

Nume Prenume: Cristea Daniel
Gradul didactic: Conf. dr. ing
Instituția: Universitatea Transilvania din Brașov
Facultatea: Știința și ingineria materialelor
Departamentul: Știința materialelor

Lista lucrărilor științifice

A. Portofoliu lucrări reprezentative:

1. D.Cristea, D.Constantin, A.Crisan, C.S.Abreu, J.R.Gomes, N.P.Barradas, E.Alves, C.Moura, F.Vaz, L.Cunha. **Properties of tantalum oxynitride thin films produced by magnetron sputtering: The influence of processing parameters** revista: **Vacuum** issn: 0042207X An Aparitie: 2013 Autori: 10 Autor Principal WOS:000322805900013 **FI = 2,06** [link](#)
2. D Cristea, A Crisan, NP Barradas, E Alves, C Moura, F Vaz, L Cunha. **Development of tantalum oxynitride thin films produced by PVD: Study of structural stability** revista: **Applied Surface Science** issn:01694332 An Aparitie: 2013 Autori:7 Autor Principal WOS:000325960900004 **FI = 4,43** [link](#)
3. D Cristea, A Crisan, D Munteanu, M Apreutesei, MF Costa, L Cunha. **Tantalum oxynitride thin films: Mechanical properties and wear behavior dependence on growth conditions** revista: **Surface and Coatings Technology** issn: 02578972 An Aparitie: 2014 Autori: 6 Autor Principal WOS:000346895000071 **FI = 2,90** [link](#)
4. D Cristea, A Crisan, N Cretu, J Borges, C Lopes, L Cunha, V Ion, M Dinescu, NP Barradas, E Alves, M Apreutesei, D Munteanu. **Structure dependent resistivity and dielectric characteristics of tantalum oxynitride thin films produced by magnetron sputtering** revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2015 Autori: 12 Autor Principal WOS:000363673500009 **FI = 4,43** [link](#)
5. D Cristea, M Pătru, A Crisan, D Munteanu, D Crăciun, NP Barradas, E Alves, M Apreutesei, C Moura, L Cunha. **Composition and structure variation for magnetron sputtered tantalum oxynitride thin films, as function of deposition parameters** revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2015 Autori: 10 Autor Principal WOS:000366220500002 **FI = 4,43** [link](#)
6. Ioana Ghiuță, Daniel Cristea*, Cătălin Croitoru, Joseph Kost, Rodica Wenkert, Ioannis Vyrides, Andreas Anayiotos, Daniel Munteanu. **Characterization and antimicrobial activity of silver nanoparticles, biosynthesized using Bacillus species** revista: **Applied Surface Science**

issn:01694332 An Aparitie: 2018 Autori: 8 Autor Principal WOS:000425731200009 FI = 4,43 [link](#)

7. L Cunha, M Apreutesei, C Moura, E Alves, NP Barradas, D Cristea*. **In-situ XRD vs ex-situ vacuum annealing of tantalum oxynitride thin films: Assessments on the structural evolution** revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2018 Autori: 6 Autor Principal WOS:000425731200003 FI = 4,43 [link](#)
8. Daniel Cristea, Luis Cunha, Camelia Gabor, Ioana Ghiuta, Catalin Croitoru, Alexandru Marin, Laura Velicu, Alexandra Besleaga, Vasile Bogdan. **Tantalum Oxynitride Thin Films: Assessment of the Photocatalytic Efficiency and Antimicrobial Capacity** revista: **Nanomaterials** issn: 20794991 An Aparitie: 2019 Autori: 9 Autor Principal WOS:000464450100003 FI = 3,50 [link](#)
9. Daniel Cristea, Cătălin Croitoru, Alexandru Marin, Marius Dobromir, Elena Laura Ursu, Ioana Laura Velicu, Vasile Tiron, Valentin Crăciun, Luis Cunha. **On the chemistry, photocatalytic, and corrosion behavior of co-sputtered tantalum and titanium oxynitride thin films**, revista: **Applied Surface Science** Vol 592, Aug 2022, 153260, issn: 01694332 An Aparitie: 2022 WOS: 000807355500004 Autor Principal FI = 7,39 [link](#)
10. Daniel Cristea, Ioana-Laura Velicu, Luis Cunha, Nuno Barradas, Eduardo Alves, Valentin Craciun **Tantalum-Titanium Oxynitride Thin Films Deposited by DC Reactive Magnetron Co-Sputtering: Mechanical, Optical, and Electrical Characterization** revista: **Coatings** 12 (1), 36, issn: 20796412 An: 2022 Autori: 6 Autor Principal FI = 3,23 [link](#)

B. Teza de doctorat

Cercetări privind sinteza și caracterizarea straturilor subțiri din sistemul MeO_xN_y, obținute prin pulverizare reactivă în sistem magnetron.

