LISTA DE LUCRĂRI
Conf. univ. dr. Alina Silvia CHIPER

A. Articole publicate în reviste indexate ISI

1. **A. S. Chiper**, G. Borcia, *Stable Surface Modification by Cold Atmospheric-Pressure Plasma: Comparative Study on Cellulose-Based and Synthetic Polymers*, Polymers, vol. 15, nr. 20, 4172 (20pp) (2023). https://doi.org/10.3390/polym15204172; ***prim autor***

2. C Lazarou C Anastassiou, I Topala, **A S Chiper**, I Mihaila, V Pohoata and G E Georghiou, *The effect of Penning ionization reactions on the evolution of He with O_2 admixtures plasma jets*, J. Phys. D: Appl. Phys. 56 065203 (13pp) (2023).
https://doi.org/10.1088/1361-6463/acb1c1; ***#autor corespondent***

3. **A. S. Chiper**, *Tailoring the working gas flow to improve the surface modification of plasma-treated polymers*, Materials Letters 305, 130832 (2021).
https://doi.org/10.1016/j.matlet.2021.130832; ***prim autor***

4. **A. S. Chiper**, *Systematic investigation of the pulsed barrier discharges in flowing and stationary gas: From differences to similarities*, Physics of Plasmas 28 (5), 053511 (16pp) (2021);
https://doi.org/10.1063/5.0043349; ***prim autor***

5. C. Lazarou, **A. S. Chiper**, C. Anastassiou, I. Topala, I. Mihaila, V. Pohoata, G. E. Georghiou, *Numerical simulation of the effect of water admixtures on the evolution of a helium/dry air discharge*, Journal of Physics D – Applied Physics, vol. 52 (19), art. no. 195203 (22pp) (2019).
10.1088/1361-6463/AB06CD; ***#autor corespondent***

6. C. Lazarou, C. Anastassiou, I. Topala, **A. S. Chiper**, I. Mihaila, V. Pohoata and G. E. Georghiou, *Numerical simulation of a capillary helium and helium-oxygen atmospheric pressure plasma jet: propagation dynamics and interaction with dielectric*, Plasma Sources Sci. Technol, vol. 27 (10), art. no. 105007 (25pp) (2018).
10.1088/1361-6595/AADEB8; ***#autor corespondent***

7. C. Lazarou, T. Belmonte, **A. S. Chiper**, G. E. Georghiou, *Numerical modelling of the effect of dry air traces in a helium parallel plate dielectric barrier discharge*, Plasma Sources Sci. Technol. Vol. 25 (5), art. no. 055023 (20pp) (2016).
10.1088/0963-0252/25/5/055023

8. C. Lazarou, D. Koukounis, **A. S. Chiper**, C. Costin, I. Topala, G. E. Georghiou, *Numerical modeling of the effect of the level of nitrogen impurities in a helium parallel plate dielectric barrier discharge*, Plasma Sources Sci. Technol., vol 24 (3), art. no. 035012 (14pp) (2015). 10.1088/0963-0252/24/3/035012

9. I. G. Buda, C. Irimiea, C. Agheorghiesei, **and A. S. Chiper**, *Pulsed Atmospheric-Pressure DBD Plasma Produced in Small-Diameter Tubes*, IEEE Transactions on Plasma Science, vol. 43 (2), pp.572-579 (8pp) (2015), 10.1109/TPS.2015.2388494; ***#ultim autor și autor corespondent***

10. **A. S. Chiper**, G. Popa, *Temporally, spatially, and spectrally resolved barrier discharge produced in trapped helium gas at atmospheric pressure*, Journal of Applied Physics, vol. 113, art. no. 213302 (8pp) (2013), 10.1063/1.4809764; ***prim autor***

11. **A. Chiper**, G. Borcia, *Argon Versus Helium Dielectric Barrier Discharge for Surface Modification of Polypropylene and Poly(methyl methacrylate) Films*, Plasma Chem Plasma Process, vol. 33 (3), pp 553–568 (2013), 10.1007/S11090-013-9442-Z; ***prim autor***

12. **A. S. Chiper**, W. Chen, O. Mejlholm, P. Dalgaard and E. Stamate, *Atmospheric pressure plasma produced inside of a closed package by dielectric barrier discharge in Ar/CO_2 for bacterial inactivation of biological samples*, Plasma Sources Sci. Technol., vol. 20, art. no. 025008 (10pp) (2011), 10.1088/0963-0252/20/2/025008; ***prim autor***

