011 Wu, S. - Wand, Z. - Huang, Q. - Lu, X. - Pan, Y.: Study on a room-temperature air plasma for biomedical application. In: IEEE Transactions on Plasma Science, Vol. 39, No. 6, PART 2, 2011, Art. No. 5756245, s. 1489-1495 - SCI ; SCOPUS
[o1] 2012 Arkhipenko, V. I. - Kirillov, A. A. - Safronau, Y. A. - Simonchik, L. V. - Zgirouski, S. M.: Plasma non-equilibrium of the DC normal glow discharges in atmospheric pressure atomic and molecular gases. In: European Physical Journal D,Vol. 66, No. 10, 2012, Art. No. 252 - SCI ; SCOPUS
[o1] 2012 Korolev, Y. D. - Frants, O. B. - Landl, N. V. - Suslov, A. I.: Low-current plasmatron as a source of nitrogen oxide molecules. In: IEEE Transactions on Plasma Science, Vol. 40, No. 11, 2012, s. 2837-2842 - SCI ; SCOPUS
[o3] 2012 Korolev, Yu. D. - Frants, O. B. - Landl, N. V. - Kasyanov, V. S. - Galanov, S. I. - sidorova, O. I. - Kim, Y. - Rosocha, L. A. - Matveev, I. B.: Methane oxidation in a plasma-assisted combustion system based on nonsteady-stateplasmatron. In: 8th International Symposium on Non-Thermal/Thermal Plasma Pollution Control Technology & Sustainable Energy. Gif-sur-Yvette : Supélec, 2012, nestr.
[o1] 2012 Korolev, Y. D. - Frants, O. B. - Geyman, V. G. - Kasyanov, V. S. - Landl, N. V.: Transient processes during formation of a steady-state glow discharge in air. In: IEEE Transactions on Plasma Science, Vol. 40, No. 11, Spec. Issue,Part 1, 2012, s. 2951-2960 - SCI ; SCOPUS
[o3] 2012 Landl, N. V. - Korolev, Yu. D. - Frants, O. B.: Nitric oxide generation in plasma jet of low-current plasmatron. In: 8th International Symposium on Non-Thermal/Thermal Plasma Pollution Control Technology & Sustainable Energy. Gif-sur-Yvette : Supélec, 2012, nestr.

[o1] 2012 Lopez, A. - Diez, R. - Perilla, G. - Patino, D.: Analysis and comparison of three topologies of the ladder multilevel DC/DC converter. In: IEEE Transactions on Power Electronics, Vol. 27, No. 7, 2012, s. 3119-3127 - SCI ; SCOPUS
[o1] 2012 Naidis, G. V.: Simulation of convection-stabilized modulated discharges in atmospheric-pressure air. In: Plasma Sources Science & Technology, Vol. 21, No. 2, 2012, Art. No. 025009 - SCI ; SCOPUS
[o1] 2012 Papadakis, A. P.: Numerical analysis of the heating effects of an atmospheric air-dielectric barrier discharge. In: IEEE Transactions on Plasma Science, Vol. 40, No. 3, 2012, s. 811-820 - SCI ; SCOPUS
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ADE03 Szalay, Zsolt [UKOMFKEFd] (50%) - Ráheľ, Jozef (30%) - Machala, Zdenko [UKOMFKAFZM] (10%) - Hensel, Karol [UKOMFKAFZM] (10%): Assesing the self-ceaning capability of a coplanar barrier discharge with different barrier surface coatings and electrodegeometries
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ADF Vedecké práce v ostatných domácich časopisoch

ADF01 Mišenko, Pavol (40%) - Gardlík, Roman [UKOLFUMB] (30%) - Machala, Zdenko [UKOMFKAFZM] (30%): Genetická transformácia baktérií s využitím studenej plazmy = Genetic transformation of bacteria using cold plasma
Popis urobený 13.11.2017
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ADM Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADM01 Hensel, Karol [UKOMFKAFZM] (20%) - Kučerová, Katarína [UKOMFKAFZM] (15%) - Tarabová, Barbora [UKOMFKAFZM] (10%) - Janda, Mário [UKOMFKAFZM] (10%) - Machala, Zdenko [UKOMFKAFZM] (10%) - Sano, Kaori (5%) - Mihai, Cosmin Teodor (5%) - Ciorpac, Mitica(5%) - Gorgan, Lucian Dragos (5%) - Jijie, Roxana (5%) - Pohoata, Valentin (5%) - Topala, Ionut (5%): Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells, and biomolecules
Lit. 82 zázn., 12 obr., 1 tab.
In: Biointerphases. - Vol. 10, No. 2 (2015), Art. No. 029515, s. 1-14. - ISSN 1934-8630
Registrované v: wos

Registrované v: scopus
Ohlasy (48):
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Recenzované
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AFC28 Janda, Mário [UKOMFKAFZM] (50%) - Machala, Zdenko [UKOMFKAFZM] (20%) - Stancu, Gabi D. - Pai, David Z. - Lacoste, Deanna A. - Laux, Christophe O.: Transient spark discharge in air at atmospheric pressure
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AFC30 Leštinská, Lenka [UKOMFKAFZMd] - Martišovitš, Viktor [UKOMFKAFZM] (20%) - Zahoran, Miroslav [UKOMFKEF] (10%) - Machala, Zdenko [UKOMFKAFZM] (30%): Atmospheric pressure MW plasma for waste carbon treatment
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AFC32 Machala, Zdenko [UKOMFKAFZM] (30%) - Jedlovský, Igor [UKOMFKJBd] (20%) - Pongrác, Branislav [UKOMFKAFZMd] (10%) - Chládeková, L. - Giertl, D. - Šikurová, Libuša [UKOMFKJFB] (20%): Various DC discharges for sterilization at atmopheric pressure
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AFC41 Kovaľová, Zuzana [UKOMFKAFZMd] (60%) - Machala, Zdenko [UKOMFKAFZM] (40%): Biofilm inactivation on teeth and plastic surfaces with DC corona dischares
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AFC42 Kovaľová, Zuzana [UKOMFKAFZMd] (50%) - Machala, Zdenko [UKOMFKAFZM] (50%): Decontamination of Streptococci biofilms on teeth and plastic surfaces with DC corona discharges
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AFC43 Machala, Zdenko [UKOMFKAFZM] (30%) - Lukeš, Petr (20%) - Tarabová, Barbora [UKOMFKAFZM] (25%) - Špetlíková, Eva (5%) - Šikurová, Libuša [UKOMFKJFB] (5%) - Hensel, Karol [UKOMFKAFZM] (15%): Bactericidal

effects in water sprayed through transientspark in air and related formation of ROS and RNS
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AFC45 Marode, Emmanuel (40%) - Dessante, Philippe (30%) - Machala, Zdenko [UKOMFKAFZM] (30%): Modeling and control of the various high pressure plasma states obtained in air at atmospheric pressures during the spark transition
Lit. 8 zázn., 1 obr.
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AFC46 Pongrác, Branislav [UKOMFKAFZMd] (50%) - Machala, Zdenko [UKOMFKAFZM] (30%) - Janda, Mário [UKOMFKAFZM] (10%) - Martišovitš, Viktor [UKOMFKAFZM] (10%): ICCD imaging of electro-spraying of water with positive corona discharge
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AFC47 Janda, Mário [UKOMFKAFZM] (60%) - Hoder, Tomáš (20%) - Sarani, Abdollah (10%) - Brandenburg, Ronny (5%) - Machala, Zdenko [UKOMFKAFZM] (5%): Cross-correlation spectroscopy study of the breakdown mechanism in atmospehric pressure air transient sparkdischarge
Lit. 12 zázn.
In: Hakone XV: International Symposium on High Pressure Low Temperature Plasma Chemistry. - Brno : Masaryk University, 2016. - S. 386-389. - ISBN 978-80-210-8317-2
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AFC50 Kovaľová, Zuzana [UKOMFKAFZMd] (40%) - Leroy, Magali (15%) - Machala, Zdenko [UKOMFKAFZM] (30%) - Odic, Emmanuel (15%): DC corona discharge for bacterial biofilm decontamination
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In: 11th Symposium on Elementary Processes and Chemical Reactions in Low Temperature Plasma : Book of Contributed Papers, Part 2. - Bratislava : Union of Slovak Matematicians and Physicists SAV, 1998. - S. 227-231. - ISBN 80-967454-8-4
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In: 15th Symposium on Applications of Plasma Processes and 3rd EU-Japan Joint Symposium on Plasma Processing. - Bratislava : Comenius University Press, 2005. - S. 185-186. - ISBN 80-223-2018-8
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AFD04 Leštinská, Lenka [UKOMFKAFZMd] (50 %) - Foltin, Viktor [UKOMFKEF] (20 %) - Zahoran, Miroslav [UKOMFKEF] (10 %) - Machala, Zdenko [UKOMFKAFZM] (20 %): Application of atmospheric microwave nitrogen plasma torch for carbon treatment
Lit. 2 zázn.
In: The 3rd Seminar on New Trends in Plasma Physics and Solid State Physics. - Bratislava : Knižničné a edičné centrum FMFI UK, 2007. - S. 79-81. - ISBN 978-80-89186-24-2
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Lit. 3 zázn., 2 obr.
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AFD07 Janda, Mário [UKOMFKAFZM] (50%) - Niklová, Adriana [UKOMFKAFZMd] (20%) - Martišovitš, Viktor [UKOMFKAFZM] (20%) - Machala, Zdenko [UKOMFKAFZM] (10%): Transient spark - DC driven nanosecond pulsed discharge in atmospheric air
Lit. 9 zázn., 5 obr.
In: HAKONE XII. - Bratislava : FMFI UK, 2010. - S. 69-73. - ISBN 978-80-89186-72-3
[HAKONE 2010 : High Pressure Low Temperature Plasma Chemistry : International Symposium. 12th, Trenčianske Teplice, 12.-17.9.2010]
Ohlasy (3):
[o1] 2011 Gutsol, A. - Rabinovich, A. - Fridman, A.: Combustion-assisted plasma in fuel conversion. In: Journal of Physics D: Applied Physics, Vol. 44, No. 27, 2011, Art. No. 274001 - SCI ; SCOPUS
[o1] 2013 Bolotov, O. V. - Golota, V. I. - Gurtovoi, S. D. - Sitnikova, Y. V. - Moshinskii, D. V.: Gas temperature of diffuse negative corona discharge. In: Problems of Atomic Science and Technology, No. 4, 2013, s. 229-232 - SCI ; SCOPUS
[o1] 2014 Bolotov, O. V. - Golota, V. I. - Gurtovoi, S. D.: Distribution of the gas temperature in streamer discharge in air. In: Problems of Atomic Science and Technology, No. 6, 2014, s. 223-225 - SCI ; SCOPUS