C. Cărți și capitole în cărți

1. I Ghiuță, D Cristea. *Silver nanoparticles for delivery purposes*, in Nanoengineered Biomaterials for Advanced Drug Delivery 1st Edition editura: Elsevier isbn:9780081029855 An Apariție: 2020 Nr Autori: 2 Nr Pagini: 25
2. Daniel Cristea, Luis Cunha, Aurel Crișan, Daniel Munteanu. *Straturi subțiri de tip oxinitrură*, editura: Editura Universității Transilvania, isbn: 978-606-19-0450-1 An Apariție: 2014 Nr Autori: 4 Nr Pagini: 201 Autor Principal
3. Ioana Ghiuță, Daniel Cristea, Daniel Munteanu. *Biosinteza nanoparticulelor metalice*, editura: Editura Universității Transilvania, isbn: 978-606-19-1011-3, An Aparitie: 2018 Nr Autori: 3 Nr Pagini: 183

4. Camelia Gabor, **Daniel Cristea**, Mariana Axente. *Compactarea izostatică a straturilor subțiri obținute prin pulverizare termică*, editura: PRINTECH, isbn: 978-606-23-0988-6, An Apariție: 2019 Nr Autori: 3 Nr Pagini: 319
5. **Daniel Cristea**. *Materiale avansate pentru energii regenerabile*, editura: Printech, isbn: 978-606-23-1156-8, An Apariție: 2020 Nr Autori: 1 Nr Pagini: 204, Autor Principal
6. **Daniel Cristea**. *Nanomateriale*, editura: Printech, isbn: 978-606-23-1144-5, An Apariție: 2020 Nr Autori: 1 Nr Pagini: 254 Autor Principal

D. Lucrări indexate ISI/BDI

a. ISI-WOS (Clarivate)

1. **D Cristea**, D Constantin, A Crisan, CS Abreu, JR Gomes, NP Barradas, E Alves, C Moura, F Vaz, L Cunha. *Properties of tantalum oxynitride thin films produced by magnetron sputtering: The influence of processing parameters* revista: **Vacuum** issn: 0042207X An Apariție: 2013 Autori: 10 **Autor Principal** WOS:000322805900013 FI = **2.06** [link](#)
2. **D Cristea**, A Crisan, NP Barradas, E Alves, C Moura, F Vaz, L Cunha. *Development of tantalum oxynitride thin films produced by PVD: Study of structural stability* revista: **Applied Surface Science** issn:01694332 An Apariție: 2013 Autori:7 **Autor Principal** WOS:000325960900004 FI = **4.43** [link](#)
3. Konstantinos Kapnisis, Georgios Constantinides, Harry Georgiou, **Daniel Cristea**, Camelia Gabor, Daniel Munteanu, Brigitta Brott, Peter Anderson, Jack Lemons, Andreas Anayiotos. *Multi-scale mechanical investigation of stainless steel and cobalt–chromium stents* revista: **Journal of the mechanical behavior of biomedical materials** issn:17516161 An Apariție: 2014 Autori:10 WOS:000345468700024 FI = **3.41** [link](#)
4. **Daniel Cristea**, Aurel Crisan, Nuno Barradas, Eduardo Alves, Pedro Costa, Senenbxu Lanceros-Méndez, Luis Cunha. *Electrical And Photocatalytic Behaviour Of TaON Magnetron Sputtered Thin Solid Films* revista: **Metalurgia International** issn:15822214 An Apariție: 2013 Autori: 7 **Autor Principal** WOS:000315835600013 FI = **0.13** [link](#)
5. **D Cristea**, A Crisan, D Munteanu, M Apreutesei, MF Costa, L Cunha. *Tantalum oxynitride thin films: Mechanical properties and wear behavior dependence on growth conditions* revista: **Surface and Coatings Technology** issn: 02578972 An Apariție: 2014 Autori: 6 **Autor Principal** WOS:000346895000071 FI = **2.90** [link](#)
6. G Popescu-Pelin, D Craciun, G Socol, **D Cristea**, L Floroian, M Badea, M Socol, V Craciun. *Investigations of pulsed laser deposited TiN thin films for titanium implants* revista: **Romanian Reports in Physics** issn: 12211451 An Apariție: 2015 Autori: 8 WOS:000367274400029 FI = **1.58** [link](#)
7. V Jinga, AO Mateescu, G Mateescu, LS Craciun, C Ionescu, C Samoila, D Ursutiu, D Munteanu, D **Cristea**. *Mechanical and tribological behaviour of the multilayer dry lubricant coatings with ternary composition from compound materials (TixNy; TiB2/TixByNz; WC/WxCyNz)* revista:

- Journal Of Optoelectronics And Advanced Materials** issn:14544164 An Aparitie: 2015 Autori: 9 FI = 0.39 WOS:000357766600040 [link](#)
8. D Craciun, G Socol, **D Cristea**, M Stoicanescu, Nikolett Oláh, K Balazs, N Stefan, E Lambers, V Craciun. *Mechanical properties of pulsed laser deposited nanocrystalline SiC films* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2015 Autori: 9 WOS:000351617600066 FI = 4.43 [link](#)
 9. AO Mateescu, G Mateescu, V Jinga, **D Cristea**, C Samoilă, D Ursutiu, D Munteanu. *Physical and technological interpretation of mechanical properties for single and multi-layer films with properties of dry lubricants* revista: **Journal Of Optoelectronics And Advanced Materials** issn:14544164 An Aparitie: 2015 Autori: 7 WOS:000359967600039 FI = 0.39 [link](#)
 10. Ioan Dragos Utu, Gabriela Marginean, Iosif Hulka, Viorel-Aurel Serban, **Dan Cristea**. *Properties of the thermally sprayed Al₂O₃-TiO₂ coatings deposited on titanium substrate* revista: **International Journal of Refractory Metals and Hard Materials** issn: 02634368 An Aparitie: 2015 Autori: 5 WOS:000356744300016 FI = 2.60 [link](#)
 11. **D Cristea**, A Crisan, N Cretu, J Borges, C Lopes, L Cunha, V Ion, M Dinescu, NP Barradas, E Alves, M Apreutesei, D Munteanu. *Structure dependent resistivity and dielectric characteristics of tantalum oxynitride thin films produced by magnetron sputtering* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2015 Autori: 12 Autor Principal WOS:000363673500009 FI = 4.43 [link](#)
 12. M Pătru, L Isac, L Cunha, P Martins, S Lancers-Mendez, G Oncioiu, **D Cristea**, D Munteanu. *Structural, mechanical and piezoelectric properties of polycrystalline AlN films sputtered on titanium bottom electrodes* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2015 Autori: 8 WOS:000363673500006 FI = 4.43 [link](#)
 13. V Jinga, AO Mateescu, **D Cristea**, G Mateescu, I Burducea, C Ionescu, LS Crăciun, I Ghiuță, C Samoilă, D Ursutiu, D Munteanu. *Compositional, morphological and mechanical investigations of monolayer type coatings obtained by standard and reactive magnetron sputtering from Ti, TiB₂ and WC* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2015 Autori: 11 WOS:000366220500011 FI = 4.43 [link](#)
 14. **D Cristea**, M Pătru, A Crisan, Daniela Munteanu, D Crăciun, NP Barradas, E Alves, M Apreutesei, C Moura, L Cunha. *Composition and structure variation for magnetron sputtered tantalum oxynitride thin films, as function of deposition parameters* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2015 Autori: 10 Autor Principal WOS:000366220500002 FI = 4.43 [link](#)
 15. Valentin Craciun, **Daniel Cristea**, Gabriel Socol, Eric Lambers, Roxana Trusca, Steven Fairchild, Tyson Back, Gregory Gruen, Doina Craciun. *Characteristics of LaB₆ thin films grown by pulsed laser deposition* revista: **Journal of Vacuum Science & Technology A** issn: 07342101 An Aparitie: 2016 Autori: 9 WOS:000384263700025 FI = 1.76 [link](#)

16. M Pătru, C Gabor, **D Cristea**, G Oncioiu, D Munteanu. *Mechanical and wear characteristics of aC: H/Cr/AlN/Ti multilayer films deposited by PVD/PACVD* revista: **Surface & Coatings Technology** issn: 02578972 An Aparitie: 2017 Autori: 5 WOS:000402215000048 FI = 2.90 [link](#)
17. Camelia Popescu, **Daniel Cristea**, Bogdan Bită, Rodica Cristescu, Doina Craciun, Georgiana Diana Chioibas, Catalin Luculescu, Irina Paun, Liviu Duta, Andrei C Popescu. *An Experimental Study on Nano-Carbon Films as an Anti-Wear Protection for Drilling Tools* revista: **Coatings** issn:20796412 An Aparitie: 2017 Autori: 10 WOS:000419197100021 FI = 2.35 [link](#)
18. Ioan Milosan, **Daniel Cristea**, Ionelia Voiculescu, Mihai Alin Pop, Marianne Balat-Pichelin, Andra Mihaela Predescu, Cristina Aurica Bogatu, Tibor Bedo, Andrei-Constantin Berbecaru, Victor Geantă, Camelia Gabor, Luminita Anisoara Isac, Flavius Aurelian Sarbu, Gheorghe Oancea. *Characterisation of EN 1.4136 stainless steel heat-treated in solar furnace* revista: **The International Journal of Advanced Manufacturing Technology** issn:02683768 An Aparitie: 2018 Autori: 14 WOS:000463669500060 FI = 2.60 [link](#)
19. Ioana Ghiuță, **Daniel Cristea**, Catalin Croitoru, Joseph Kost, Rodica Wenkert, Ioannis Vyrides, Andreas Anayiotos, Daniel Munteanu. *Characterization and antimicrobial activity of silver nanoparticles, biosynthesized using Bacillus species* revista: **Applied Surface Science** issn:01694332 An Aparitie: 2018 Autori: 8 Autor Principal WOS:000425731200009 FI = 4,43 [link](#)
20. Catalin Croitoru, Cosmin Spirchez, Aurel Lunguleasa, **Daniel Cristea**, Ionut Claudiu Roata, Mihai Alin Pop, Tibor Bedo, Elena Manuela Stanciu, Alexandru Pascu. *Surface properties of thermally treated composite wood panels* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2018 Autori: 9 WOS:000425731200013 FI = 4.43 [link](#)
21. L Cunha, M Apreutesei, C Moura, E Alves, NP Barradas, **D Cristea**. *In-situ XRD vs ex-situ vacuum annealing of tantalum oxynitride thin films: Assessments on the structural evolution* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2018 Autori: 6 Autor Principal WOS:000425731200003 FI = 4,43 [link](#)
22. Ioan Milosan, Gilles Flamant, Ionelia Voiculescu, Victor Geanta, Daniel Munteanu, Tibor Bedo, Mihai Alin Pop, Augustin Semenescu, Aurel Crisan, **Daniel Cristea**, Ioan Giacomelli, Maria Stoicanescu, Camelia Gabor, Flavius Aurelian Sarbu, Ioana Ghiuta. *Comparative study of heat treatment effects performed with solar energy and electric furnace on en 1.4848 stainless steel alloyed with Co, W, Cu and Mo*, revista: **Revista de Chimie (Bucharest)** issn: 25375733 An Aparitie: 2018 Autori: 15 WOS:000434954100004 FI = 1.41 [link](#)
23. Catalin Croitoru, Cosmin Spirchez, **Daniel Cristea**, Aurel Lunguleasa, Mihai Alin Pop, Tibor Bedo, Ionut Claudiu Roata, Mihai Alexandru Luca. *Calcium carbonate and wood reinforced hybrid PVC composites* revista: **Journal of Applied Polymer Science** issn: 00218995 An Aparitie: 2018 Autori: 8 WOS:000426508700017 FI = 1.90 [link](#)