13. **A. S. Chiper**, G. B Rusu, C. Vitelaru, I. Mihaila, G. Popa, *A comparative study of helium and argon DBD plasmas suitable for thermosensitive materials processing*, Romanian Journal of Physics, vol. 56, pp. 126-131 (2011); ***prim autor***

14. **A. S. Chiper**, B. G. Rusu, G. Popa, *Influence of the Dielectric Surface Nonhomogeneities on the Dynamic of the Pulsed DBD Plasma*, IEEE Transaction on Plasma Science, vol. 39 (11), pp. 2200, 2011, 10.1109/TPS.2011.2150764; ***prim autor***

15. **A. S. Chiper**, G. Popa, *Temporal and Spatial Resolved Emission Spectroscopy of a Pulsed Atmospheric-Pressure DBD in Helium With Impurities*, IEEE Transaction on Plasma Science, vol. 39 (11), pp. 2196 (2011), 10.1109/TPS.2011.2163322; ***prim autor***

16. **A. S. Chiper**, N. Blin-Simiand, M. Heninger, H. Mestdagh, P. Boissel, F. Jorand, J.Lemaire, J. Leprovost, S. Pasquiers, G. Popa, C. Postel, *Detailed Characterization of 2-Heptanone Conversion by Dielectric Barrier Discharge in N_2 and N_2/O_2 Mixtures*, J. Phys. Chem. A, vol. 114 (1), pp. 397–407 (2010), 10.1021/JP907295D; ***prim autor***

17. **A. S. Chiper**, A. V. Nastuta, G. B. Rusu and G. Popa, *On surface elementary processes and polymer surface modifications induced by double pulsed dielectric barrier discharge*, Nuclear Instruments and Methods in Physics Research B, vol. 267 (2), pp. 313–316 (2009). 10.1016/J.NIMB.2008.10.051; ***prim autor***

18. **A. S. Chiper**, G. B. Rusu, A. V. Nastuta and G. Popa, *On the Discharge Parameters of a Glow-Mode DBD at Medium and Atmospheric Pressure*, IEEE Transactions on Plasma Science, vol. 37 (10), Part 2, pp. 2098–2102 (2009), 10.1109/TPS.2009.2028427; ***prim autor***

19. R. Cazan, G. Borcia, **A. Chiper**, G. Popa, *Time-Space Resolved Distribution of oxygen metastable atoms in axially symmetrical atmospheric pressure barrier discharge*, Plasma Sources Sci. Technol. 17, 035020 (8pp), 2008, 10.1088/0963-0252/17/3/035020

20. **A. S. Chiper**, R. Cazan, G. Popa, *On the Secondary Discharge of an Atmospheric Pressure Pulsed DBD in He with Impurities*, IEEE Transactions on Plasma Science, vol. 36 (5), pp. 2824 – 2830 (2008), 10.1109/TPS.2008.2001425; ***prim autor***

21. **A. S. Chiper**, A.V. Nastuta, G. B. Rusu, V. Pohoata, R. Cazan, G. Popa, *Optical diagnosis of double discharges in pulsed DBD with different barrier materials*, Journal of Optoelectronics and Advanced Materials, vol. 10 (8), pp. 1976 – 1980 (2008); ***prim autor***

22. A.V. Nastuta, G.B. Rusu, I. Topala, **A. S. Chiper**, G. Popa, *Surface modifications of polymer induced by atmospheric DBD plasma in different configurations*, Journal of Optoelectronics and Advanced Materials, vol.10 (8), pp. 2038–2042 (2008)

23. **A. S. Chiper**, A. Nastuta, G. Rusu and G. Popa, *Electrical characterisation of a double DBD in He at atmospheric pressure used for surface treatments*, Journal of Optoelectronics and Advanced Materials, vol. 9 (9), pp. 2926–2931 (2007); ***prim autor***

24. G. Borcia, **A. Chiper**, I. Rusu, *Using a He+N_2 dielectric barrier discharge for the modification of polymer surface properties*, Plasma Sources Science and Technology, vol. 15, pp. 849–857 (2006), 10.1088/0963-0252/15/4/031

25. **A. S. Chiper**, N. Blin-Simiand, F. Jorand, S. Pasquiers, G. Popa, C. Postel, *Influence of water vapour on acetaldehyde removal efficiency by DBD*, Journal of Optoelectronics and Advanced Materials, vol. 8 (1), pp. 208 – 211 (2006); ***prim autor***

