

INFORMAȚII PERSONALE



Alina Silvia CHIPER

Universitatea „Alexandru Ioan Cuza” din Iași, Facultatea de Fizică, Centrul de Cercetări Avansate în Fizica Plasmei din Iași - IPARC, 700506 Iași, Romania

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Genul: F | Data nașterii: 12/06/1975 | Naționalitatea: Română

EXPERIENȚA PROFESIONALĂ

Oct. 2022 – prezent

Oct. 2009 – Sept. 2022

Oct. 2004 – Sept. 2009

Conferențiar universitar

Lector universitar

Preparator universitar

Universitatea „Alexandru Ioan Cuza” din Iași, Blvd. Carol I, nr. 11, Iași 700506 (www.uaic.ro)

Activități și responsabilități:

- Activitate didactică cu studenții din programele de studii de licență, master și doctorat
- Coordonare de lucrări de licență și disertație (*13 lucrări licență și 33 lucrări disertație finalizate*)
- Activitate de cercetare în fizica plasmei și aplicații

Tipul de activitate: Educație și Cercetare

Iulie 2010 – Martie 2013

Cercetător post-doctoral

Universitatea „Alexandru Ioan Cuza” din Iași, Blvd. Carol I, nr. 11, Iași 700506 (www.uaic.ro)

- Activități de cercetare în cadrul proiectului POSDRU/89/1.5/S/49944, Titlul: *Dezvoltarea capacității de inovare și creșterea impactului cercetării prin programe post-doctorale*

Tipul de activitate: Cercetare în fizica plasmei și aplicații. Titlul proiectului individual de cercetare: *Studiul plasmelor de neechilibru produse în interiorul unor containere închise, de diferite forme și dimensiuni. Aplicații.*

Oct. 2006 – Sept. 2008

Cercetător post-doctoral

Universitatea „Alexandru Ioan Cuza” din Iași, Blvd. Carol I, nr. 11, Iași 700506 (www.uaic.ro)

- Activități de cercetare în cadrul proiectului CEEX post-doc. nr. 5918/2006, Titlul: *Dezvoltarea de tehnici și metode pentru diagnoza plasmei în regim tranzitoriu*

Tipul de activitate: Cercetare în fizica plasmei și aplicații: *Diagnoza plasmei la presiune atmosferică utilizată în tratamente de suprafață*

EDUCAȚIE ȘI FORMARE

Aprilie 2025

Dr. Habil. în Fizică

(Ordinul M.E.C. nr. 3906 / 23.04.2025)

Universitatea „Alexandru Ioan Cuza” din Iași

- Titlul tezei de abilitare: *„Plasme de ne-echilibru la presiune atmosferică. Diagnoză și aplicații”*

Nov. 2000 – Nov. 2005

Diplomă de Doctor în Fizică

(seria E, nr. 3064; Ordinul M.E.C. nr. 3824 / 03.05.2006)

Universitatea „Alexandru Ioan Cuza” din Iași

- Fizica Plasmei, Titlul tezei de doctorat: *Contribuții la studiul tratamentelor de suprafață în plasma descărcărilor barieră*; Coordonator Prof. Dr. Gheorghe Popa

Oct.1998 – Iunie 2000

Diplomă de Master în Fizica Plasmei

(seria B, nr. 889)

Universitatea „Alexandru Ioan Cuza” din Iași

- Fizica Plasmei, Titlul disertației: *Interacțiunea plasmei cu suprafața solidă*

Oct. 1994 – Iunie 1998

Diplomă de Licență în Fizică

(seria R, nr. 18589)

Universitatea „Alexandru Ioan Cuza” din Iași

- Specializarea: Fizică

Sept. 1990 – Iunie 1994

Diplomă de Bacalaureat

(seria L, nr. 30509)

Liceul Teoretic "Nicolae Bălcescu", Brăila, România

- Profil: Matematică – Fizică

18 – 28 Iunie 2023

Mobilitate de predare CEEPUS (CIII-AT-0063)