24. Vasile Tiron, Ioana-Laura Velicu, Iulian Pana, **Daniel Cristea**, Bogdan George Rusu, Paul Dinca, Corneliu Porosnicu, Eduard Grigore, Daniel Munteanu, Sorin Tascu. *HiPIMS deposition of silicon nitride for solar cell application* revista: **Surface & Coatings Technology** issn: 02578972 An Aparitie: 2018 Autori: 10 WOS:000437391300023 FI = 2.90 [link](#)
25. EL Tiron, A Crisan, T Bedő, M Stoicanescu, MA Pop, **D Cristea**. *The Influence of Galvanizing Parameters on the Structural Development of Zn-Al-Based Coatings* revista: **Journal of Materials Engineering and Performance** issn: 10599495 An Aparitie: 2018 Autori: 6 WOS:000443966400018 FI = 1.34 [link](#)
26. Vasile Tiron, Ioana-Laura Velicu, **Daniel Cristea**, Nicoleta Lupu, George Stoian, Daniel Munteanu. *Influence of ion-to-neutral flux ratio on the mechanical and tribological properties of TiN coatings deposited by HiPIMS* revista: **Surface & Coatings Technology** issn: 02578972 An Aparitie: 2018 Autori: 6 WOS:000447106400071 FI = 2.90 [link](#)
27. D Feldiorean, **D Cristea**, M Tierean, C Croitoru, C Gabor, L Jakab-Farkas, L Cunha, NP Barradas, E Alves, V Craciun, A Marin, C Moura, J Leme, M Socol, D Craciun, M Cosnita, D Munteanu. *Deposition temperature influence on the wear behaviour of carbon-based coatings deposited on hardened steel* revista: **Applied Surface Science** issn:01694332 An Aparitie: 2019 Autori: 17 WOS:000458482100090 FI = 4.43 [link](#)
28. Ioana-Laura Velicu, Gabriela-Theodora Ianoş, Corneliu Porosnicu, Ilarion Mihăilă, Ion Burducea, Alin Velea, **Daniel Cristea**, Daniel Munteanu, Vasile Tiron. *Energy-enhanced deposition of copper thin films by bipolar high power impulse magnetron sputtering* revista: **Surface & Coatings Technology** issn: 02578972 An Aparitie: 2019 Autori: 9 WOS:000457662700012 FI = 2.90 [link](#)
29. Guangyu Yan, Yuhou Wu, **Daniel Cristea**, Feng Lu, Yibao Wang, Dehong Zhao, Mircea Tierean, Lusheng Liu. *Machining performance of hard-brittle materials by multi-layer micro-nano crystalline diamond coated tools* revista: **Results in Physics** issn: 22113797 An Aparitie: 2019 Autori: 8 WOS:000476618700191 FI = 2.14 [link](#)
30. Camelia Gabor, **Daniel Cristea**, Ioana-Laura Velicu, Tibor Bedo, Andrea Gatto, Elena Bassoli, Bela Varga, Mihai Alin Pop, Victor Geanta, Radu Stefanoiu, Mirela Maria Codescu, Eugen Manta, Delia Patroi, Monica Florescu, Sorin Ion Munteanu, Ioana Ghiuta, Nicoleta Lupu, Daniel Munteanu. *Ti-Zr-Si-Nb Nanocrystalline Alloys and Metallic Glasses: Assessment on the Structure, Thermal Stability, Corrosion and Mechanical Properties* revista: **Materials** issn:19961944 An Aparitie: 2019 Autori: 18 WOS:000469757500192 FI = 2.46 [link](#)
31. Tibor Bedo, Bela Varga, **Daniel Cristea**, Alexandra Nitoi, Andrea Gatto, Elena Bassoli, Georgiana Bulai, Ioana-Laura Velicu, Ioana Ghiuta, Sorin Munteanu, Mihai Alin Pop, Camelia Gabor, Mihaela Cosnita, Luminita Parv, Daniel Munteanu. *Metastable Al-Si-Ni Alloys for Additive Manufacturing: Structural Stability and Energy Release during Heating* revista: **Metals** issn: 20754701 An Aparitie: 2019 Autori:15 WOS:000478818700002 FI = 1.70 [link](#)

