




INFORMAȚII PERSONALE **Staicu Bogdan Corneliu**

 Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor,
 Plasmei și Radiației
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 cornel.staicu@inflr.ro

Sexul Masculin | Data nașterii 28/07/1995 | Naționalitatea Roman

 FUNCȚIA DIN CADRUL PROIECTULUI **MEMBRU IN ECHIPA**

EXPERIENȚA PROFESIONALĂ

-
- | | |
|-------------------------|---|
| 01/01/2020 - Prezent | Asistent cercetare științifică
Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei și Radiației,
Măgurele, Ilfov, Romania (www.inflpr.ro)
<ul style="list-style-type: none"> ▪ Activități specializate, științifice și tehnice Tipul sau sectorul de activitate Cercetare Dezvoltare |
| 14/07/2017 – 31/12/2019 | Fizician
Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei și Radiației,
Măgurele, Ilfov, Romania (www.inflpr.ro)
<ul style="list-style-type: none"> ▪ Activități specializate, științifice și tehnice Tipul sau sectorul de activitate Cercetare Dezvoltare |

EDUCAȚIE ȘI FORMARE

-
- | | |
|-------------------------|---|
| 01/10/2019 – Prezent | Studii Doctorale
Scoala Doctorală a Facultății de Fizica, Universitatea din București, București, Romania
<ul style="list-style-type: none"> ▪ Starea materiei condensate |
| 01/10/2017 – 30/06/2019 | Diploma de Master
Facultatea de Fizica, Universitatea din București, Măgurele, Romania
<ul style="list-style-type: none"> ▪ Fotonica, Spectroscopie, Plasma și Laseri |
| 01/10/2014 – 30/06/2017 | Diploma de Licență
Facultatea de Fizica, Universitatea din București, Măgurele, Romania |
| 15/09/2010 – 30/06/2014 | Diploma de Bacalaureat
Colegiul Național de Informatică "Tudor Vianu", București, Romania |

COMPETENTE
PERSONALE

Limba(i) maternă(e) Romana

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	B2	B2	B2	B2	B2
Francoeză	A2	A2	A1	A1	A1

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

Competențe de comunicare ▪ Bune abilitati de comunicare

Competențe organizaționale/manageriale ▪ Bune abilitati de planificare, organizare si desfasurare a experimentelor complexe

Competențe dobândite la locul de muncă Buna cunoastere a aparatelor si metodelor de lucru si utilizarea lor in buna desfasurare a
 ▪ experimentelor complexe.

Competență digitală

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat

Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat

Competențele digitale - Grilă de auto-evaluare

Permis de conducere B

INFORMATII SUPLIMENTARE

Conferințe
 2023- C. Staicu, P. Dincă, B. Butoi, O. Pompilian, C. Poroșnicu, C.P. Lungu INVESTIGATION OF MECHANICAL PROPERTIES OF IRON-BORON MATERIALS OBTAINED BY TWO DEPOSITION METHODS 21st International Balkan Workshop on Applied Physics and Materials Science 11-14 July 2023 Constanta, ROMANIA Poster
 2023- Cristian Lungu, Corneliu Porosnicu, Paul Dinca, Oana Pompilian, Bogdan Butoi, Cornel Staicu, Sorin Moga, Catalin Ducu Be dust produced in off-normal (air and water leaks) conditions –formation and properties PFMC -19 (Plasma Facing Materials Conference) Bonn, Germania 21-27 mai 2023 Poster ID 169
 2023-Cristian Lungu, Corneliu Porosnicu, Paul Dinca, Oana Pompilian, Bogdan Butoi, Cornel Staicu Beryllium Dust Preparation to Mimic Particle Formation in Fusion devices Global Plasma Form in AOMORI 16-18 Octombrie 2023 Japonia invitata, Ienary lecture
 2023- C. POROSNICU, C.P. LUNGU, O. POMPILIAN, P. DINCA, B. BUTOI, C. STAIKU Studies on Beryllium Based Plasma Facing Components for Nuclear Fusion Reactors E-MRS 2023 FALL MEETING Varsovia (Poland) 18-21 Septembrie 2023, invitata
 2023- Cristian Lungu, Corneliu Porosnicu, Paul Dinca, Oana Pompilian, Bogdan Butoi, Cornel Staicu, Sorin Moga, Catalin Ducu , Production and analysis of beryllium dust particles similarly to those found in Joint European Torus, 21st International Balkan Workshop on Applied Physics and Materials Science, 11-14 July 2023, Constanta, Romania, invited lecture

2021- Magurele (Romania)- 19th INTERNATIONAL CONFERENCE ON PLASMA PHYSICS AND APPLICATIONS "Structural and magnetic specificity in Fe-B intermetallic thin films obtained by thermoionic vacuum arc and magnetron sputtering"
 2019- Constanta (Romania)- International Balkan Workshop on Applied Physics, "Probe measurements of TVA plasmas Parameters"
 2018- Helsinki (Finland) International Conference of Physics Students
 2017- Constanta (Romania)- International Balkan Workshop on Applied Physics, "Characteristics and antibacterial properties of the Cu, Ag thin films obtained by the thermoionic vacuum arc method"
 2016- Iasi (Romania)- National Workshop on Physics and Modern Education, "The study of chemical composition of a meteorite stone by x-ray fluorescence and x-ray tomography"