26. **A. S. Chiper**, N. Apetroaei, G. Popa, *Correlation between surface modifications induced on PET/TIO_2 sample by DBD plasma produced in He/N_2 gas mixture and plasma parameters*, Journal of Optoelectronics and Advanced Materials, vol.7 (5), pp. 2561–2569 (2005); ***prim autor***

27. **A. S. Chiper**, V. Aniţa, C. Agheorghiesei, V. Pohoaţă, Maria Aniţa and G. Popa**,** *Spectroscopic diagnostics for a DBD plasma in He/Air and He/N_2 gas mixtures***,** Plasma Process. Polym., vol. 1 (1), pp. 57–62 (2004).
10.1002/PPAP.200400003; ***prim autor***

B. Articole publicate *in extenso* în reviste neindexate ISI

1. **A. S. Chiper**, G. Borcia, M. Dobromir and G.Popa, *He and Ar dielectric barrier discharge for surface modification of polymers*, Journal of Advanced Research in Physics, Vol 2 (2) 021104 (2011), "Alexandru Ioan Cuza" University Press, ISSN 2067-0451.
2. A. V. Manole, V. Melnig, R. Zonda, C. Văcăreanu, **S. A. Chiper**, *In vitro evaluation of platelet adhesion on polyurethane films and membranes*, Romanian Journal of Biophysics, 18(1), pp. 29-37 (2008), Editura Academiei Române, ISSN 1220-515X; CNCSIS (code: 615): B+ ; Indexed in IndexCopernicus ICV 5.24
3. **A.S. Chiper**, N. Apetroaei and G.Popa, *Surface modifications induced on the PET/TiO_2 sample by DBD produced in He and He/N_2 gas mixture,* Analele Ştiinţifice ale Univ. „Al. I. Cuza" din Iaşi – Fizica Plasmei şi Spectroscopie, tom. L, p.127-134 (2004), ISSN 1453-0759

C. Cărţi şi capitole în cărţi, manuale, îndrumare de laborator

1. **Alina Silvia Chiper**, *„Aplicații tehnologice ale fizicii plasmei. Elemente introductive. Lucrări de laborator"*, Editura Universității „Alexandru Ioan Cuza" din Iași, 2023, ISBN: 978-606-714-810-7, 142 pagini.
https://www.editura.uaic.ro/produse/domenii/stiinte_exacte/aplicatii-tehnologice-ale-fizicii-plasmei-elemente-introductive-lucrari-de-laborator-1967/1

2. **Alina Silvia Chiper**, *„Biomecanică. Lucrări de laborator"*, Editura Universității „Alexandru Ioan Cuza" din Iași, 2024, ISBN: 978-606-714-865-7, 208 pagini.
https://www.editura.uaic.ro/produse/domenii/stiinte_exacte/biomecanica-lucrari-de-laborator-2028/1

3. **A. Chiper**, C. Borcia, I. Topală, G. Borcia *„Fizica atomului şi moleculei. Lucrări de laborator"*, (G. Borcia - coordinator), Editura Universităţii „Alexandru Ioan Cuza" Iaşi, 2015, ISBN: 978-606-714-090-3, 232 pagini.
https://www.editura.uaic.ro/produse/domenii/stiinte_exacte/fizica-atomului-si-moleculei-lucrari-de-laborator-1335/1

D. Articole publicate *in extenso* în volumele conferinţelor internaţionale de specialitate

D1. Articole *in extenso* publicate în Proceedings-uri indexate BDI

1. G. B. Rusu, A. V. Nastuta, **A. S. Chiper** and G. Popa, *On the discharge parameters of a glow mode DBD,* Proceedings - International Symposium on Discharges and Electrical Insulation in Vacuum, ISDEIV Volume 2, 2008, Article number 4676875, Pages 619-622; 23rd International Symposium on Discharges and Electrical Insulation in Vacuum, 23rd ISDEIV; Bucharest; Romania; 15 September 2008 through 19 September 2008; Category numberCFP08430-PRT; Code 74846; ISSN: 1093-2941 (**indexat SCOPUS**)