32. Vasile Tiron, Corneliu Porosnicu, Paul Dinca, Ioana-Laura Velicu, **Daniel Cristea**, Daniel Munteanu, Ádám Révész, George Stoian, Cristian P Lungu. *Beryllium thin films deposited by thermionic vacuum arc for nuclear applications* revista: **Applied Surface Science** issn:01694332 An Aparitie: 2019 Autori: 9 WOS:000472176900040 FI = 4.43 [link](#)
33. **Daniel Cristea**, Luis Cunha, Camelia Gabor, Ioana Ghiuta, Catalin Croitoru, Alexandru Marin, Laura Velicu, Alexandra Besleaga, Bogdan Vasile. *Tantalum Oxynitride Thin Films: Assessment of the Photocatalytic Efficiency and Antimicrobial Capacity* revista: **Nanomaterials** issn: 20794991 An Aparitie: 2019 Autori: 9 Autor Principal WOS:000464450100003 FI = 3.50 [link](#)
34. V Tiron, E-L Ursu, **D Cristea**, D Munteanu, G Bulai, A Ceban, I-L Velicu. *Overcoming the insulating materials limitation in HiPIMS: Ion-assisted T deposition of DLC coatings using bipolar HiPIMS* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2019 Autori: 7 WOS:000487838900098 FI = 5.15 [link](#)
35. Guangyu Yan, Yuhou Wu, **Daniel Cristea**, Lusheng Liu, Mircea Tiorean, Yibao Wang, Feng Lu, He Wang, Ziyao Yuan, Daniel Munteanu, Dehong Zhao. *Mechanical properties and wear behavior of multi-layer diamond films deposited by hot-filament chemical vapor deposition* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2019 Autori: 11 WOS:000487838900046 FI = 5.15 [link](#)
36. C Lopes, C Gabor, **D Cristea**, R Costa, RP Domingues, MS Rodrigues, J Borges, E Alves, NP Barradas, D Munteanu, F Vaz. *Evolution of the mechanical properties of Ti-based intermetallic thin films doped with different metals to be used as biomedical devices* revista: **Applied Surface Science** issn: 01694332 An Aparitie: 2020 Autori: 11 WOS:000510846500142 FI = 5.15 [link](#)
37. Ioan Milosan, Monica Florescu, **Daniel Cristea**, Ionelia Voiculescu, Mihai Alin Pop, Inmaculada Cañadas, José Rodriguez, Cristina Aurica Bogatu, Tibor Bedo. *Evaluation of heat-treated AISI 316 stainless steel in solar furnaces to be used as possible implant material* revista: **Materials** issn:19961944 An Aparitie: 2020 Autori: 9 WOS:000515503100088 FI = 2.97 [link](#)
38. Zhe Yuan, Tingting Peng, Dong An, **Daniel Cristea**, Mihai Alin Pop. *Rolling bearing fault diagnosis based on adaptive smooth ITD and MF-DFA method* revista: **Journal of Low Frequency Noise, Vibration and Active Control** issn: 20484046 An Aparitie: 2019 Autori: 5 WOS:000480051500001 FI = 1.70 [link](#)
39. Vasile Tiron, Ioana-Laura Velicu, Teodora Matei, **Daniel Cristea**, Luis Cunha, George Stoian. *Ultra-Short Pulse HiPIMS: A Strategy to Suppress Arcing during Reactive Deposition of SiO₂ Thin Films with Enhanced Mechanical and Optical Properties* revista: **Coatings** issn: 20796412 An Aparitie: 2020 Autori: 6 WOS:000554213600001 FI = 2.43 [link](#)
40. George E Stan, Teddy Tite, Adrian-Claudiu Popa, Iuliana Maria Chirica, Catalin C Negri, Cristina Besleaga, Irina Zgura, Any Cristina Sergentu, Gianina Popescu-Pelin, **Daniel Cristea**, Lucia E Ionescu, Marius Neculescu, Hugo R Fernandes, José MF Ferreira. *The Beneficial Mechanical and Biological Outcomes of Thin Copper-Gallium Doped Silica-Rich Bio-Active*