AFD08 Leštinská, Lenka [UKOMFKAFZMd] (50%) - Martišovitš, Viktor [UKOMFKAFZM] (20%) - Machala, Zdenko [UKOMFKAFZM] (30%): Corona as temperature probe for atmospheric air microwave plasma
Lit. 14 zázn., 8 obr.
In: HAKONE XII. - Bratislava : FMFI UK, 2010. - S. 223-227. - ISBN 978-80-89186-72-3
[HAKONE 2010 : High Pressure Low Temperature Plasma Chemistry : International Symposium. 12th, Trenčianske Teplice, 12.-17.9.2010]

AFD09 Machala, Zdenko [UKOMFKAFZM] (50%) - Chládeková, Lenka (15%) - Pelach, Michal [UKOMFKJFB] (15%) - Tarabová, Barbora [UKOMFKAFZM] (20%): Biocidal agents in bio-decontamination by DC discharges in atmospheric air
Lit. 16 zázn., 4 obr.
In: HAKONE XII. - Bratislava : FMFI UK, 2010. - S. 538-543. - ISBN 978-80-89186-72-3
[HAKONE 2010 : High Pressure Low Temperature Plasma Chemistry : International Symposium. 12th, Trenčianske Teplice, 12.-17.9.2010]

AFD11 Machala, Zdenko [UKOMFKAFZM] (25%) - Tarabová, Barbora [UKOMFKAFZM] (15%) - Pelach, Michal [UKOMFKJFB] (15%) - Kovaľová, Zuzana [UKOMFKAFZMd] (15%) - Hensel, Karol [UKOMFKAFZM] (10%) - Janda, Mário [UKOMFKAFZM] (10%) - Šikurová, Libuša [UKOMFKJFB](10%): Bio-decontamination of water and surfaces by DC discharges in atmospheric air
Recenzované
Lit. 34 zázn.
In: Plasma for Bio-decontamination, Medicine and Food Security. - Dordrecht : Springer, 2012. - S. 31-44. - ISBN 978-94-007-28561-6
Edícia: NATO Science for Peace and Security Series - A: Chemistry and Biology
[Plasma for Bio-decontamination, Medicine and Food Security 2011 : NATO Advanced Research Workshop. Jasná, 15.-18.3.2011]
Ohlasy (5):

[o1] 2012 Halanda, J. - Zahoranová, A. - Kúdelčík, J. - Černák, M.: Chemical aspects of streamer mechanism for negative corona discharges. In: Chemické listy, Vol. 106, No. S5, Spec. Iss., 2012, s. s1447-s1449 - SCI
[o1] 2013 Han, J.: Review of major directions in non-equilibrium atmospheric plasma treatments in medical, biological, and bioengineering applications. In: Plasma Medicine, Vol. 3, No. 3, 2013, s. 173-242 - SCOPUS
[o1] 2013 Von Woedtke, T. - Haertel, B. - Weltmann, K. D. - Lindequist, U.: Plasma pharmacy - Physical plasma in pharmaceutical applications. In: Pharmazie, Vol. 68, No. 7, 2013, s. 492-498 - SCI ; SCOPUS
[o1] 2016 Raguse, M. - Fiebrandt, M. - Denis, B. - Stapelmann, K. - Eichenberger, P. - Driks, A. - Eaton, P. - Awakowicz, P. - Moeller, R.: Understanding of the importance of the spore coat structure and pigmentation in the Bacillus subtilisspore resistance to low-pressure plasma sterilization. In: Journal of Physics D-Applied Physics, Vol. 49, No. 28, 2016, Art. No. 285401 - SCI ; SCOPUS
[o1] 2018 Gupta, T. T. - Karki, S. B. - Fournier, R. - Ayan, H.: Mathematical modelling of the effects of plasma treatment on the diffusivity of biofilm. In: Applied Sciences, Vol. 8, No. 10, 2018, Art. No. 1729 - SCI ; SCOPUS

AFD12 Hensel, Karol [UKOMFKAFZM] (15%) - Kučerová, Katarína [UKOMFKAFZM] (10%) - Sano, Kaori (10%) - Tarabová, Barbora [UKOMFKAFZM] (10%) - Janda, Mário [UKOMFKAFZM] (10%) - Machala, Zdenko [UKOMFKAFZM] (10%) - Jijie, Roxana (10%) - Mihai, Cosmin Teodor(10%) - Gorgan, L. (5%) - Pohoata, Valentin (5%) - Topala, Ionut (5%): DC transient spark dischrge in water: Effects on cells, DNAS, proteins and enzymes
Popis urobený 14.7.2015
Lit. 3 zázn., 5 obr.
In: 20th Symposium on Application of Plasma Processes SAPP ; COST TD1208 Workshop on Application of Gaseous Plasma with Liquids [elektronický zdroj]. - Bratislava : Department of Experimental Physics FMFI UK, 2015. - S. 302-305 [online]. - ISBN978-80-8147-027-1
[SAPP 2015 : Symposium on Application of Plasma Processes. 20th, Tatranská Lomnica, 17.-22.1.2015]
[COST TD1208 : Workshop on Application of Gaseous Plasma with Liquids. Tatranská Lomnica, 17.-22.1.2015]
URL: http://neon.dpp.fmph.uniba.sk/sapp/download/SAPP_XX_2015.pdf

AFD13 Tarabová, Barbora [UKOMFKAFZM] (30%) - Lukeš, Petr (30%) - Kučerová, Katarína [UKOMFKAFZM] (15%) - Hensel, Karol [UKOMFKAFZM] (10%) - Šikurová, Libuša [UKOMFKJFB] (5%) - Machala, Zdenko [UKOMFKAFZM] (10%): Detection of ROS/RNS in water activated byair transient spark discharge
Popis urobený 24.3.2015
Lit. 13 zázn., 3 obr., 1 tab.
In: 20th Symposium on Application of Plasma Processes SAPP ; COST TD1208 Workshop on Application of Gaseous Plasma with Liquids [elektronický zdroj]. - Bratislava : Department of Experimental Physics FMFI UK, 2015. - S. 27-31 [online]. - ISBN978-80-8147-027-1
[SAPP 2015 : Symposium on Application of Plasma Processes. 20th, Tatranská Lomnica, 17.-22.1.2015]
[COST TD1208 : Workshop on Application of Gaseous Plasma with Liquids. Tatranská Lomnica, 17.-22.1.2015]
URL: http://neon.dpp.fmph.uniba.sk/sapp/download/SAPP_XX_2015.pdf