Publicatii

1. Mihail Lungu, Ioana Porosnicu, Paul Dinca, Alin Velea, Flaviu Baiasu, Bogdan Butoi, Oana Gloria Pompilian, Cornel Staicu, Parau Anca Constantina, Corneliu Porosnicu, Cristian Lungu, Ion Tiseanu Structural, compositional and mechanical characterization of $W_xCr_yFe_{1-x-y}$ layers relevant to nuclear fusion, *Materials*
2. George Mogildea, Marian Mogildea, Cristian P Lungu, Cristina Popa, Cornel Staicu Investigation of the absorption process of the microwave radiation by metal wires with the same electrical conductivity *Physica Scripta*
3. Paul Pavel Dinca, Bogdan Butoi, Mihail Lungu, Corneliu Porosnicu, Ionut Jepu, Cornel Staicu, Cristian Lungu, Ana Niculescu, Ion Burducea, Oana Trusca, Maria Diaconu, Igor Cretescu, Gabriela Soreanu Antibacterial Efficiency of stainless-steel grids coated with Cu-Ag by Thermionic Vacuum Arc Method *Coatings* Volume: 10 Issue: 4 Article Number: 322 Published: APR 2020 ; doi:10.3390/coatings10040322
4. Paul Dinca, Bogdan Butoi, Corneliu Porosnicu, Gloria Pompilian, Cornel Staicu, Cristian Lungu, Ion Burducea Structure, morphology and deuterium retention and release properties of pure and mixed Be and W layers *Journal of Physics D: Applied Physics*, Volume: 53 Issue: 32 Article Number: 325304 Published: AUG 5 2020
5. Paul Dinca, Cornel Staicu, Corneliu Porosnicu*, Oana Gloria Pompilian, Ana-Maria Banici, Bogdan Butoi, Cristian Lungu, Ion Burducea Deuterium retention in beryllium co-deposited layers *Coatings*, 11, 1443, <https://doi.org/10.3390/coatings11121443> Published: Nov 2021
6. Mihail Lungu, Cornel Staicu, Flaviu Baiasu, Alexandru Marin, Bogdan Butoi, Daniel Cristea, Oana Gloria Pompilian, Claudiu Locovei, Corneliu Porosnicu* Deposition, morphological and mechanical evaluation of W and Be - Al₂O₃ and Er₂O₃ co-sputtered films in comparison with pure oxides *Coatings* 2021, 11, 1430. <https://doi.org/10.3390/coatings11111430>
7. P. Dinca, C. Staicu, C. Porosnicu, B. Butoi, O. G. Pompilian, A. M. Banici, F. Baiasu, I. Burducea, C. P. Lungu Deuterium retention in mixed layers with application in fusion technology *Coatings* 2022, 12, 951. <https://doi.org/10.3390/coatings12070951>
8. S.A. Yehia, L.Carpén, F. Stokker-Cheregi, C. Porosnicu, V.Satulu, C.Staicu, B.Butoi, I. Lungu, F.Virot, C.Grisolia, G.Dinescu Laser ablation of a solid target in liquid medium for beryllium nanoparticles synthesis *Nuclear Materials and Energy*, Volume 31, June 2022, 101160
9. Mihail Lungu, Daniel Cristea, Flaviu Baiasu, Cornel Staicu, Alexandru Marin, Oana Gloria Pompilian, Bogdan Butoi, Claudiu Locovei, Corneliu Porosnicu Surface, structural, and mechanical properties enhancement of Cr₂O₃ and SiO₂ co-deposited coatings with W or Be *Nanomaterials* 2022, 12(16), 2870 Published AUG 2022
10. Cornel Staicu, Claudiu Locovei, Andrei Alexandru Dinu, Ion Burducea, Dinca Paul, Bogdan Butoi, Oana Gloria Pompilian, Corneliu Porosnicu, Cristian P. Lungu, Victor Kuncser Structural and Magnetic Specificities of Fe-B Thin Films obtained by Thermionic Vacuum Arc and Magnetron Sputtering *Coatings* 2022, 12, 1592. <https://doi.org/10.3390/coatings12101592>
11. V. Ciupină, M. Albu, A. Caraiane, C. Porosnicu, C. Staicu, V. Nicolescu, R. Manu Nitrogen doped ZrO₂ thin films: synthesis and characterization *Journal of Ovonic Research*, Volume 18, Number 2, doi: 10.15251/JOR.2022.186.759
12. Sasa-Alexandra Yehia-Alexe, Andreea Groza, Mihai Serbanescu, Maria Elena Zarif, Bogdan Bită, Paul Dinca, Bogdan Butoi, Cornel Staicu, Corneliu Porosnicu Considerations on hydrogen isotopes release from thin films by laser induced ablation and laser induced desorption techniques *Spectrochimica Acta Part B: Atomic Spectroscopy*, Available online 14 August 2023, 106774

