Curriculum vitae

PERSONAL INFORMATION

Daniel Cristea

daniel.cristea@unitbv.ro

Sex Male | | Nationality Romanian

WORK EXPERIENCE

2015–Present — **Lecturer, Vice-Dean (since 2016)**
Transilvania University, Faculty of Materials Science and Engineering, Brașov (Romania)

2014–2015 — **Associate Teaching Staff**
Transilvania University, Faculty of Materials Science and Engineering, Brașov (Romania)

2012–2013 — **Associate Teaching Staff**
Transilvania University, Faculty of Materials Science and Engineering, Brașov (Romania)

2009–2010 — **Mechanical Engineer**
Brasov Fasteners Inc. , Brasov (Romania)

EDUCATION AND TRAINING

04/2014–2015 — **Postdoctoral researcher**
Transilvania University, Faculty of Materials Science and Enineering, Brașov (Romania)
Project title: *Tantalum oxynitride multifunctional thin films applications*
Main topics: Thin films synthesis and characterization. Practical applications.

02/2012–08/2012 — **Research internship**
Minho University, Department of Physics, Minho/ Guimaraes (Portugal)

2010–2013 — **Ph.D. student**
Transilvania University, Faculty of Materials Science and Enineering, Brașov (Romania)
Thesis title: *Research on the synthesis and characterization of MeO_xN_y system thin films deposited by reactive magnetron sputtering*
Main topics: Thin films synthesis. Thin films characterization.

2009–2011 — **Master's Degree**
Transilvania University, Faculty of Materials Science and Engineering, Brașov (Romania)

2001–2009 — **Materials Science Engineer**
Transilvania University, Faculty of Materials Science and Engineering, Brașov (Romania)
Main topics: Materials science, Materials engineering.

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills Communication abilities, individual and team work

Job-related skills Thin film research and development, mainly by Physical Vapor Deposition (sputtering, PLD, etc.), surface characterization (nanoindentation, wear and tribology, adherence of thin films to substrates, corrosion resistance, biocompatibility, photocatalysis, electrical, and optical analysis.

Computer skills Skills in using various software programs: MS Office, Origin, Sigmaplot, Scratch, Indentation, TriboX, Solidworks, AutoCAD etc.

ADDITIONAL INFORMATION

Research projects

1. SFERA III: Concentrated solar radiation fast sintering of novel metastable Al-Si-Ni alloys, as potential raw materials for additive manufacturing
European Commission nr ctr: 823802 2019
2. SFERA III: Novel Ti-based biocompatible alloy coatings from powders sintered onto Ti6Al4V substrates using concentrated solar radiation
European Commission nrctr: 823802 2020
3. DAAD Grant: Corrosion resistant Me-Mg nitrides
(Host: Research Institute for Precious Metals and Metal Chemistry (fem Forschungsinstitut Edelmetalle + Metallchemie) Schwäbisch Gmünd, Germania
German Academic Exchange Service nr ctr: 57442043 2020
4. Magnetron sputtered Me-Me binary oxynitride multifunctional thin solid films. 431898 RON, UEFISCDI nr.ctr: TE 59 31/08/2020 (PN-IIIP1-1.1-TE-2019-1209) 2020-2022
5. Hardness Test, Scratch Test, Pin/Ball on Disk Tribometer Test. 72000 RON IFIN-HH nr.ctr: 13440 16/11/2020 2020-2021
- Member of 8 national and international research projects.

Elements of recognition of scientific contributions 402 citations in ISI journals, 221 non-ISI citations, Hirsch indexes: Clarivate: 11, SCOPUS: 12, GS: 15

Synthesis of achievements

- 5 books at national level, 1 book chapter at international level (Elsevier)
- ISI indexed papers: 51 (+6 ISI Proceedings), of which 12 as lead author (FI> 1)
- BDI indexed works: 13
- habilitation in the field of Materials Engineering (2021)