AFD14 Terebun, Piotr (20%) - Kwiatkowski, Michal (20%) - Kwrupski, Piotr (5%) - Pawlat, Joanna (10%) - Diatczyk, Jaroslaw (5%) - Janda, Mário [UKOMFKAFZM] (10%) - Hensel, Karol [UKOMFKAFZM] (15%) - Machala, Zdenko [UKOMFKAFZM] (15%): High speed cameraimaging og mini glidarc discharge
Popis urobený 14.7.2015
Lit. 7 zázn., 8 obr.
In: 20th Symposium on Application of Plasma Processes SAPP ; COST TD1208 Workshop on Application of Gaseous Plasma with Liquids [elektronický zdroj]. - Bratislava : Department of Experimental Physics FMFI UK, 2015. - S. 283-287 [online]. - ISBN978-80-8147-027-1
[SAPP 2015 : Symposium on Application of Plasma Processes. 20th, Tatranská Lomnica, 17.-22.1.2015]
[COST TD1208 : Workshop on Application of Gaseous Plasma with Liquids. Tatranská Lomnica, 17.-22.1.2015]
URL: http://neon.dpp.fmph.uniba.sk/sapp/download/SAPP_XX_2015.pdf
Ohlasy (1):
[o1] 2020 Stryczewska, H. D.: Supply systems of non-thermal plasma reactors. Construction review with examples of applications. In: Applied Sciences-Basel, Vol. 10, No. 9, 2020, Art. No. 3242 - SCI ; SCOPUS

AFD15 Janda, Mário [UKOMFKAFZM] (50%) - Hoder, Tomáš (20%) - Sarani, Abdollah (10%) - Brandenburg, Ronny (10%) - Machala, Zdenko [UKOMFKAFZM] (10%): Cross-correlation spectroscopy study of the Transient Spark discharge
Lit. 12 zázn.
In: ESCAMPIG XXIII : Europhysics Conference [elektronický zdroj]. - [Mulhouse] : European Physical Society, 2016. - S. 164-165 [USB kľúč]. - ISBN 979-10-96389-02-5
Edícia: EPS ECA ; Vol. 40D
[ESCAMPIG 2016 : Europhysics Conference on Atomic and Molecular Physics of Ionised Gases. 23rd, Bratislava, 12.-16.7.2016]

AFD16 Janda, Mário [UKOMFKAFZM] (50%) - Brandenburg, Ronny (10%) - Machala, Zdenko [UKOMFKAFZM] (20%) - Sarani, Abdollah (10%) - Gerling, T. (10%): Cross-correlation spectroscopy study of negative polarity transient spark

discharge evolution in ambientair
Lit. 8 zázn.
In: 21st Symposium on Application of Plasma Processes SAPP. - Bratislava : Department of Experimental Physics FMFI UK, 2017. - S. 208-212. - ISBN 978-80-8147-076-9
[SAPP 2017 : Symposium on Application of Plasma Processes. 21st, Štrbské Pleso, 13.-18.1.2017]

AFD17 Hassan, Mostafa Elsayed Ali [UKOMFKAFZM] (40%) - Janda, Mário [UKOMFKAFZM] (30%) - Machala, Zdenko [UKOMFKAFZM] (30%): Investigation of the electrosprayed water microdroplets using optical imaging methods
Lit.: 5 zázn.
In: 22nd Symposium on Application of Plasma Processes and 11th EU-Japan Joint Symposium on Plasma Processing [elektronický dokument] : Book of Contributed Papers. - Bratislava : Katedra experimentálnej fyziky, 2019. - S. 330-334. - ISBN 978-80-8147-089-9
[SAPP 2019 : Symposium on Application of Plasma Processes. 22, Štrbské Pleso, 18.01.2019 - 24.03.2019]
[EU-Japan JSPP 2019 : EU-Japan Joint Symposium on Plasma Processing. 11, Štrbské Pleso, 18.01.2019 - 24.01.2019]
URL: http://neon.dpp.fmph.uniba.sk/sappxxii/download/SAPP_XXII_JSPP_XI_Book_of_Contributed_Papers.pdf

AFD18 Machala, Zdenko [UKOMFKAFZM] (30%) - Tarabová, Barbora [UKOMFKAFZM] (20%) - Sersenová, Dominika [UKOMFKAFZM] (10%) - Janda, Mário [UKOMFKAFZM] (20%) - Hensel, Karol [UKOMFKAFZM] (20%): Gaseous and aqueous reactive oxygen and nitrogen species of airplasmas with water
Lit.: 15 zázn.
In: 22nd Symposium on Application of Plasma Processes and 11th EU-Japan Joint Symposium on Plasma Processing : Book of Contributed Papers. - Bratislava : Katedra experimentálnej fyziky, 2019. - S. 186-190. - ISBN 978-80-8147-089-9
[SAPP 2019 : Symposium on Application of Plasma Processes. 22, Štrbské Pleso, 18.01.2019 - 24.03.2019]
[EU-Japan JSPP 2019 : EU-Japan Joint Symposium on Plasma Processing. 11, Štrbské Pleso, 18.01.2019 - 24.01.2019]
URL: http://neon.dpp.fmph.uniba.sk/sappxxii/download/SAPP_XXII_JSPP_XI_Book_of_Contributed_Papers.pdf

AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

AFE01 Hensel, Karol [UKOMFKAFZM] (70%) - Machala, Zdenko [UKOMFKAFZM] (10%) - Mizuno, Akira: Microdischarges in ceramic foams and honeycomb monoliths
Lit. zázn., obr., tab.
In: Programme & Abstract Book of the 23rd Symposium on Plasma Physics and Technology. - Praha : České vysoké učení technické, 2008. - S. 182. - ISBN 978-80-01-04030-0
[SPPT 2008 : Symposium on Plasma Physics and Technology. 23rd, Praha, 16.-19.6.2008]

AFE02 Machala, Zdenko [UKOMFKAFZM] (100%) : Bio-decontamination by DC discharges at atmospherics pressure: various methods for identification of microbial inactivation mechanisms
In: 29th International Conference on Phenomena in Ionized Gases [elektronický zdroj]. - Mexico : [National Autonomous University of Mexico], 2009. - nestr. [1 s.] [CD ROM]
[ICPIG 2009 : International Conference on Phenomena in Ionized Gases. 29th, Cancún, 12.-17.7.2009]

AFE03 Hensel, Karol [UKOMFKAFZM] (30%) - Janda, Mário [UKOMFKAFZM] (15%) - Machala, Zdenko [UKOMFKAFZM] (10%) - Le Delliou, Pierre (20%) - Tardiveau, Pierre (20%) - Pasquiers, Stephane (5%): Discharges in porous foams and capillary tubes
Lit. 5 zázn.
In: 6th Central European Symposium on Plasma Chemistry : Scientific Program and Book Abstracts. - Padova : University Press, 2015. - S. 31. - ISBN 978-88-6938-045-7
[CESPC 2015 : Central European Symposium on Plasma Chemistry. 6th, Bressanone, 6.-10.9.2015]

AFE04 Machala, Zdenko [UKOMFKAFZM] (20%) - Tarabová, Barbora [UKOMFKAFZM] (20%) - Kovaľová, Zuzana (10%) - Kučerová, Katarína [UKOMFKAFZM] (10%) - Janda, Mário [UKOMFKAFZM] (10%) - Hensel, Karol [UKOMFKAFZM] (20%) - Tampieri, Francesco (3%) - Marotta,Ester (2%) - Paradisi, Cristina (2%) - Brun, P. (2%) - Martines, E. (1%): Plasma activated water: plasma-induced gas-phase and liquid-phase chemistry and applications in biomedicine and food processing
In: 7th Central European Symposium on Plasma Chemistry : Scientific Program and Book Abstracts. - Zagreb : Institiute of Physics, 2017. - S. 26. - ISBN 978-953-7666-16-3
[CESPC 2017 : Central European Symposium on Plasma Chemistry. 7th, Sveti Martin na Muri, 3.-4.9.2017]

AFE05 Machala, Zdenko [UKOMFKAFZM] (25%) - Tarabová, Barbora [UKOMFKAFZM] (15%) - Kučerová, Katarína [UKOMFKAFZM] (10%) - Sersenová, Dominika [UKOMFKAFZM] (10%) - Ndiffo Yemeli, Gervais Blondel [UKOMFKAFZM] (5%) - Žilková, Andrea (5%) - Henselová, Mária[UKOPRBFR] (5%) - Tampieri, Francesco (5%) - Marotta, Ester (5%) - Paradisi, Cristina (5%) - Hensel, Karol [UKOMFKAFZM] (10%): Water activated by air discharges for applications in biodecontamination, agriculture and food processing
Lit.: 2 zázn.