D2. Articole *in extenso* publicate în Proceedings-uri neindexate

1. **A. S. Chiper**, M. E. Dorneanu, M. Dobromir, D. Buteica, C. M. Talasman, G. Borcia - *Surface modification of natural and synthetic polymers induced by pulsed atmospheric pressure plasma*, 32nd International Conference on Phenomena in Ionized Gases (ICPIG), July 26-31, 2015, Iași, Romania, 3 pages: https://www.plasma.uaic.ro/icpig2015/Content/Posters/P3.24.pdf
2. **A. S. Chiper** and G. Popa, *On the similarities between nitrogen impurities and trapped gas effects under the atmospheric pulsed barrier discharge in helium*, 32nd International Conference on Phenomena in Ionized Gases (ICPIG), July 26-31, 2015, Iași, Romania, 2 pages: https://www.plasma.uaic.ro/icpig2015/Content/Posters/P4.43.pdf
3. **A. S. Chiper**, G. Popa*, Space-Time Behaviour of Reactive Excited Species in Pulsed DBD Plasma Produced Inside of a Closed Container,* 11th International Conference on Global Research and Education (inter-ACADEMIA), August 26-30, 2012, Budapesta, Ungaria, *Proceedings 11th International Conference on Global Research and Education in Engineers for Better Life,* pp. 331-337; oral presentaion
4. C. Irimiea, **S. A. Chiper**, E.Stamate, *N_2 Dissociation in a matrix ECR plasma source,* Proceedings of International Plasma Symposium on Dry Process (DPS), November 15-16, 2012, Tokyo, Japan, ISBN: 978-4-86348-289-0, pp. 69-70
5. **A. S. Chiper,** G. Popa, *On the discharge parameters of a pulsed DBD plasma produced inside of a closed polymer container*, 30th International Conference on Phenomena in Ionized Gases, August 28th – September 2nd 2011, Belfast, Northern Ireland, UK, cod lucrare: C10-288 (4 pages) http://mpserver.pst.qub.ac.uk/sites/icpig2011/288_C10_Chiper.pdf
6. G. Borcia, **A. S. Chiper**, I. Mihaila, C. Vitelaru and G. Popa, *Atmospheric-pressure dielectric barrier discharge in He and He+O_2 for surface modification of polymers*, 30th International Conference on Phenomena in Ionized Gases (ICPIG), August 28th – September 2nd 2011, Belfast, Northern Ireland, UK, cod poster: D13-300 (4 pages) http://mpserver.pst.qub.ac.uk/sites/icpig2011/300_D13_Chiper.pdf
7. **A. S. Chiper**, W. Chen and E. Stamate, *Diagnostics of DBD Plasma Produced Inside a Closed Package,* 19th International Symposium on Plasma Chemistry (ISPC), July 27-31, 2009, Bochum, Germany, 4 pages online: http://www.ispc-conference.org/ispcproc/papers/144.pdf, oral presentation
8. **A. S. Chiper**, W. Chen, O. Mejlholm, P. Dalgaard, E. Stamate, *DBD Plasma Produced in a Closed Container Used for Bacterial Inactivation*, Proceedings of International Plasma Symposium on Dry Process (DPS), September 24 - 25, 2009, Busan, Korea, p. 219-220, poster presentation
9. **A. S. Chiper**, V. Pohoata, A.V. Nastuta, G. Popa, *On the secondary discharge of an atmospheric pressure DBD driven by unipolar voltage pulses*, 19th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 15-19 July, 2008, Granada, Spain, 2 pp. on conference CD, Published by European Physical Society, ISBN: 2-914771-04-5, paper code: 3-36
10. **A. S. Chiper**, N. Blin-Simiand, H. Mestdagh, M. Heninger, F. Jorand, S. Pasquiers, G. Popa, *Influence of the oxygen percentage on 2-heptanone removal efficiency by DBD*, 19th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 15-19 July, 2008, Granada, Spain, 2 pp. on conference CD, Published by European Physical Society, ISBN: 2-914771-04-5, paper code: 1-08
11. S. Savy, N.Blin Simiand, F. Jorand, S. Pasquiers, C. Postel, **A. Chiper**, G. Popa, C. Dehon, M. Heninger, P. Boissel, J. Lemaire, H. Mestdagh, *By products issued from 2 heptanone conversion by DBD*, 19th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), July 15-19, 2008, Granada, Spain, 2 pp. on conference CD, Published by European Physical Society, ISBN: 2-914771-04-5, paper code: 1-03
12. **A. S. Chiper**, A. V. Nastuta, G. B. Rusu and G. Popa**,** *Influence of double pulsed DBD on the polymer surface properties,* The 7-th International Conference on Global Research and Education (inter-Academia), September 15 - 18, 2008, Pécs, Hungary, Proceedings – ISBN: 978-963-420-964-8, p. 208-215

13. **A. S. Chiper,** Radu Cazan, Gheorghe Popa, *Secondary discharge in a pulsed dielectric barrier discharge in He at atmospheric pressure*, Inter-Academia for Young Researchers Workshop, 6-13 February 2007, Hamamatsu, Japan, pp. 21-22, oral presentation