29 Iunie – 2 Iulie 2023

Mobilitate de predare și formare ERASMUS+ KA 131-HED-000063703

University of Innsbruck, Institute for Ion Physics and Applied Physics, Technikerstr. 25/3, 6020 Innsbruck, Austria

Tema - CEEPUS: *The physics, diagnosis and applications of novel atmospheric-pressure low-temperature plasmas*

Tema - ERASMUS: *Atmospheric plasma physics and its applications*

1 – 30 Dec. 2014

Mobilitate de predare CEEPUS (CIII-AT-0063)

12 – 24 Aug. 2014

Mobilitate de predare LLP - ERASMUS

University of Innsbruck, Institute for Ion Physics and Applied Physics, Technikerstr. 25/3, 6020 Innsbruck, Austria

- Tema - CEEPUS: *Non-thermal Atmospheric - Pressure Plasmas and their Applications*
- Tema - ERASMUS: *Atmospheric - Pressure Plasma Physics*

Iulie – Sept. 2009

Cercetător invitat

Sept. – Nov. 2008

Risø DTU, Optics and Plasma Research Department, Technical University of Denmark, Frederiksborgvej 399, Roskilde – 4000, Denmark

Sept.– Nov. 2007

- *Atmospheric pressure plasma produced inside of closed packages used for bacterial inactivation*
- *Optical diagnostics and optimization of dielectric barrier discharges and micro discharges*

Apr. 2006 – Iun. 2006

Bursa ONBSS (finanțată de Guvernul României) - obținută prin competiție

5 – 22 Dec. 2007

Mobilități Brâncuși

9 – 22 Dec. 2008

Laboratoire de Physique des Gaz et des Plasmas, Université Paris-Sud, Bat. 210, 15 rue G Clémenceau, 91405 Orsay Cedex, Paris, France

- *Volatile organic compounds decomposition (2-heptanone) by dielectric barrier discharge in air and nitrogen.*
- *Properties and diagnosis of the atmospheric plasma discharges. Volatile organic compounds decomposition by atmospheric plasma*

Oct. 2003 – Martie 2004

Bursa Erasmus

Laboratoire de Physique des Gaz et des Plasmas, Université Paris-Sud, Bat. 210, 15 rue G Clémenceau, 91405 Orsay Cedex, Paris, France

- *Acetaldehyde decomposition by a.c. dielectric barrier discharge in dry and humid air.*

**COMPETENȚE
PROFESIONALE**
Activitatea de cercetare

- Domenii de competență: Fizica plasmelor la presiune atmosferică, Diagnoza plasmelor de ne-echilibru, Generarea și optimizarea plasmelor la presiune atmosferică pentru aplicații precum: protejarea mediului înconjurător, tratamente de suprafață și inactivare biologică; Chimia plasmelor

Publicații științifice

- 27 articole științifice cotate ISI (18 ca prim autor și 4 ca autor corespondent; 9 publicate în reviste ISI din quartila Q1, iar 8 în reviste ISI din quartila Q2)

Prezentări- Conferințe

- 55 de contribuții științifice la conferințe internaționale (dintre care 27 proceedings-uri, 1 lecție invitată, 7 prezentări orale) și 11 participări la conferințe naționale

Citări

- peste 560 citări în articole științifice cotate ISI (excluzând auto-citările), 23.15 citări / articol
- h (Hirsh) index: 15 (Web of Science);

Proiecte de cercetare

- Director a două granturi de cercetare:
 - o Director grant CNCSIS, Programe anuale pentru tineri - Tip AT, cod: 159/2007, Titlul: *Studiul mecanismului de formare a descărcării secundare în sisteme DBD în pulsuri, la presiune atmosferică*; finanțator: Consiliul National al Cercetării Științifice din Învățământul Superior -CNCSIS, perioada: 2007-2008, suma totală: 160 000 Lei
 - o Director grant CNCSIS, tip Tineri Doctoranzi-TD, cod: 353/2005, Titlul: "Diagnoza plasmei descărcărilor cu barieră dielectrică folosite în tratarea suprafețelor polimerice"; finanțator: Consiliul National al Cercetării Științifice din Învățământul Superior - CNCSIS, 2004 - 2005, suma totală: 5 000 RON