In: 11th International Symposium on Non-Thermal/Thermal Plasma Pollution Control Technology and Sustainable Energy. - Padova : Padova University Press, 2018. - S. 32-32. - ISBN 978-88-6938-129-4
[ISNTP 2018 : International Symposium on Non-Thermal/Thermal Plasma Pollution Control Technology and Sustainable Energy. 11, Montegrotto Terme, 01.07.2018 - 05.07.2018]

AFE06 Machala, Zdenko [UKOMFKAFZM] (100%) : Dominant effects of RONS in air plasma biomedical treatments and the roles of electric field and radiation [elektronický dokument]
Lit.: 1 zázn.
In: 8th Central European Symposium on Plasma Chemistry [elektronický dokument]. - Ľubľana : Plasmadis, 2019. - S. 9-10 [USB-key]. - ISBN 978-961-94716-0-9
[CESPC 2019 : Central European Symposium on Plasma Chemistry. 8, Gozd Martuljek, 26.05.2019 - 30.05.2019]
URL: http://158.195.84.197/rrkkiidd/1baf36d4che25g.pdf

AFG Abstrakty príspevkov zo zahraničných vedeckých konferencií

AFG16 Machala, Zdenko [UKOMFKAFZM] (30%) - Tarabová, Barbora [UKOMFKAFZM] (20%) - Kučerová, Katarína [UKOMFKAFZM] (20%) - Kovaľová, Zuzana [UKOMFKAFZMd] (20%) - Hensel, Karol [UKOMFKAFZM] (10%): Reactive oxygen and nitrogen species in water induced byair plasmas and their biomedical effects
Lit. 4 zázn.
In: Electrical Discharges with Liquids for Future Applications. - [Lisbon] : [Universidade de Lisboa], 2014. - S. 11. - ISBN 978-989-20-4574-0
[COST Action TD1208 2014 : Electrical Discharges with Liquids for Future Applications : Annual Meeting. Lisbon, 10.-13.3.2014]
Ohlasy (1):
[o1] 2014 Abba, P. - Djepang, S. - Laminsi, S. - Brisset, J. L. - Hnatiuc, E. - Hnatiuc, B.: Pollution abatement of tannery workshop effluents. In: International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2014. Los Alamitos : IEEE Computer Society, 2014, S. 1066-1069 - SCI ; SCOPUS

AGI Správy o vyriešených vedeckovýskumných úlohách

AGI04 - Morvová, Marcela [UKOMFKAFZM] - Morva, Imrich [UKOMFKAFZM] - Machala, Zdenko [UKOMFKAFZM] - Košútová, Zuzana - Janda, Mário [UKOMFKAFZM]: Ultrazvukové a korónové prístroje pre liečbu a prevenciu respiračných chorôb a pre čistenie ovzdušia v uzavretých priestoroch : Hodnotiaca správa etapy E3) projektu č. 96-513-IV-04 zmluvne riešená na MFF UK za celú dobu riešenia (1996-1998). - Bratislava : [s.n.], 1999. - 56 s.

AGI05 - Kruger, Charles H. - Laux, Christophe O. - Machala, Zdenko [UKOMFKAFZM] - Candler, Graham V.: Scaled-up nonequilibrium air plasmas : Final technical report for the period: June 1, 2001-January 31, 2004. - Stanford : [s.n.], 2004. - 86 s.
Lit. 35 zázn.

AGI06 - Machala, Zdenko [UKOMFKAFZM] (99%) - Boďa, Ján [UKOMFKAMS] (1%): DC electric discharges in air for chemical and biological decontamination : Grant closure. - Brussels : [s.n.], 2008. - 5 s.

AGI07 - Machala, Zdenko [UKOMFKAFZM] (35%) - Hensel, Karol [UKOMFKAFZM] (10%) - Morvová, Marcela [UKOMFKAFZM] (10%) - Lukáč, Peter [UKOMFKEFs] (2%) - Hajossy, Rudolf [UKOMFKAFZM] (2%) - Foltin, Viktor [UKOMFKEF] (2%) - Košinár, Ivan [UKOMFAFZM] (2%) - Zahoran, Miroslav [UKOMFKEF] (2%) - Martišovitš, Viktor [UKOMFKAFZM] (10%) - Janda, Mário [UKOMFKAFZM] (10%) - Fógelová, Blanka [UKOMFKAFZMd] (1%) - Jedlovský, Igor [UKOMFKJBd] (14%): Štúdium fyzikálnych vlastností jednosmerných elektrických výbojov priatmosférickom tlaku nad vodnou hladinou a testovanie ich plazmochemických a biologických účinkov : Záverečná správa za celú dobu riešenie projektu. - Bratislava : [s.n.], 2008. - 166 s.

AGI08 - Machala, Zdenko [UKOMFKAFZM] (40%) - Hensel, Karol [UKOMFKAFZM] (7%) - Martišovitš, Viktor [UKOMFKAFZM] (15%) - Jedlovský, Igor [UKOMFKJBd] (20%) - Janda, Mário [UKOMFKAFZM] (4%) - Šikurová, Libuša [UKOMFKJFB] (10%) - Košinár, Ivan [UKOMFAFZM](2%) - Hajossy, Rudolf [UKOMFKAFZM] (2%): Atmosférické elektrické výboje pre bio-dekontamináciu : Záverečná správa o dosiahnutých výsledkoch za celú dobu riešenie projektu. - Bratislava : [s.n.], 2008. - 171 s.

AGI09 - Machala, Zdenko [UKOMFKAFZM] (100%): Štúdium fyzikálnych vlastností jednosmerných elektrických.výbojov pri atmosférickom tlaku nad vodnou hladinou a testovanie.ich plazmochemických a biologických účinkov : Záverečná správa za celé obdobieriešenia projektu. - Bratislava : [s.n.], 2008. - 11 s.

AGI10 - Hensel, Karol [UKOMFKAFZM] (50%) - Machala, Zdenko [UKOMFKAFZM] (20%) - Tardiveau, Pierre - Janda, Mário [UKOMFKAFZM] (20%): Mikrovýboje v poréznych dielektrických materiáloch, ich vlastnosti a aplikácia na čistenie výfukových plynov : Záverečnáspráva o riešení projektu. - Bratislava : [s.n.], 2008. - 168 s.

AGI11 - Machala, Zdenko [UKOMFKAFZM] (100%): Scaled-up nonequilibrium air plasmas : Comprehensive final report. - [Bratislava] : [s.n.], 2009. - 39 s.
Lit. 22 zázn., 46 obr.

AGI12 - Hensel, Karol [UKOMFKAFZM] (50%) - Machala, Zdenko [UKOMFKAFZM] (15%) - Morvová, Marcela [UKOMFKAFZM] (5%) - Morva, Imrich [UKOMFKAFZM] (3%) - Košinár, Ivan [UKOMFAFZM] (2%) - Janda, Mário [UKOMFKAFZM] (20%) - Jedlovský, Igor [UKOMFKJBd] (5%):Plazmou asistovaná katalýza pomocou mikrovýbojov v poréznych materiáloch, štúdium ich fyzikálnych vlastnostía použitie na čistenie výfukových plynov : Záverečná správa o riešení projektu. - Bratislava : [s.n.], 2009. - 125 s.

AGI13 - Machala, Zdenko [UKOMFKAFZM] (13%) - Hensel, Karol [UKOMFKAFZM] (13%) - Jedlovský, Igor [UKOMFKJBd] (13%) - Šikurová, Libuša [UKOMFKJFB] (13%) - Martišovitš, Viktor [UKOMFKAFZM] (12%) - Morvová, Marcela [UKOMFKAFZM] (12%) - Leštinská, Lenka[UKOMFKAFZMd] (12%) - Pongrác, Branislav [UKOMFKAFZMd] (12%): Bio-dekontaminácia pomocou atmosférických elektrických výbojov : Záverečná správa za celé obdobie riešenia projektu. - Bratislava : [s.n.], 2010. - 14 s.

AGI14 - Machala, Zdenko [UKOMFKAFZM] (100%): Scaled-up nonequilibrium air plasmas generated by DC and pulsed discharges : Comprehensive final report. - [Bratislava] : [s.n.], 2010. - 54 s.
Lit. 33 zázn.
Ohlasy (1):
[o1] 2011 Gutsol, A. - Rabinovich, A. - Fridman, A.: Combustion-assisted plasma in fuel conversion. In: Journal of Physics D - Applied Physics, Vol. 44, No. 27, 2011, Art. No. 274001 - SCI ; SCOPUS

AGI15 - Machala, Zdenko [UKOMFKAFZM] (50%) - Laux, Christophe O. (50%): Pokročilá optická diagnostika a aplikácie jednosmerných a pulzných výbojov vo vzduchu : Záverečná správa o riešení projektu v rámci bilaterálnej dohody. - Bratislava : [s.n.], 2012.- 6 s., príl. 6 s.

AGI16 - Machala, Zdenko [UKOMFKAFZM] (50%) - Lukeš, Petr (50%): Biologická a chemická dekontaminácia vody pomocou elektrických výbojov : Záverečná správa o riešení projektu v rámci bilaterálnej dohody. - Bratislava : [s.n.], 2012. - 5 s., príl. 5 s.