14. **A. S. Chiper**, R. Cazan, V. Pohoata and G. Popa, *Temporal and Spatial Evolution of the Reactive Species in a Pulsed-DBD in He*, XXVIII International Conference on Phenomena in Ionized Gases (ICPIG), July 15-20, 2007, Prague, Czech Republic, paper in extenso on CD – Proceedings of XXVIII ICPIG, published by Institute of Plasma Physics AS CR, ISBN 978-80-87026-01-4, pp. 1058-1061

15. **A. S. Chiper**, Radu Cazan, Gheorghe Popa, *Influence of the dielectric materials and gas type to the behaviour of double discharges in a pulsed-DBD at atmospheric pressur*e, 18th International Symposium on Plasma Chemistry (ISPC), August 26-31, 2007, Kyoto, Japan, 4 pages on conference CD, ISBN: 978-4-9903773-4-2, paper code: 27P-81,

16. R. Cazan, **A. Chiper**, G. Borcia and G. Popa, *Influence of the spatial distribution of reactive species on the surface modification of polymers by DBD*, 18th International Symposium on Plasma Chemistry (ISPC), August 26-31, 2007, Kyoto, Japan, 4 pages on conference CD, ISBN: 978-4-9903773-4-2, paper code: 28P-49

17. **A. S. Chiper**, I. Topala, V. Pohoata, G. B. Rusu, A. V. Nastuta, G. Popa, *Time-Space Distribution of the Excited Species in a double DBD in He*, The 2nd Inter-Academia for Young Researchers Workshop, September 26-30, 2007, Hamamatsu, Japan, Volume II, p. 712-720*,* oral presentation

18. **A. S. Chiper,** V. Pohoata**,**G. Popa, *Electrical and spectral diagnosis of the secondary discharge of the glow mode-DBD*, 18th Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), July 12-16, 2006, Lecce, Italy, Europhysics Conference Abstracts, published by European Physical Society, ISBN 2-914771-38-X, pp. 379-380

19. R. Cazan, **A. S. Chiper**, G. Popa, *Density of the oxygen metastable atoms in a DBD produced in He and He/O_2 mixture,* Proceedings of the 5-th annual International Conference on Global Research and Education (inter-Academia), September 25 – 28, 2006, Iasi, Romania, Analele Stiintifice ale universitatii "Al. I. Cuza", Supliment 2006, ISSN 1453-0759, pp.623-632

20. **A. S. Chiper**, C. Costin, V. Pohoaţă, C. Agheorghiesei, G. Popa, *On the peak current of a glow mode barrier discharge*, 4th International Conference on Global Research and Education, Inter-Academia 2005, September 19-22, 2005, Wuppertal, Germany, Proceedings, vol. 1, pp. 259-268

21. **A. S. Chiper**, N. Blin-Simiand, F. Jorand, S. Pasquiers, G. Popa, C. Postel, *Influence of the applied voltage type on the removal of gaseous acetaldehyde by DBD*, Proceedings of the 17th International Symposium on Plasma Chemistry (ISPC), August 7-12, 2005, Toronto, Canada, 6 pages on conference CD

22. **A. S. Chiper**, C. Costin, V. Pohoaţă, C. Agheorghiesei , G. Popa, *On increasing time of the peak current for a glow mode barrier discharge*, Proceedings of 27th International Conference on Phenomena in Ionised Gases (ICPIG), July 18-22, 2005, Eindhoven, The Netherlands, 4 pages on CD, ISSN 0963-0252, paper code: 04-395

23. G. Borcia, I. Rusu, **A. S. Chiper**, G. Popa, *Surface modification of polymers using He+N_2 DBD*, Proceedings of 27^{h} International Conference on Phenomena in Ionised Gases, July 18-22, 2005, Eindhoven (ICPIG), The Netherlands, 4 pages on CD, ISSN 0963-0252, paper code: 10-169.