- Glass Implant-Type Coatings*. revista: **Coatings** issn: 20796412 An Aparitie: 2020 Autori: 14 WOS:000592733100001 FI = **2.43** [link](#)
41. Alice O Mateescu, Gheorghe Mateescu, Adriana Balan, Catalin Ceaus, Ioan Stamin, **Daniel Cristea**, Cornel Samoila, Doru Ursutiu. *Stainless Steel Surface Nitriding in Open Atmosphere Cold Plasma: Improved Mechanical, Corrosion and Wear Resistance Properties* revista: **Materials** 14 (17), 4836, issn: 1996-1944 An: 2021 Autori: 8 WOS:000694404900001 FI = **3.62** [link](#)
42. Belgacem Tiss, Youssef Moualhi, Noureddine Bouguila, Mabrouk Kraini, Sahbi Alaya, Catalin Croitoru, Ioana Ghiuta, **Daniel Cristea**, Delia Patroi, Cacilda Moura, Luís Cunha *Influence of the Physical Properties on the Antibacterial and Photocatalytic Behavior of Ag-Doped Indium Sulfide Film Deposited by Spray Pyrolysis* revista: **Coatings** 11 (4), 370, issn: 20796412 An: 2021 Autori: 11 WOS:000642934600001 FI = **2,88** [link](#)
43. B Tiss, A Ben Fradj, N Bouguila, **D Cristea**, C Croitoru, M Kraini, C Vázquez-Vázquez, L Cunha, C Moura, S Alaya *Electrical Behavior and Photocatalytic Activity of Ag-Doped In₂S₃ Thin Films* revista: **Journal of Electronic Materials** 50 (6), 3739-3747, issn: 0361-5235 An: 2021 Autori: 10 WOS:000640473000008 FI = **1,93** [link](#)
44. B Tiss, M BenFraj, N Bouguila, M Kraini, S Alaya, **D Cristea**, C Croitoru, V Craciun, D Craciun, P Prepelita, I-L Velicu, V Tiron, C Moura, L Cunha *The effect of vacuum and air annealing in the physical characteristics and photocatalytic efficiency of In₂S₃: Ag thin films produced by spray pyrolysis* revista: **Materials Chemistry and Physics** 270, 124838, issn: 0361-5235 An: 2021 Autori: 14 WOS:000671215400001 FI = **4,09** [link](#)
45. 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* revista: **Coatings** 11 (11), 1430, issn: 20796412 An: 2021 Autori: 9 FI = **2,88** [link](#)
46. Yuhou Wu, Huisen Zhang, Guangyu Yan, Lusheng Liu, **Daniel Cristea**, He Wang, Yumiao Yang, Jianhui Shen *Hot filament chemical vapor deposition temperature field optimization for diamond films deposited on silicon nitride substrates* revista: **Materials Research Express** 8 (11), 116403, issn: 2053-1591 An: 2021 Autori: 8 WOS:000717278500001 FI = **1,62** [link](#)
47. Vasile Tiron, Mihai Alexandru Ciolan, Georgiana Bulai, **Daniel Cristea**, Ioana-Laura Velicu *Effect of Pulsing Configuration and Magnetic Balance Degree on Mechanical Properties of CrN Coatings Deposited by Bipolar-HIPIMS onto Floating Substrate* revista: **Coatings** 11 (12), 1526, issn: 20796412 An: 2021 Autori: 5 WOS:000736194600001 FI = **2,88** [link](#)
48. **Daniel Cristea**, Ioana-Laura Velicu, Luis Cunha, Nuno Barradas, Eduardo Alves, Valentin Craciun. *Tantalum-Titanium Oxynitride Thin Films Deposited by DC Reactive Magnetron Co-*