AGI17 - Machala, Zdenko [UKOMFKAFZM] (7%) - Šikurová, Libuša [UKOMFKJFB] (7%) - Hensel, Karol [UKOMFKAFZM] (7%) - Janda, Mário [UKOMFKAFZM] (7%) - Martišovitš, Viktor [UKOMFKAFZM] (7%) - Polčic, Peter (7%) - Mentel, Marek (7%) - Laco, Juraj (7%) - Foltinová, Janka (7%) - Bevízová, Katarína (7%) - Foltin, Viktor (6 %) - Jedlovský, Igor [UKOMFKJBd] (6 %) - Leštinská, Lenka [UKOMFKAFZMd] (6 %) - Pongrác, Branislav [UKOMFKAFZMd] (6 %) - Zvarík, Milan [UKOMFKJFB] (6 %): Mechanizmy interakcie plazmy sbunkou pre bio-dekontamináciu a medicínske aplikácie : Záverečná správa za celé obdobie riešenia projektu. - Bratislava : [s.n.], 2014. - 14 s.

AGI18 - Machala, Zdenko [UKOMFKAFZM] (100%): Štúdium interakcie plazmy s bunkou pre bio-dekontamináciu a medicínske aplikácie : Záverečná správa o riešení projektu. - Bratislava : [s.n.], 2017. - 12 s., príl. 23 s.

BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných)

BEE04 Hensel, Karol [UKOMFKAFZM] (25%) - Janda, Mário [UKOMFKAFZM] (10%) - Machala, Zdenko [UKOMFKAFZM] (10%) - Martišovitš, Viktor [UKOMFKAFZM] (5%) - Adda, P. (10%) - Le Delliou, Pierre (15%) - Tardiveau, Pierre (20%) - Pasquiers, Stephane (5%):Discharge propagation in ceramic foams and capillary tubes
Popis urobený 9.12.2015. - Pozvaná prednáška
Lit. 11 zázn.
In: ICPIG 2015 [elektronický zdroj]. - [Iasi] : [Alexandru Ioan Cruza University], 2015. - Art. No. TL-22 [2 s.] [online]
[ICPIG 2015 : International Conference of Phenomena in Ionized Gases. 32nd, Iasi, 26.-31.7.2015]
URL: http://www.icpig2015.net/ShowPage/?PageName=ScientificProgramme
URL: http://www.icpig2015.net/Content/Papers/Topical_Invited_Speakers/TL22.pdf
URL: https://www.plasma.uaic.ro/icpig2015/ShowPage/index_PageName_ScientificProgramme.html

BEE09 Topala, Ionut (5%) - Hensel, Karol [UKOMFKAFZM] (20%) - Kučerová, Katarína [UKOMFKAFZM] (20%) - Sano, Kaori (1%) - Tarabová, Barbora [UKOMFKAFZM] (20%) - Janda, Mário [UKOMFKAFZM] (9%) - Mihai, Cosmin Teodor (1%) - Gorgan, L. (1%) - Jijie, Roxana(1%) - Ciorpac, Mitica (1%) - Pohoata, Valentin (1%) - Machala, Zdenko [UKOMFKAFZM] (20%): Cell exposure to atmospheric pressure plasmas: modification of cell cycle and molecular structure
Popis urobený 9.12.2015. - Pozvaná prednáška
Lit. 9 zázn., 4 obr.
In: ICPIG 2015 [elektronický zdroj]. - [Iasi] : [Alexandru Ioan Cruza University], 2015. - Art. No. SpS2.3 [4 s.] [online]
[ICPIG 2015 : International Conference of Phenomena in Ionized Gases. 32nd, Iasi, 26.-31.7.2015]

URL: http://www.icpig2015.net/ShowPage/?PageName=ScientificProgramme
URL: http://www.icpig2015.net/Content/Papers/SpS2/SpS2_3.pdf
URL: https://www.plasma.uaic.ro/icpig2015/ShowPage/index_PageName_ScientificProgramme.html

BEE12 Machala, Zdenko [UKOMFKAFZM] (20%) - Tarabová, Barbora [UKOMFKAFZM] (20%) - Kovaľová, Zuzana [UKOMFKAFZMd] (10%) - Kučerová, Katarína [UKOMFKAFZM] (20%) - Janda, Mário [UKOMFKAFZM] (10%) - Hensel, Karol [UKOMFKAFZM] (20%): Water activated bynon-thermal air plasma discharges for bio-decontamination and bio-medical effects
Pozvaná prednáška
Lit. 11 zázn., 1 obr.
In: ISPlasma 2016/IC-PLANTS 2016 [elektronický zdroj]. - Nagoya : The Japan Society of Applied Physics, 2016. - Art. No. 08aB01I [2 s.] [CD-ROM]
[ISPlasma 2016 : International Symposium on Advanced Plasma Science and its Applications for Nitrides and Nanomaterials. 8th, Nagoya, 6.-10.3.2016]
[IC-PLANTS 2016 : International Conference on Plasma-Nano Technology and Science. 9th, Nagoya, 6.-10.3.2016]

BEE13 Machala, Zdenko [UKOMFKAFZM] (20%) - Tarabová, Barbora [UKOMFKAFZM] (20%) - Hensel, Karol [UKOMFKAFZM] (20%) - Kučerová, Katarína [UKOMFKAFZM] (20%) - Kovaľová, Zuzana [UKOMFKAFZMd] (8%) - Janda, Mário [UKOMFKAFZM] (10%) - Lukeš, Petr (2%): Plasmaactivated water: effects for biomedical and agriculture/food applications and challenges of RONS detection
Pozvaná prednáška
In: 6th International Conference on Advanced Plasma Technologies / Workshop on Industrial Application of Plasma Solutions. - Ljubljana : Plasmadis, 2016. - S. 39-40
[ICAPT 2016 : International Conference on Advanced Plasma Technologies. 6th, Siem Reap, 11.-15.12.2016]
[Industrial Application of Plasma Solutions : Workshop. Siem Reap, 15.-18.12.2016]

BEE22 Machala, Zdenko [UKOMFKAFZM] (25%) - Tarabová, Barbora [UKOMFKAFZM] (5%) - Kučerová, Katarína [UKOMFKAFZM] (15%) - Henselová, Mária [UKOPRBFR] (10%) - Žilková, Andrea (5%) - Tampieri, Francesco (5%) - Marotta, Ester (5%) - Paradisi, Cristina (5%) -Krewing, Marco (5%) - Bandow, Julia E. (5%) - Hensel, Karol [UKOMFKAFZM] (15%): Cold air plasma and plasma activated water for fruit juice preservation and plant growth
Pozvaná prednáška
Lit.: 4 zázn.
In: 2nd International Workshop On Plasma Agriculture (IWOPA-2). - Nagoya : Meijo University, 2018. - S. 6-6
[IWOPA 2018 : International Workshop on Plasma Agriculture. 2, Takayama, 09.03.2018 - 11.03.2018]

BEE23 Janda, Mário [UKOMFKAFZM] (60%) - Hensel, Karol [UKOMFKAFZM] (20%) - Machala, Zdenko [UKOMFKAFZM] (20%): Chemical kinetic modelling of NOx formation in Transient Spark discharge [elektronický dokument]
Pozvaná prednáška. - UKOVO2020
Lit.: 7 zázn.
In: 34 ICPIG and ICRP-10 [elektronický dokument]. - Sapporo : [s.n.], 2019. - S. [1-2], art. no. TL-03 [USB-key]
[ICPIG 2019 : International Conference of Phenomena in Ionized Gases. 34, Sapporo, 14.07.2019 - 19.07.2019]
[ICRP 2019 : International Conference on Reactive Plasmas. 10, Sapporo, 14.07.2019 - 19.07.2019]
URL: http://icpig2019.qe.eng.hokudai.ac.jp/proceedings_papers.html

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

BFA07 Janda, Mário [UKOMFKAFZM] (40%) - Martišovitš, Viktor [UKOMFKAFZM] (20%) - Hensel, Karol [UKOMFKAFZM] (20%) - Machala, Zdenko [UKOMFKAFZM] (20%): Time-resolved optical diagnostic of self-pulsing nanosecond discharges for biomedical applications
Pozvany príspevok
Lit. 3 zázn.
In: 6th International Workshop and Summer School on Plasma Physics. - Sofia : University of Sofia, 2014. - S. 27
[IWSSPP 2014 : International Workshop and Summer School on Plasma Physics. 6th, Kiten, 30.6.-6.7.2014]

BFA10 Machala, Zdenko [UKOMFKAFZM] (100%) : Identification of RONS on water induced by air plasmas and their biomedical effects
Pozvaná prednáška
Lit. 8 zázn.
In: 5th International Conference on Plasma Medicine (ICPM5). - Osaka : Osaka University, 2014. - Art. No. 22-BI03, 1 s.
[ICPM 2014 : International Conference on Plasma Medicine. 5th, Nara, 18.-23.5.2014]