24. **A. S. Chiper**, N. Blin-Simiand, N. Dumitraşcu, F. Jorand, S. Pasquiers, G. Popa, C. Postel, *Characterisation of a dielectric barrier discharge in cylindrical geometry for physico chemical reactions*, Proceedings of the XVth International Conference on Gas Discharges and their Applications, Toulouse, France, September 5-10, 2004, vol. 1, pp. 299-302, oral prezentation

25. **A. Chiper**, V. Anita, C. Agheorghiesei, V. Pohoaţă, Maria Anita and G. Popa, *Spectral diagnostics for a DBD plasma in air and He/N_2 gas mixture***,** Proceedings of the 16th International Symposium on Plasma Chemistry**,** June 22-27, 2003, Taormina, Italy, 6 pages on conference CD, ISSN 1093-3611

26. M. Toma, Ioana-Alexandra Rusu, **A.S. Paraschivescu**, *Investigations on Nonlinear Behavior of a dc glow discharge plasma,* Proceedings of the 16th Europhyisics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), 14-18 July, 2002, Grenoble, France, ISSN 0963-0252, pp. 235-237

E. Lucrări prezentate la conferinţe internaţionale, publicate în rezumat

1. C. Lazarou, L. Wang, A. Nikiforov, C. Leys, C. Anastassiou, I. Topala, **A. Chiper**, I. Mihaila, V.Pohoata, P. Vogel, A. Knodel, B. López, J. Reyes, A. Molina-Díaz, J. Franzke, G. Georghiou, *Understanding the evolution of a He and He/O_2 capillary plasma jet*, XXXIV International Conference on Phenomena in Ionized Gases (XXXIV ICPIG) and the 10th International Conference on Reactive Plasmas (ICRP-10), Joint Conference, July 14-19, 2019, Sapporo, Hokkaido, Japan, poster presentation (PO16PM-049)
2. C. Lazarou, C. Anastassiou, I. Topala, **A. Chiper**, I. Mihaila, V. Pohoata, G. Georghiou, *On the Plasma bullet shape of He and He/O_2 plasma jet devices and interaction with dielectric surface*, DPG Spring Meeting München, Germany, March 17 - 22, 2019 (P 4.6)
3. I. Topala, **A. S. Chiper**, V. Pohoata, I. Mihaila, C. Anastassioua, C. Lazarou, G.E. Georghiou, *On the Penning processes in atmospheric pressure plasma jet in helium with oxygen impurities*, XVIIIth International Conference on Plasma Physics and Application, June 20 – 22, 2019, Iasi, Romania (O-06)
4. C. Anastassiou, C. Lazarou, I. Topala, I. Mihaila, **A. S. Chiper**, V. Pohoata, G.E. Georghiou, *Capillary He and He-O_2 plasma jet simulation and experimental data*, 7th International Conference on Plasma Medicine, June 17-22, 2018, Philadelphia, SUA, poster presentation (PO-59).
5. C. Lazarou, C. Anastassiou, I. Topala, I. Mihaila, **A. S. Chiper**, V. Pohoata, G.E. Georghiou, *Numerical modelling of the effect of water admixtures in a helium/air parallel plate dielectric barrier discharge*, E urophysics Conference on the Atomic and Molecular Physics of Ionized Gases (ESCAMPIG), July 17-21, 2018, Glasgow, Scotland, poster presentation (P116).
6. B. Hodoroaba, D. Ciubotaru, B. G. Rusu, **A. Chiper**, V. Pohoata, I. Mihaila and I. Topala, *Morphological and spectral features of interstellar carbon dust analogues deposited in high power regime DBD*, XXXIII ICPIG, July 9-14, 2017, Estoril/Lisbon, Portugal, Conference Procedings - pp. 348
7. D. Ciubotaru, B. Hodoroaba, I. Mihaila, V. Pohoata, **A. S. Chiper** and I. Topala, *Interstellar carbon dust analogs: recent developments and synthesis by low pressure and atmospheric pressure plasma techniques, 16th* International Conference on Global Research and Education (inter-ACADEMIA 2017), September 25-28, 2017, Iasi, Romania, Book of Abstracts: iAY.08
8. C B. Hodoroaba, D. Ciubotaru, **A. S. Chiper**, V. Pohoata, I. Mihaila, **I. Topala,** *Deposition of interstellar carbon dust analogs using barrier discharge driven by nanosecond high voltage pulses*, 17th International Conference on Plasma Physics and Applications, June 15 – 20, 2017, Magurele, Bucharest, Romania, Conference Procedings – pp. 51
9. C. Lazarou, **A. S. Chiper**, C. Anastassiou, V. Pohoata, I. Mihaila, I. Topala and G. E. Georghiou, *Numerical and experimental investigation of the effect of N_2 and O_2 admixtures in a helium dielectric barrier discharge*, 17th International Conference on Plasma Physics and Applications, June 15 – 20, 2017, Magurele, Bucharest, Romania, Conference Procedings - pp. 66
10. C. Anastassiou, C. Lazaro, **A. S. Chiper**, V. Pohoata, I. Mihaila, I. Topala and G. E. Georghiou, *Understanding the bullet evolution and its interaction with dielectrics in a capillary helium plasma jet*, 17th International Conference on Plasma Physics and Applications, June 15 – 20, 2017, Magurele, Bucharest, Romania, Conference Procedings - pp. 35
11. **A. S. Chiper** and G. Popa, *Pulsed DBD plasma produced inside of a closed package,* 10th International Conference on Global Research and Education (inter-Academia), September 26-29, 2011, Sucevița, Romania, Book of Abstracts pp. 72, oral presentation and poster

