



Bogdan Corneliu Staicu


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Gender: Male

CONTACT

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EDUCATION AND TRAINING

2010 – 2014 – Romania

● **Highschool**

Tudor Vianu National High School of Computer Science

Address Romania

2014 – 2017 – Romania

● **Bachelor Degree in Medical Physics**

Faculty of Physics, University of Bucharest

Address Romania

2017 – 2019

● **Master Degree in Optics, Lasers and Applications**

Faculty of Physics, University of Bucharest

10/2018 – 03/2019

● **Pedagogical Degree Level 1**

Faculty of Psychology and Educational Sciences of the
University of Bucharest

2019 – CURRENT – Romania

● **PhD Student**

Doctoral School, Faculty of Physics, University of
Bucharest

Address Romania

WORK EXPERIENCE

2017 – 2019

● **Physicist**

National Institute for Laser, Plasma and Radiation Physics

2020 – CURRENT

● **Scientific Research Assistant**

National Institute for Laser, Plasma and Radiation Physics

LANGUAGE SKILLS

MOTHER TONGUE(S): Romanian

OTHER LANGUAGE(S):

Engleză

Listening
B2

Reading
B2

**Spoken
production**
B2

**Spoken
interaction**
B2

Writing
B2

Franceză

Listening
A2

Reading
A2

**Spoken
production**
A1

**Spoken
interaction**
A1

Writing
A1

DIGITAL SKILLS

My Digital Skills

OriginLab / Microsoft Office / Simnra Software

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- team spirit acquired in volunteering activities, as well as in practical and research projects carried out within the faculty;

PUBLICATIONS

Publications

1. 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 - Volume: 95 Issue: 4 Article Number: 044002 Published: APR 2020
2. 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
3. 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
4. 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
5. 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>
6. Saşa-Alexandra Yehia, Lavinia Gabriel Carpen, Flavian Stokker-Cheregi, Corneliu Porosnicu, Veronica Sătulu, Cornel Staicu, Bogdan Butoi, Iulia Lungu, François Viroth, Christian Grisolia, Gheorghe Dinescu, "Laser ablation of a solid target in liquid medium for beryllium nanoparticles synthesis", Nuclear Materials and Energy Volume 31, June 2022, <https://doi.org/10.1016/j.nme.2022.101160>
7. Lungu, Mihail; Cristea, Daniel; Baiasu, Flaviu, Staicu, Cornel, Marin, Alexandru, Pompilian, Oana Gloria; Butoi, Bogdan; Locovei, Claudiu, Porosnicu, Corneliu, "Surface, Structural, and Mechanical Properties Enhancement of Cr₂O₃ and SiO₂ Co-Deposited Coatings with W or Be", Nanomaterials, Issue 16 August 2022, 10.3390/nano12162870.
8. Dinca, Paul, Staicu, Cornel; Porosnicu, Corneliu ;Butoi, Bogdan;Pompilian, Oana Gloria; Banici, Ana Maria; Baiasu, Flaviu; Burducea, Ion; Lungu, Cristian P., "Deuterium Retention in Mixed Layers with Application in Fusion Technology", Coatings, Issue 7 July 2022, 10.3390/coatings12070951.

PARTICIPARI LA CONFERINTE NATIONALE SI INTERNATIONALE

● Participation at national and international conferences

2022- Stuttgart (Germany)- The 13th International Symposium on Applied Plasma Science, "Deuterium-Boron Co-Deposited Layers Obtained by Varying Magnetron Plasma Conditions"

2022- Bucharest (Romania)-The International Conference on Lasers, Plasma, and Radiation – Science and Technology (ICLPR-ST), "Deuterium release behavior from Boron co-deposited layers obtained by varying working conditions"

2022- Constanta (Romania)- 20th International Balkan Workshop on Applied Physics and Materials Science, "Deuterium retention in beryllium co-deposited layers"

2021-Magurele (Romania)- International Conference on Plasma Physics and Application. "Structural and magnetic specificity in FeB intermetallic thin films obtained by thermionic 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- Constanța (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- Iași (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"