BFA15 Kovaľová, Zuzana [UKOMFKAFZMd] (40%) - Tarabová, Barbora [UKOMFKAFZM] (20%) - Hensel, Karol [UKOMFKAFZM] (20%) - Machala, Zdenko [UKOMFKAFZM] (20%): Decontamination of Bacillus cereus spores and streptococci biofilms on plastic surfaces with DC andpulsed corona discharges

Pozvaná prednáška
Lit. 4 zázn.,1 obr.
In: From Basics Knowledge to Industry. - Toulouse : [Université de Toulouse], 2015. - nestr. [1 s.]
[Electroporation Workshop 2015. Toulouse, 14.-15.4.2015]

BFA18 Kovaľová, Zuzana [UKOMFKAFZMd] (30%) - Kučerová, Katarína [UKOMFKAFZM] (20%) - Hensel, Karol [UKOMFKAFZM] (20%) - Machala, Zdenko [UKOMFKAFZM] (30%): Decontamination of Bacillus cereus spores and streptococci biofilms on plastic surfaces with DCand pulsed corona discharges
Pozvaná prednáška
Lit. 4 zázn., 1 obr.
In: Electroporation Workshop 2015 : From basic knowledge to industry. - Toulouse : Université Toulouse, 2015. - [nestr.], 1 s.
[Electroporation Workshop 2015 : From basic knowledge to industry. Toulouse, 14.-15.4.2015]

BFA27 Hensel, Karol [UKOMFKAFZM] (30%) - Kučerová, Katarína [UKOMFKAFZM] (10%) - Tarabová, Barbora [UKOMFKAFZM] (10%) - Sersenová, Dominika [UKOMFKAFZM] (10%) - Janda, Mário [UKOMFKAFZM] (10%) - Henselová, Mária [UKOPRBFR] (10%) - Machala, Zdenko[UKOMFKAFZM] (20%): Atmospheric air plasma discharges and plasma activated water for plasma medicine and agriculture [elektronický dokument]
Pozvaný príspevok
Lit.: 2 zázn.
In: 7th International Conference on Plasma Medicine [elektronický dokument]. - Philadephia : Drexel University, 2018. - S. 1-1, nestr. [online]
[ICPM 2018 : International Conference on Plasma Medicine. 7, Philadelphia, 17.06.2018 - 22.06.2018]
URL: http://icpm7.plasmainstitute.org/wp-content/uploads/2018/05/ICPM-7_Program_Book_of_Abstracts.pdf

BFA28 Machala, Zdenko [UKOMFKAFZM] (100%) : Air discharges and plasma activated water for applications in bio-decontamination, agriculture and food processing [elektronický dokument]
UKOVO2019. - Pozvaná prednáška
Lit.: 2 zázn.
In: MRS 2018: Fall Meeting and Exhibit [elektronický dokument] : Symposium BM06 : Plasma Processing and Monitoring for Bioengineering and Biomedical Engineering. - Warrendale, PA : Materials Research Society, 2018. - S. 229-230 [online]
[MRS Fall Meeting and Exhibit 2018. Boston, 25.11.2018 - 30.11.2018]
URL: https://www.mrs.org/fall-2018-symposium-sessions/symposium-sessions-detail?code=BM06
URL: https://www.mrs.org/docs/default-source/meetings-events/fall-meetings/2018/abstract-book.pdf?sfvrsn=421abc10_8

BFA29 Machala, Zdenko [UKOMFKAFZM] (40%) - Tarabová, Barbora [UKOMFKAFZM] (10%) - Kovaľová, Zuzana (10%) - Kučerová, Katarína [UKOMFKAFZM] (10%) - Janda, Mário [UKOMFKAFZM] (10%) - Polčic, Peter [UKOPRCBI] (10%) - Hensel, Karol [UKOMFKAFZM] (10%): PlasmaActivated Water: air plasma-induced gas-phase and liquid-phase reactive species for biomedical applications [elektronický dokument]
Pozvaná prednáška
Lit.: 6 zázn.
In: ISPlasma2018/IC-PLANTS2018 [elektronický dokument]. - Nagoya : Nagoya University, 2018. - S. 1-2, Art. No. 06pA16l [online]
[ISPlasma 2018 : Advanced Plasma Science and its Applications for Nitrides and Nanomaterials : Anniversary International Symposium. 10, Nagoya, 04.03.2018 - 08.03.2018]
URL: http://www.isplasma.jp/www2018/

BFA30 Machala, Zdenko [UKOMFKAFZM] (40%) - Tarabová, Barbora [UKOMFKAFZM] (40%) - Žilková, Andrea (16%) - Krewing, Marco (1%) - Tampieri, Francesco (1%) - Marotta, Ester (1%) - Paradisi, Cristina (1%): Cold air plasma for apple juice shelf-life extension[elektronický dokument]
Lit.: 4 zázn.
In: 7th International Conference on Plasma Medicine [elektronický dokument]. - Philadephia : Drexel University, 2018. - S. 1-1, nestr. [online]
[ICPM 2018 : International Conference on Plasma Medicine. 7, Philadelphia, 17.06.2018 - 22.06.2018]
URL: http://icpm7.plasmainstitute.org/wp-content/uploads/2018/05/ICPM-7_Program_Book_of_Abstracts.pdf
Ohlasy (1):
[o1] 2019 Starek, A. - Pawlat, J. - Chudzik, B. - Kwiatkowski, M. - Terebun, P. - Sagan, A. - Andrejko, D.: Evaluation of selected microbial and physicochemical parameters of fresh tomato juice after cold atmospheric pressure plasma treatmentduring refrigerated storage. In: Scientific Reports, Vol. 9, 2019, Art. No 8407 - SCI

BFA39 Machala, Zdenko [UKOMFKAFZM] (100%) : Chemistry of air plasma-water interaction and biomedical/agriculture applications of plasma activated water
Pozvaná prednáška: file:///C:/Users/galikova/Desktop/CREPČ-stiahnuté/Machala_Invited%20talk-%20ICAPST-2020-India-Machala.pdf

In: International Conference on Advances in Plasma Science and Technology (ICAPST-20). - Coimbatore : Sri Shakthi Institute of Engineering and Technology, 2020. - S. [1-1], nestr.
[ICAPST 2020 : International Conference on Advances in Plasma Science and Technology. 1, Coimbatore, 12.02.2020 - 14.02.2020]

BFB Abstrakty odborných prác z domácich podujatí (konferencie, ...)

BFB01 Machala, Zdenko [UKOMFKAFZM] (100%) : Elektrické výboje s vodou a ich biomedicínske aplikácie
Pozvaná prednáška
In: 23. konferencia slovenských fyzikov : zborník abstraktov. - Bratislava : Slovenská fyzikálna spoločnosť, 2018. - S. 10-10
[Konferencia slovenských fyzikov 2018. 23, Smolenice, 05.09.2018 - 08.09.2018]

DAI Dizertačné a habilitačné práce

DAI01 Machala, Zdenko [UKOMFKAFZM] (100%) : Les décharges électriques continues et transitoires, induites par streamer, sous pression atmosphérique, pour la destruction des composés organiques volatils (COV) = Kontinuálne a prechodové elektrické výbojeindukované streamerom, za atmosférického tlaku, na odstraňovanie prchavých organických látok (VOC) = Continuous and transient electrical discharges, streamer triggered, at atmospheric pressure, for the removal of Volatile Organic Compounds (VOC). - Paris: Université de Paris-Sud, 2000. - 312 s.
Doktorandská dizertačná práca (Dr.) - Université de Paris-Sud, Paris, 2000. - Doktorandská dizertačná práca (PhD.) - Univerzita Komenského, Bratislava, 2001
Lit. 206 zázn.
Ohlasy (6):
[o1] 2002 Hensel, K. - Hayashi, N. - Yamabe, C. - Morvova, M.: Japanese Journal of Applied Physics Part 1-Regular Papers Short Notes & Review Papers, Vol. 41, No. 1, 2002, s. 336-345 - SCI ; SCOPUS
[o3] 2002 Hensel, K.: Plasma chemical processes in positive DC corona discharge in N2-NO-CO2-O2-H2O mixtures. Saga City : Saga University, 2002, 121 s.
[o3] 2002 Vincent, A.: Conception et simulation d'un réacteur fil-cylindre décharge couronne avec barrire diélectrique adapté au traitement des oxydes d'azote dans des effluents marqués par un isotope. Paris VI : Université P. M. Curie, 2002,S. 89, 125
[o3] 2006 Janda, M.: The study of plasma induced chemistry in gaseous mixture N2 -CO2 -H2O. Innsbruck : Leopold Franzens University, 2006, 167 s.
[o1] 2007 Vincent-Randonnier, A. - Larigaldie, S. - Magre, P. - Sabel'nikov, V.: Plasma assisted combustion: effect of a coaxial DBD on a methane diffusion. In: Plasma Sources Science Technology, Vol. 16, No. 1, 2007, s. 149-160 - SCI ; SCOPUS
[o3] 2008 Vander Schelden, P.: FT-IR Study of Decomposition Processes of Volatile Organic Components by Atmospheric Plasma´s. Gent : Universiteit Gent, 2008, S. 193

DAI02 Machala, Zdenko [UKOMFKAFZM] (100%) : Jednosmerné, striedavé a mikrovlnné výboje vo vzduchu pri atmosférickom tlaku, ich diagnostika a environmentálne, biomedicínske a iné aplikácie. - Bratislava : [s.n.], 2008. - 16 s., 16 príloh
Habilitačná práca (Docent; Doc.) - Univerzita Komenského, Bratislava, 2008
Lit. 58 zázn.