12. **A. S. Chiper**, C. Vitelaru, C. Irimiea and G. Popa, *On the Reactive Species produced by Pulsed-DBD in Helium with impurities*, TIM 11 Physics Conference, November 24-27, 2011, Timişoara, Romania, Abstract Book of the Physics Conference TIM 11, p. 132

13. **A. S. Chiper**, C. Costin, C. Grecea, G. Popa, *Glow mode barrier discharge investigation by absorrption and ICCD imaging*, 9th International Balkan Workshop on Applied Physics (IBWAP), July 7-9, 2008, Constanta, Romania, invited lecture

14. **A. S. Chiper**, V. Pohoata, R. Cazan, A. V. Nastuta, G. B. Rusu and G. Popa, *Fast imaging of double discharges in a pulsed DBD at atmospheric pressure*, Third International Workshop and Summer School on Plasma Physics, June 30 - July 5, 2008, Kiten, Bulgaria, pp. 44

15. **A. S. Chiper**, G. B. Rusu, A. V. Nastuta and G. Popa, *Influence of the polymer film position on the DBD treatment efficiency,* Third International Workshop and Summer School on Plasma Physics, June 30 - July 5, 2008, Kiten, Bulgaria, pp. 57

16. **A. S. Chiper,** A. V. Nastuta, G. B. Rusu, G. Popa, *On the surface elementary processes and polymer surface modifications induced by double pulsed DBD*, 4th Conference on Elementary Processes in Atomic Systems Cluj-Napoca, Romania, June 18-20, 2008, Book of Abstracts, ISBN: 978-973-647-596-2, pp.103

17. G. Popa, G. Borcia, **A. Chiper**, *Low temperature plasma systems used for fluid treatment*, ECO-NET Meeting, Modern Techniques in Atmospheric Physics and Chemistry, May 2 – 4, 2007, University of Szeged, Hungary

18. R. Cazan, **A. Chiper**, G. Borcia, G. Popa, *Tunable diode laser absorption spectrometry*, ECO-NET Meeting, Modern Techniques in Atmospheric Physics and Chemistry, May 2 – 4, 2007, University of Szeged, Hungary

19. **A. S. Chiper**, I. Topala, S. Pasquiers, G. Popa, *The secondary discharge behaviour in different discharge configurations of a pulsed-DBD at atmospheric pressure***,** 8th International Balkan Workshop on Applied Physics (IBWAP), July 5-7th, 2007, Constanta, Romania**,** p. 146, poster presentation

20. R. Cazan, G. Borcia, **A. Chiper** and G. Popa,*Time-Space Distribution of Oxygen Metastable Atoms in an Axial Symmetrical Atmospheric Pressure Barrier Discharge*, 8th International Balkan Workshop on Applied Physics (IBWAP), July 5-7th, 2007, Constanta, Romania, p. 144 , oral presentation

21. G. B. Rusu, A. V. Nastuta, I. Topala, **A. S. Chiper** and G. Popa, *On the PET+TiO_2 surface modifications induced by atmospheric DBD plasma treatments in different configurations*, 8th International Balkan Workshop on Applied Physics (IBWAP), July 5-7th, 2007, Constanta, Romania, p. 152, poster presentation

22. **A. S. Chiper,** I. Topala, R. Cazan and G. Popa*, Optical diagnosis of the double discharge of an atmospheric pressure pulsed DBD with different types of barriers*, 14th International Conference on Plasma Physics and Application (CPPA), September 14-18, 2007, Brasov, Romania, pp. 77-78, poster

23. A. V. Nastuta, G. B. Rusu, I. Topala**, A. S. Chiper** and G. Popa, *Surface Modifications of Polymers Induced by Atmospheric DBD Plasma in Different Configurations*, 14th International Conference on Plasma Physics and Application (CPPA), September 14-18, 2007, Brasov, Romania, pp. 118, poster

24. R. Cazan, **A. Chiper**, G. Popa **– „***Time-space distribution of the oxygen metastable atoms in a dielectric barrier discharge***",** 7th International Balkan Workshop on Applied Physics (IBWAP), July 5-7, 2006, Constanta, Romania, pp. 105