Indicatori CNATDCU

- Membru în alte 15 granturi (dintre care 2 internaționale)
- Indicatori CNATDCU: A=2.299, I=4.615; P=10.468; C=137.272
(pentru profesor: A≥ 2; I≥4; P≥4; C≥40)

Activitatea didactică

Cursuri

- Cursuri (licență): Aplicații tehnologice ale fizicii plasmei (2009 – 2015; 2017 – 2021; 2023–2024); Fizica și tehnica vidului (2016; 2022); Conversia și stocarea energiei (2022; 2024); Fizică generală - pentru studenți străini (2004 - 2005).
- Cursuri (master): Probleme actuale ale fizicii plasmei (*parțial – 2018 și 2020*); Biocompatibilitate și biomateriale (2021); Principii fizice de funcționare a dispozitivelor utilizate în fizioterapie (2020); Tehnici moderne utilizate în recuperarea medicală (2021-2024)

Seminarii

- Seminarii (licență): Fizica atomului și moleculei (2008 – 2010; 2021 – 2022), Fizica atomului (2008).

Laboratoare

- Laboratoare (licență): Aplicații tehnologice ale fizicii plasmei (2009 - 2015; 2017 - 2021; 2024), Fizica atomului (2009 – 2020), Fizica moleculei (2015 – 2020), Fizica atomului și moleculei (2009 – 2011; 2021-2023); Conversia și stocarea energiei (2022; 2024); Fizica și tehnica vidului (2016 și 2022), Mecanică (2009 – 2010), Oscilații și unde (2008 – 2009), Optică (2004 – 2005), Fizică generală - mecanică și fizică moleculară (2005, 2009).
- Laboratoare (master): Probleme actuale ale fizicii plasmei (*parțial - 2018 și 2020*); Fizica materialelor II (polimeri) (2020), Fizica Polimerilor (2013 – 2016), Biomateriale și biocompatibilitate (2009 – 2013; 2021); Biomecanică (2011 – 2024), Principii fizice de funcționare a dispozitivelor utilizate în fizioterapie (2020); Tehnici moderne utilizate în recuperarea medicală (2021 – 2024), Elemente de structura materiei (2012 – 2018).

Cărți, manuale, îndrumare de laborator:

- Autor / co-autor a 4 cărți:
 - o **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;
 - o Lucel Sîrghi, Claudiu Costin, **Alina Silvia Chiper**, „Fizica și tehnica vidului. Lucrări de laborator”, Editura Universității „Alexandru Ioan Cuza” din Iași, 2024, ISBN: 978-606-714-905-0, 198 pagini
 - o **Alina Silvia Chiper**, „Biomecanică. Lucrări de laborator”, Editura Universității „Alexandru Ioan Cuza” din Iași, 2024, ISBN: 978-606-714-865-7, 208 pagini.
- **Alina Chiper**, Cătălin Borgia, Ionuț Topală, Gabriela Borgia (coordonator), „Fizica atomului și moleculei. Lucrări de laborator”, Editura Universității „Alexandru Ioan Cuza” din Iași, 2014, ISBN: 978-606-714-090-3, 232 pagini.

COMPETENTE PERSONALE

Competențe și aptitudini organizaționale/manageriale

- Director a două granturi de cercetare
- Expert - Evaluator UEFISCDI (competițiile 2016 și 2019)
- Referent științific la multiple jurnale cotate ISI: Scientific Reports, Plasma Sources Science and Technology, Journal of Physics D: Applied Physics; Physics of Plasmas; IEEE Transactions on Plasma Science; Plasma Science & Technology; Surface and Coatings Technology; Materials Research Express; Central European Journal of Physics; Physica Scripta, Sensors & Actuators: A. Physical; Journal of Optoelectronics and Advanced Materials

Competențe și aptitudini organizaționale/manageriale

- Membru în Comitetul Local de Organizare al conferințelor internaționale: ICPIG 2015; Inter-Academia 2017, 2011 și 2006; CPPA 2023, 2019, 2010 (secretar științific), 2005, 2003; Summer School - 2011: Plasma diagnostics by electrical probes and lasers.
- Membru în comitetul de organizare al manifestării locale European Researchers' Night 2013 - 2014 și 2018 - 2019.