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

EDJ01 Akishev, Yuri (40%) - Machala, Zdenko [UKOMFKAFZM] (50%) - Koval, Nikolay (10%): Preface: Special issue on recent developments in plasma sources and new plasma regimes
Lit.: 28 zázn.
In: Journal of Physics D. - Roč. 52, č. 13 (2019), s. 1-5, Art. No. 130301. - ISSN (print) 0022-3727
Registrované v: scopus
Registrované v: wos
Indikátor časopisu:
IF (JCR) 2018=2.829
Kvartil Q:
wos-jcr -- Q2 [Physics, applied] -- 2018
Ohlasy (3):
[o1] 2019 Brisset, A. - Gazeli, K. - Magne, L. - Pasquiers, S. - Jeanney, P. - Marode, E. - Tardiveau, P.: Modification of the electric field distribution in a diffuse streamer-induced discharge under extreme overvoltage. In: Plasma SourcesScience & Technology, Vol. 28, No. 5, 2019, Art. No. 055016 - SCI ; SCOPUS
[o1] 2020 Wang, Z. - Feng, C. - Gao, L. - Ding, H.: Influence of electrode geometry on the transport of OH radicals in an atmospheric pressure surface micro-discharge. In: Journal of Physics D-Applied Physics, Vol. 53, No. 25, 2020, Art. No.255202 - SCI ; SCOPUS

[o1] 2020 Wang, Z. - Feng, C. - Gao, L. - Ding, H.: The distribution of OH in surface micro-discharge with different electrode widths by laser-induced fluorescence. In: Journal of Instrumentation s, Vol. 15, No. 4, 2020, Art. No. C040332 - SCOPUS

FAI Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...)

FAI02 - Machala, Zdenko [UKOMFKAFZM] (34%) - Hensel, Karol [UKOMFKAFZM] (33%) - Akishev, Yuri (33%): Plasma for Bio-decontamination, Medicine and Food Security. - Dordrecht : Springer, 2012. - 484 s. - (NATO Science for Peace and Security Series - A:Chemistry and Biology)
ISBN 978-94-007-28561-6
[Plasma for Bio-decontamination, Medicine and Food Security 2011 : NATO Advanced Research Workshop. Jasná, 15.-18.3.2011]
Ohlasy (46):
[o1] 2012 Jijie, R. - Pohoata, V. - Topala, I.: Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet. In: Applied Physics Letters, Vol. 101, No. 14, 2012, Art. No. 144103 - SCI
[o1] 2012 Petrovic, Z. L. - Puac, N. - Malovic, G. - Lazovic, S. - Maletic, D. - Miletic, M. - Mojsilovic, S. - Milenkovic, P. - Bugarski, D.: Application of non-equilibrium plasmas in medicine. In: Journal of the Serbian Chemical Society,Vol. 77, No. 12, 2012, s. 1689-1699 - SCI
[o1] 2012 Topala, I. - Dumitrascu, N. - Dimitriu, D. G.: Experimental and theoretical investigations of dielectric-barrier plasma jet in helium. In: IEEE Transactions On Plasma Science, Vol. 40, No. 11, 2012, s. 2811-2816 - SCI ; SCOPUS
[o3] 2012 Topala, I. - Natuta, A. V. - Jijie, R. - Pohoata, V. - Dumitrascu, N.: Temporal kineticcs of light emission from plasma at the interface with animal tissues. In: 4th Internatinal Confernece on Plasma Medicine. Greifswald : ISPM, 2012, S. 189
[o3] 2012 Topala, I. - Jijie, R. - Rusu, B. G. - Pohoata, V. - Dumitrascu, N.: Structure-function relationships in the case of plasma modified proteins. In: ESCAMPIG 2012. Mulhouse : EPS, 2012, S. Art. No. 3
[o1] 2013 Bekeschus, S. - Masur, K. - Kolata, J. - Wende, K. - Schmidt, A. - Bundscherer, L. - Barton, A. - Kramer, A. - Broker, B. - Weltmann, K. D.: Human mononuclear cell survival and proliferation is modulated by cold atmospheric plasmajet. In: Plasma Processes and Polymers, Vol. 10, No. 8, 2013, s. 706-713 - SCI
[o1] 2013 Galaly, A. R. - Zahran, H. H.: Inactivation of bacteria using combined effects of magnetic field, low pressure and ultra low frequency plasma discharges (ULFP). In: 3rd ISESCO International Workshop and Conference on Nanotechnology. Bristol : IOP, 2013, Art. No. 012014 - CPCI-S
[o1] 2013 Teissie, J.: Was Zeus responsible for horizontal gene transfer A comment on "Lightning-triggered electroporation and electrofusion as possible contributors to natural horizontal gene transfer" by Tadej Kotnik. In: Physics of LifeReviews, Vol. 10, No. 3, 2013, s. 371-372 - SCI
[o1] 2014 Semyonov, A. P. - Baldanov, B. B. - Ranzhurov, T. V. - Norboev, C. N. - Namsaraev, B. B. - Dambaev, V. B. - Gomboeva, S. V. - Abidueva, L. R.: Influence of the low-temperature argon plasma of low-current high-voltage discharges onmicroorganisms. In: Applied Physics, No. 3, 2014, s. 47-50 - SCOPUS
[o1] 2014 Simek, M.: Optical diagnostics of streamer discharges in atmospheric gases. In: Journal of Physics D, Vol. 47, No. 46, 2014, Art. No. 46300 - SCI
[o1] 2015 Baldanov, B. B. - Semenov, A. P. - Ranzhurov, T. V. - Nikolaev, E. O. - Gomboeva, S. V.: Action of plasma jets of a low-current spark discharge on microorganisms (Escherichia coli). In: Technical Physics, Vol. 60, No. 11, 2015, s.1729-1731 - SCI ; SCOPUS
[o1] 2015 Hertwig, C. - Reineke, K. - Ehlbeck, J. - Erdogdu, B. - Rauh, C. - Schluter, O.: Impact of remote plasma treatment on natural microbial load and quality parameters of selected herbs and spices. In: Journal of Food Engineering, Vol.167, Part A, 2015, s. 12-17 - SCI
[o1] 2015 Semyonov, A. - Baldanov, B. - Ranzhurov, T. - Nikolayev, E. - Gomboyeva, S.: Development of microbicide equipment and research in pathogen inactivation by cold argon plasma. In: International Conference on Biomedical Engineering andComputational Technologies (SIBIRCON). New York : IEEE, 2015, S. 68-71 - SCI ; SCOPUS
[o1] 2016 Alshraiedeh, N. H. - Higginbotham, S. - Flynn, P. B. - Alkawareek, M. Y. - Tunney, M. M. - Gorman, S. P. - Graham, W. G. - Gilmore, B. F.: Eradication and phenotypic tolerance of Burkholderia cenocepacia biofilms exposed toatmospheric pressure non-thermal plasma. In: International Journal of Antimicrobial Agents, Vol. 47, No. 6, 2016, s. 446-450 - SCI ; SCOPUS
[o1] 2016 Cheng, K. Y. - Yang, Y. W. - Lin, Z. H. - Liao, G. C. - Liu, C. T. - Wu, J. S.: A cold planar nitrogen-based atmospheric-pressure dielectric barrier discharge jet with enhanced UV emission and radical generation using shortelectrodes. In: IEEE Transactions on Plasma Science, Vol. 44, No. 12, 2016, s. 3183-3188 - SCI ; SCOPUS
[o1] 2016 Naidis, G. V. - Sosnin, E. A. - Panarin, V. A. - Skakun, V. S. - Tarasenko, V. F.: Dynamics and structure of nonthermal atmospheric-pressure air plasma jets: experiment and simulation. In: IEEE Transactions on Plasma Science, Vol.44, No. 12, 2016, s. 3249-3253 - SCI ; SCOPUS
[o1] 2016 Raguse, M. - Fiebrandt, M. - Denis, B. - Stapelmann, K. - Eichenberger, P. - Driks, A. - Eaton, P. - Awakowicz, P. - Moeller, R.: Understanding of the importance of the spore coat structure and pigmentation in the Bacillus subtilisspore resistance to low-pressure plasma sterilization. In: Journal of Physics D, Vol. 49, No. 28, 2016, Art. No. 285401 - SCI