25. A. Nastuta, G. Rusu, I. Topala, **A. Chiper**, G. Popa, *Comparative Study of PET Surface Modifications by Atmospheric Plasma Treatment and UV Irradiation*, Conference on European Research in Cold Plasma Applications, 12-13 February, 2007, Iasi, Romania, ISBN 978-973-0-04933-6

26. **A. S. Chiper,** F. Jorand, S. Pasquiers, G. Popa, C. Postel, *Removal of VOC by Dielectric Barrier Discharge,* ECOLE D'ETE Physico-chimie de l'atmosphère: des expériences de laboratoire aux campagnes de terrain Université "Al. I. Cuza", July 2 – 14, 2006, Iasi, Romania

27. **A. S. Chiper**, N. Blin-Simiand, F. Jorand, S. Pasquiers, G. Popa, C. Postel, *Influence of water vapour on acetaldehyde removal efficiency by DBD*, 6th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, July 5-7, 2005, pp. 95

28. G. Borcia**,** I. A. Rusu, **A. S. Chiper**, G. Popa**,** *Modification of polymer surface properties using He+N_2 dielectric barrier***,** 6th International Balkan Workshop on Applied Physics (IBWAP), Constanta, Romania, July 5-7, 2005, pp. 99

F. Lucrări prezentate la conferinţe naţionale şi publicate în rezumat

1. **A. Chiper**, G. Popa, *Electrical characterization of a non-equilibrium plasma produced inside a closed container,* Conferinţa Naţională de Fizică (CNF), Septemer 23-25, 2010, Iaşi, Romania, poster

2. **A. S. Chiper,** G. Popa, *Influence of the nitrogen percentage and the pulse width on a glow mode He+N_2 DBD*, XIIIth Conference on Plasma Physics and Applications (CPPA), Iasi, Romania, October 27- 29, 2005, pp.56, poster

3. G. Borcia, N. Dumitraşcu**, A. S. Chiper**, G. Popa, *Surface Functionalization of Polymers Using Atmospheric Pressure Discharges*, XIIIth Conceference on Plasma Physics and Applications (CPPA), Iasi, Romania, October 27- 29, 2005, pp. 16

4. **A. S. Chiper**, N. Apetroaei, G. *Popa, On the polymer surface treatment by DBD in He+N_2 gas mixture*, Conferinta Nationala de Fizica (CNF), Bucharest, September 13-16, 2005, poster

5. **A. S. Chiper**, N. Blin-Simiand, F. Jorand, S. Pasquiers, G. Popa, C. Postel, *Removal of gaseous acetaldehyde by DBD*, Workshop on Fundamental and Applied Research in Physics (FARPhys), October 2004, Iasi, Romania, p. 49-50

6. **A. S. Chiper,** N. Apetroaei and G.Popa, *Surface modifications induced on the PET/TiO_2 sample by DBD produced in He and He/N_2 gas mixture*, XII Conference on Plasma Physics and Application (CPPA), Iasi, Romania, September 1-3, 2003, pp. 72, poster

7. M. Toma**, A. Paraschivescu**, Anisoara Morminches, *Discharge current characteristics as an "electrical method*" for glow discharge plasma diagnosis, Conferinta Nationala de Fizica (CNF), September 18-20, 2001, Iasi, Romania, p.166, poster

8. M. Toma, Ioana-Alexandra Rusu, **A. Paraschivescu**, *DL Low Temperature plasma sources in croised E x B fields*, Conferinta Nationala de Fizica (CNF), September 18-20, 2001, Iasi, Romania, p.165, poster

9. M. Toma, Ioana-Alexandra Rusu, V. Pohoata, **A. Paraschivescu**, *About the dependence of the electron drift velocity on the axial electric field in a positive column*, Conferinta Nationala de Fizica (CNF), September 18-20, 2001, Iasi, Romnia, p. 156, poster

10. M. Toma, **A. Paraschivescu**, V. Pohoata, *Effects of secondary electron emission on metallic electrode potential*, Conferinta Nationala de Fizica (CNF), September 21-23, 2000, Constanta, Romania, p. 78, poster

11. O. Baltag, M. Gheorghiu, **A. Paraschivescu**, G. Popa, D. Costandache, *High tension generator for dielectric barrier discharge*, XIth Conference on Plasma Physics and Applications (CPPA), September 6-8, 2001, Constanta, Romania, pp. 180-181, poster

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