Competențe dobândite la locul de muncă

Competențe și aptitudini tehnice: Tehnica ICCD de fotografiere ultra-rapidă; Tehnica spectroscopiei de emisie; Tehnica spectroscopiei de absorbție, folosind sisteme de diode-laser; Tehnici de analiză a suprafețelor: metoda unghiului de contact, analiză de spectre XPS și IR; Tehnica cromatografiei gazoase.

Competență digitală

Origin; Microsoft Office

Limba maternă

Româna

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleză	C1	C1	B2	B2	B2
Franceză	B2	B2	B1	B1	A2

Niveluri: A1/A2: Utilizator elementar - B1/B2: Utilizator independent - C1/C2: Utilizator experimentat
[Cadrul european comun de referință pentru limbi străine](#)

INFORMATII SUPLIMENTARE

- Web of Science: <https://www.webofscience.com/wos/author/record/C-1694-2012>
- ORCID iD: <http://orcid.org/0000-0003-2630-2907>
- BRAINMAP: <https://www.brainmap.ro/alina-silvia-chiper>
- Google Scholar: <https://scholar.google.ro/citations?user=2Ud3LRsAAAAJ&hl=ro>

ANEXE

- Lista de publicații

Data,

20 Mai 2025

Semnătura,

Conf. dr. habil. Alina Silvia CHIPER

LISTA DE LUCRĂRI

Conf. dr. habil. 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 O₂ 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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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/CO₂ for bacterial inactivation of biological samples*, Plasma Sources Sci. Technol., vol. 20, art. no. 025008 (10pp) (2011), [10.1088/0963-0252/20/2/025008](https://doi.org/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](https://doi.org/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](https://doi.org/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 N₂ and N₂/O₂ Mixtures*, J. Phys. Chem. A, vol. 114 (1), pp. 397–407 (2010), [10.1021/JP907295D](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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+N₂ 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](https://doi.org/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/TiO₂ sample by DBD plasma produced in He/N₂ 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. Anița, C. Agheorghiesei, V. Pohoată, Maria Anița and G. Popa, *Spectroscopic diagnostics for a DBD plasma in He/Air and He/N₂ gas mixtures*, Plasma Process. Polym., vol. 1 (1), pp. 57–62 (2004). [10.1002/PPAP.200400003](https://doi.org/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/TiO₂ sample by DBD produced in He and He/N₂ gas mixture*, Analele Științifice ale Univ. „Al. I. Cuza” din Iași – Fizica Plasmei și Spectroscopie, tom. L, p.127-134 (2004), ISSN 1453-0759

C. Cărți și capitole în cărți, 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. Lucel Sîrghi, Claudiu Costin, **Alina Silvia Chiper**, „Fizica și tehnica vidului. Lucrări de laborator”, Editura Universității „Alexandru Ioan Cuza” din Iași, 2024, ISBN: 978-606-714-905-0, 198 pagini
https://www.editura.uaic.ro/produse/domenii/stiinte_exacte/fizica-si-tehnica-vidului-lucrari-de-laborator-2058/1
3. **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
4. **A. Chiper**, C. Borcia, I. Topală, G. Borcia „Fizica atomului și moleculei. Lucrări de laborator”, (G. Borcia - coordinator), Editura Universității „Alexandru Ioan Cuza” Iași, 2015, ISBN: 978-606-714-090-3, 232 pagini.
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D. Articole publicate *in extenso* în volumele conferințelor internaționale 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 number CFP08430-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>

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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, Timișoara, Romania, Abstract Book of the Physics Conference TIM 11, p. 132

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F. Lucrări prezentate la conferințe naționale și publicate în rezumat

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20 Mai 2025

Semnătura,
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