[o1] 2016 Sakudo, A.: Current progress in advanced research into the inactivation of viruses by gas plasma: Influenza virus inactivation by nitrogen gas plasma. In: Gas plasma sterilization in microbiology: Theory, applications, pitfalls andnew perspectives. Wymondham : Caister Academic Press, 2016, S. 103-110 - SCI
[o1] 2016 Raguse. A. - Panarin, V. A. - Skakun, V. S. - Tarasenko, V. F. - Pechenitsin, D. S. - Kuznetsov, V. S.: Source of an atmospheric-pressure plasma jet formed in air or nitrogen under barrier discharge excitation. In: Technical Physics,Vol. 61, No. 5, 2016, s. 789-792 - SCI
[o3] 2017 Čeledová, V.: Biocidal Effects of Non-thermal Atmospheric Pressure Plasma. Prague : Czech Technical University, 2017, S. 90
[o1] 2017 Mededovic Thagard, S. - Stratton, G. R. - Dai, F. - Bellona, C. L. - Holsen, T. M. - Bohl, D. G. - Paek, E. - Dickenson, E. R. V.: Plasma-based water treatment: development of a general mechanistic model to estimate the treatabilityof different types of contaminants. In: Journal of Physics D, Vol. 50, No. 1, 2017, Art. No. 014003 - SCI ; SCOPUS
[o1] 2017 Sosnin, E. A. - Panarin, V. A. - Skakun, V. S. - Baksht, E. K. - Tarasenko, V. F.: Dynamics of apokamp-type atmospheric pressure plasma jets. In: European Physical Journal D, Vol. 71, No. 2, 2017, Art. No. 25 - SCOPUS
[o1] 2017 Thagard, S. M. - Stratton, G. R. -Dai, F. - Bellona, C. L. - Holsen, T. M. - Bohl, D. G. - Paek, E. - Dickenson, E. R. V.: Plasma-based water treatment: development of a general mechanistic model to estimate the treatability ofdifferent types of contaminants. In: Journal of Physics D-Applied Physics, Vol. 50, No. 1, 2017, s. 1-13, Art. No. 14003 - SCI
[o1] 2017 Volkov, A. G. - Xu, K. G. - Kolobov, V. I.: Cold plasma interactions with plants: Morphing and movements of Venus flytrap and Mimosa pudica induced by argon plasma jet. In: Bioelectrochemistry, Vol. 118, 2017, s. 100-105 - SCI ;SCOPUS
[o1] 2018 Galaly, A. R. - Van Oost, G.: Fast inactivation of microbes and degradation of organic compounds dissolved in water by thermal plasma. In: Plasma Science & Technology, Vol. ? 20, No. 8, 2018, Art. No. 085504 - SCI ; SCOPUS
[o1] 2019 Balek, R. - Klenivskyi, M.: DC-driven atmospheric pressure pulsed discharge with volume-distributed filaments in a coaxial electrode system. In: Journal of Applied Physics, Vol. 126, No. 8, 2019, Art. No. 083301 - SCI ; SCOPUS
[o1] 2019 Estifaee, P. - Su, X. - Yannam, S. K. - Rogers, S. - Thagard, S. M.: Mechanism of E. coli inactivation by direct-in-liquid electrical discharge plasma in low conductivity solutions. In: Scientific Reports, Vol. 9, 2019, Art. No. 2326- SCI
[o1] 2019 Vankova, E. - Valkova, M. - Kasparova, P. - Masak, J. - Scholtz, V. - Khun, J. - Julak, J.: Prevention of biofilm re-development on Ti-6Al-4V alloy by cometary discharge with a metallic grid. In: Contributions to Plasma Physics, Vol.59, No. 2, 2019, s. 166-172 - SCI ; SCOPUS
[o3] 2020 Choudhury, B. - Portugal, S. - Johnson, J. - Roy, S.: Performance evaluation of fan and comb shaped plasma reactors for distribution of generated ozone in a confined space. In: AIAA Sci Tech Forum, No. 1165, 2020, s. 15
[o3] 2013 Niyonzima, S.: Collisions réactives dans les gaz d intér?t énergétique. Le Havre : Le Havre Universite, 2013, S. 127
[o3] 2012 Odic, E.: Guest Editor s Introduction to the Special Issue. In: International Journal of Plasma Environmental Science and Technology, Vol. 6, 2012, s. 85-86
[o3] 2017 Oliete, G. B.: Contribución a la generación de plasma frío mediante electrodos SMD y JET. Valencia : Polytechnic University of Valencia, 2017, S. 141
[o1] 2018 Puac, N. - Skoro, N. - Spasic, K. - Zivkovic, S. - Milutinovic, M. - Malovic, G. - Petrovic, Z .L.: Activity of catalase enzyme in Paulownia tomentosa seeds during the process of germination after treatments with low pressure plasmaand plasma activated water. In: Plasma Processes and Polymers, Vol. 15, No. 2, 2018, Art. No. e1700082 - SCI
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GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG02 Hensel, Karol [UKOMFKAFZM] - Machala, Zdenko [UKOMFKAFZM]: Microdischarges in porous ceramics and atmospheric DC discharges for environmental and biological applications [elektronický zdroj]. - [S.l.] : [s.n.], 2006. - 1 s. [online]
Popis urobený 16.1.2007. - Pozvaná prednáška na L.P.G.P. Séminaires Université de Paris-Sud, Paris 30.11.2006
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GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií

GII04 Machala, Zdenko [UKOMFKAFZM] (34%) - Hamaguchi, Satoshi (33%) - Fridman, Gregory (33%): Preface: Sixth International Conference on Plasma Medicine (ICPM-6) [elektronický dokument]
In: Plasma Medicine [elektronický dokument]. - Roč. 7, č. 2 (2017), s. 5-6 [print]. - ISSN (print) 1947-5764
Registrované v: scopus

GII05 Machala, Zdenko [UKOMFKAFZM] (50%) - Pavlovich, Matthew J. (50%): Editorial : A new phase in applied biology
Lit.: 2 zázn.
In: Trends in Biotechnology : Plasma Biotechnology. - Roč. 36, č. 6 (2018), s. 577-578. - ISSN (print) 0167-7799
Registrované v: wos
Registrované v: scopus
Indikátor časopisu:
IF (JCR) 2018=13.747
Kvartil Q:
wos-jcr -- Q1 [Biotechnology & applied microbiology] -- 2018
Ohlasy (1):
[o1] 2019 Volkov, A. G. - Xu, K. G. - Kolobov, V. I.: Plasma-generated reactive oxygen and nitrogen species can lead to closure, locking and constriction of the Dionaea muscipula Ellis trap. In: Journal of the Royal Society Interface, Vol. 16,No. 150, 2019, Art. No. 20180713 - SCI ; SCOPUS

Štatistika kategórií (Záznamov spolu: 312):
ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách (1)
ACC Kapitoly vo vysokoškolských učebniciach vydané v zahraničných vydavateľstvách (1)
ADC Vedecké práce v zahraničných karentovaných časopisoch (50)
ADD Vedecké práce v domácich karentovaných časopisoch (1)
ADE Vedecké práce v ostatných zahraničných časopisoch (3)
ADF Vedecké práce v ostatných domácich časopisoch (1)
ADM Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (2)
AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách (2)
AEF Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch, monografiách (2)
AFA Publikované pozvané príspevky na zahraničných vedeckých konferenciách (1)
AFB Publikované pozvané príspevky na domácich vedeckých konferenciách (4)
AFC Publikované príspevky na zahraničných vedeckých konferenciách (52)
AFD Publikované príspevky na domácich vedeckých konferenciách (21)
AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií (6)
AFG Abstrakty príspevkov zo zahraničných vedeckých konferencií (26)
AFH Abstrakty príspevkov z domácich vedeckých konferencií (25)
AFK Postery zo zahraničných konferencií (4)
AFL Postery z domácich konferencií (4)
AGI Správy o vyriešených vedeckovýskumných úlohách (18)
BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných) (26)

BEF Odborné práce v domácich zborníkoch (konferenčných aj nekonferenčných) (1)
BFA Abstrakty odborných prác zo zahraničných podujatí (konferencie, ...) (39)
BFB Abstrakty odborných prác z domácich podujatí (konferencie, ...) (1)
DAI Dizertačné a habilitačné práce (2)
EDJ Prehľadové práce, odborné práce, preklady noriem; odborné preklady v časopisoch, zborníkoch (1)
FAI Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy) (3)
GAI Správy (8)
GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup (2)
GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií (5)

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[o1] Citácie v zahraničných publikáciách registrované v citačných indexoch (1635)
[o2] Citácie v domácich publikáciách registrované v citačných indexoch (2)
[o3] Citácie v zahraničných publikáciách neregistrované v citačných indexoch (167)
[o4] Citácie v domácich publikáciách neregistrované v citačných indexoch (8)

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