- Sputtering: Mechanical, Optical, and Electrical Characterization* revista: **Coatings** 12 (1), 36, issn: 20796412 An: 2022 Autori: 6 **Autor Principal FI = 3,23** [link](#)
49. Vasile Tiron, Elena-Laura Ursu, **Daniel Cristea**, Georgiana Bulai, George Stoian, Teodora Matei, Ioana-Laura Velicu. *Room temperature deposition of nanocrystalline SiC thin films by DCMS/HIPIMS co-sputtering technique* revista: **Nanomaterials**, issn: 2079-4991 An: 2022 Autori: 7 **Autor Principal FI = 5,71, WOS:000759498900001** [link](#)
50. M. Elisa, S.-M. Iordache, A.-M. Iordache, C.R. Stefan, I.C. Vasiliu, **D. Cristea**, D. Ursutiu, C. Samoila, B.A. Sava, L. Boroica, M.C. Dinca, A.V. Filip, M. Eftimie, M Enculescu. *Investigations Regarding the Addition of ZnO and Li2O-TiO2 to Phosphate-Tellurite Glasses: Structural, Chemical, and Mechanical Properties* revista: **Materials** 15 (5), 1644, issn: 1996-1944 An: 2022 Autori: 14 **Autor Principal WOS:000774225400001 FI = 3.74** [link](#)
51. **Daniel Cristea**, Cătălin Croitoru, Alexandru Marin, Marius Dobromir, Elena Laura Ursu, Ioana Laura Velicu, Vasile Tiron, Valentin Crăciun, Luis Cunha. *On the chemistry, photocatalytic, and corrosion behavior of co-sputtered tantalum and titanium oxynitride thin films*, revista: **Applied Surface Science** Vol 592, Aug 2022, 153260, issn: 01694332 An Aparitie: 2022 WOS: 000807355500004 **Autor Principal FI = 7.39** [link](#)
52. Yuhou Wu, Yumiao Yang, Guangyu Yan, **Daniel Cristea**. *Wear behaviour of gradient-multilayer diamond coatings deposited on cemented-carbide substrates*, revista: **Surface Engineering** Vol 38, Iul 2022, 507-519, issn: 0267-0844 An Aparitie: 2022 WOS:000828571700001 **FI = 2,45** [link](#)
53. E.A. Laszlo, D. Crăciun, G. Dorcioman, G. Crăciun, V. Geantă, I. Voiculescu, **D. Cristea**, V Crăciun. *Characteristics of Thin High Entropy Alloy Films Grown by Pulsed Laser Deposition*, revista: **Coatings** Vol 12 (8), Aug 2022, 1211, issn: 20796412 An Aparitie: 2022 WOS:000846020100001 **FI = 3,23** [link](#)
54. 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*. revista: **Nanomaterials** Vol 12 (16), Aug 2022, 2870, issn: 2079-4991 An Aparitie: 2022 WOS: 000845332200001 **FI = 5,71** [link](#)
55. Mohamed Toumi, Belgacem Tiss, Noureddine Bouguila, **Daniel Cristea**, Catalin Croitoru, Ioana Ghiuta, Alexandru Horia Marin, Ioana Laura Velicu, Vasile Tiron, Valentin Craciun, Mabrouk Kraini, Sahbi Alaya, Cacilda Moura, Luis Cuhna. *Chlorine doping impact on the photocatalytic and antibacterial activity of sprayed In₂S₃ films*, revista: **Surface Innovations** Vol 40, Oct 2022, issn: 2050-6260 An Aparitie: 2022 WOS:000855752400001 **Autor Principal FI = 2,39** [link](#)

b. ISI Proceedings

56. Konstantinos Kapnis, Costas Pitsillides, Marianna Prokopi, G. Constantinides, **Daniel Cristea**, Daniel Munteanu, Brigitta Brott, Peter Anderson, Jack Lemons, Andreas Anayiotos. *Metallic*

- Stents: Biomechanical Analysis and In Vivo Investigation of the Vessel Inflammatory Response* revista: XIV Mediterranean Conference On Medical And Biological Engineering And Computing 2016 Book Series: IFMBE Proceedings conferinta: XIV Mediterranean Conference On Medical And Biological Engineering And Computing 2016 issn:16800737 An Aparitie: 2016 Autori: 10 WOS:000376283000212 [link](#)
57. D Craciun, AC Popescu, **D Cristea**, M Stoicanescu, I Milos, E Lambers, G Socol, V Craciun. *Hard TiC Films Grown by Pulsed Laser Deposition* revista: Materials Today-Proceedings conferinta: 10th International Conference on Physics of Advanced Materials (ICPAM) issn: 22147853 An Aparitie: 2015 Autori: 8 WOS:000363467900002 [link](#)
58. Vlad Jinga, **Daniel Cristea**, Cornel Samoilă, D Ursutiu, AO Mateescu, G Mateescu, D Munteanu. *Tribological properties of ternary nanolayers, obtained from simple/compound materials* revista: IOP Publishing IOP Conf. Series: Materials Science and Engineering 133 (2016) conferinta: International Conference on Innovative Research 2016 - ICIR Euroinvent 2016 issn:17578981 An Aparitie: 2016 Autori: 7 WOS:000391140000002 [link](#)
59. Ioana Ghiuță, **Daniel Cristea**, Rodica Wenkert, Daniel Munteanu. *Green synthesis of silver chloride nanoparticles using Rhodotorula Mucilaginosa* revista: Powder Metallurgy and Advanced Materials conferinta: 5th International Conference on Powder Metallurgy & Advanced Materials, RoPM&AM 2017, issn: 24743941 An Aparitie: 2018 Autori: 4 WOS:000452925200004 [link](#)
60. Daniel Munteanu, Tibor Bedo, Mihai Alin Pop, Ioan Milosan, Camelia Gabor, Ioana Ghiuta, Sorin Munteanu, **Dan Cristea**. *Influential parameters on the inductive quenching technology for large bearing rings* revista: Metal 2018 conferinta: Metal 2018 issn: 12345678 An Aparitie: 2018 Autori: 8 WOS:000461832200124 [link](#)
61. Ioana Ghiuta, Andrea Gatto, Elena Bassoli, Sorin Ion Munteanu, Tibor Bedo, Mihai Alin Pop, Camelia Gabor, Maria Covei, Mihaela Cosnita, **Daniel Cristea**, Béla Varga, Daniel Munteanu. *The Influence of Powder Particle and Grain Size on Parts Manufacturing by Powder Bed Fusion* revista: Materials Science Forum (Thermec 2018: 10th International Conference On Processing And Manufacturing Of Advanced Materials) issn: 1662-9752 An Aparitie: 2018 Autori: 12 WOS:000468152500263 [link](#)

c. BDI

62. I Ghiuta, **D Cristea**, D Tint, D Munteanu. *Surface modification of metallic biomaterials used as medical implants and prostheses* revista: Bulletin of the Transilvania University of Brasov. Engineering Sciences. Series I BDI: ProQuest issn:2065-2119 An Aparitie: 2015 Autori: 4 [link](#)
63. **D Cristea**, I Ghiuta, D Munteanu. *Tantalum Based Materials For Implants And Prostheses Applications* revista: Bulletin of the Transilvania University of Brasov. Engineering Sciences. Series I BDI: ProQuest issn: 2065-2119 An Aparitie: 2015 Autori: 3 [link](#)

64. **Daniel Cristea**, Aurel Crişan. *Tantalum Based Thin Films Preparation, Structures and Properties* revista: RECENT BDI: Index Copernicus Journal Master List, ULRICHSWEB Global Serials Directory issn: 1582-0246 An Aparitie: 2013 Autori: 2 [link](#)
65. **Daniel Cristea**, Cristian Ionescu, Alexandru Munteanu, Daniel Munteanu. *The Corrosion Characterization Of Ti-Si-C Thin Films Obtained By Magnetron Sputtering Deposition* revista: RECENT BDI: Index Copernicus Journal Master List, ULRICHSWEB Global Serials Directory issn:1582-0246 An Aparitie: 2009 Autori: 4 [link](#)
66. Vlad Jinga, **Daniel Cristea**, AO Mateescu, Cornel Samoila, Doru Ursuţiu, G Mateescu, Daniel Munteanu. *Dry Lubricant Materials Deposited by Magnetron Sputtering and Friction Coefficients Evaluation* revista: Key Engineering Materials 660:75-80 August 2015 BDI: Scopus issn: 978-3-03835-559-5 An Aparitie: 2015 Autori: 7 [link](#)
67. **D Cristea**, Luis Cunha, A Crişan, D Munteanu. *Overview On Magnetron Sputtered Tantalum Oxynitride Thin Films – Structures And Properties* revista: Tehnomus BDI: Ulrichsweb issn:1224-029X An Aparitie: 2015 Autori: 4 [link](#)
68. C Gabor, **D Cristea**, D Munteanu, T Bedo, MA Pop, SI Munteanu, I Miloşan. *The influence of induction hardening process parameters on the properties of 50CrMo4 steel* revista: Bulletin of the Transilvania University of Brasov, Series I: Engineering Sciences BDI: EBSCO issn: 2065-2119 An Aparitie: 2017 Autori: 7 [link](#)
69. I Ghiuţă, **D Cristea**, D Munteanu. *Synthesis Methods Of Metallic Nanoparticles-An Overview* revista: Bulletin of the Transilvania University of Brasov. Engineering Sciences. Series I BDI: EBSCO issn: 2065-2119 An Aparitie: 2017 Autori: 3 [link](#)
70. DI Feldiorean, **D Cristea**, L Jakab-Farkas, MH Tierean. *Surface Characterization of DLC Layers PVD Coated on AISI 52100 Steel Substrate* revista: IOP Conference Series: Materials Science and Engineering: 7th International Conference on Advanced Materials and Structures - AMS 2018 28–31 March 2018, Romania BDI: IOP Science An Aparitie: 2018 Autori: 4 [link](#)
71. T Bedő, SI Munteanu, T Peng, MA Pop, C Gabor, **D Cristea**, D Munteanu. *The Influence of the Build Orientation on the Tensile Strength and the Hardness of the Polyamide Parts Made by Selective Laser Sintering Technology* revista: Bulletin of the Transilvania University of Brasov. Engineering Sciences. Series I BDI: EBSCO issn: 2065-2119 An Aparitie: 2018 Autori: 7 [link](#)
72. Patru, M., **Cristea, D.**, Ghiuta, I., Munteanu, D. *The Effect Of AlN/Ti Interlayers On The Mechanical And Tribological Behaviour Of DLC Coatings* revista: European Conference on Heat Treatment 2015 and 22nd Heat Treatment and Surface Engineering from Tradition to Innovation Congress, IFHTSE 2015; Venice; Italy; May 2015; BDI: Scopus issn: 978-889899003-0 An Aparitie: 2015 Autori: 4 [link](#)
73. A Nitoi, **D Cristea**, MA Pop, T Bedo, B Varga, D Munteanu. *Aluminum based metastable alloys for additive manufacturing* revista: IOP Conference Series: Materials Science and Engineering 682 BDI: Scopus issn: 1757-899X An Aparitie: 2019 Autori: 6 [link](#)

74. Daniel Cristea, MA Pop, C Faraian, D Munteanu. *The influence of additive manufacturing parameters on the structural and mechanical properties of acrylonitrile butadiene styrene (ABS) parts produced by fused filament fabrication* revista: IOP Conference Series: Materials Science and Engineering 682 BDI: Scopus issn: 1757-899X An Aparitie: 2019 Autori: 4 [link](#)

Data: 09.01.2023

Semnatura:

Cristea

Cristea