

Lucrari stintifice relevante(selectie)

Prof.dr.ing. Doina RADUCANU

Conducator teze de doctorat

1	Journal ranking (RED zone)	Raducanu, D. at all. Characterization of a Biodegradable Mg-Alloy after PBF-LB/M Processing for custom-shaped implants, Materials 2024 , 17(7), 1682; https://doi.org/10.3390/ma17071682
2	Journal ranking (RED zone)	Raducanu, Doina; Nocivin, Anna; Cojocaru, Vasile Danut.; Serban, Nicolae; Zarnescu-Ivan, Nicoleta; Irimescu, Raluca E.; Galbinasu, B.M. <i>Microstructural Considerations of a Multi-Pass Rolled Ti-Nb-Ta-Zr Alloy</i> , Materials , 2023 , Vol. 16, P. 3208
3	Journal ranking (YELLOW zone)	Raducanu, D. at all; <i>Mechanical Alloying Process Applied for Obtaining a New Biodegradable Mg-xZn-Zr-Ca Alloy</i> . Metals 2022 , 12(1), 132; https://doi.org/10.3390/met12010132
4	Journal ranking (RED zone)	Raducanu, D.; Cojocaru, Vasile Danut; Raducanu, Vlad Andrei; Nocivin, Anna; Serban, Nicolae; Cinca, Ion; Cojocaru, Elisabeta Mirela; Moldovan, Laurentiu; Trisca-Rusu, Corneliu <i>Design and optimization of a Curved-Crease-Folding process applied to a light metallic structure</i> , PROCESSES, Volume: 9, Issue: 7, Pages: 1110, 2021, Factor de impact 2019: 2.753
5	Journal ranking (RED zone)	D. Raducanu, V.D. Cojocaru, A. Nocivin, I. Cinca, N. Serban, E.M. Cojocaru. <i>β-Phase Stability of Two Biomedical β-Titanium Alloys During Severe Plastic Deformation</i> , JOM-US, 72 (8) 2020, 2937-2948, ISSN 1047-4838, DOI:10.1007/s11837-020-04235-z; ISI-Web of Science/Science Citation Index Exp - WOS:000537349600003; Factor de impact 2019: 2,029
6	Journal ranking (RED zone)	D. Raducanu, V.D. Cojocaru, A. Nocivin, I. Cinca, N. Serban, E.M. Cojocaru. <i>Surface Modifications of Biomedical Gum-Metal-Type Alloy by Nano Surface—Severe Plastic Deformation</i> , JOM-US, 71 (11) 2019, 4114-412, ISSN 1047-4838, DOI:10.1007/s11837-019-03667-6; ISI-Web of Science/Science Citation Index Expanded - WOS:000491296400040; Factor de impact 2019: 2,029
7	Journal ranking (RED zone)	Raducanu, D. Cojocaru, V.D. , Nocivin, A., Serban, N. , Cojocaru, E.M. <i>Cinca, I. Contributions to Mechanical Characteristics Improvement of Some Biomedical TNTZ Alloys by Adding Fe, Si, and O: A Comparative Study</i> , JOM-US, Volume 71, Issue 1, 1 January 2019, Pages 264-271, DOI: 10.1007/s11837-018-3091-x
8	Journal ranking (YELLOW zone)	A. Nocivin, V.D. Cojocaru, D. Raducanu* , I. Cinca, M.L. Angelescu, I. Dan, N. Serban, E.M. Cojocaru. <i>Finding an Optimal Thermo-Mechanical Processing Scheme for a Gum-Type Ti-Nb-Zr-Fe-O Alloy</i> , Journal of Materials Engineering and Performance, 26 (9) 2017, 4373-4380, ISSN 1059-9495, DOI:10.1007/s11665-017-2863-8; * main author.
9	Journal ranking (RED zone)	D. Raducanu, V.D. Cojocaru, A. Nocivin, D.M. Gordin, I. Cinca. <i>Effects of cold-rolling deformation on texture evolution and mechanical properties of Ti-29Nb-9Ta-10Zr alloy</i> , Materials Science and Engineering A, 689 (689) 2017, 25-33, ISSN 0921-5093, DOI:10.1016/j.msea.2017.02.039
10	Journal ranking (RED zone)	V.D. Cojocaru, D. Raducanu* , D.M. Gordin, I. Cinca. <i>Texture evolution during ARB (Accumulative Roll Bonding) processing of Ti-10Zr-5Nb-5Ta alloy</i> , Journal of Alloys and Compounds, 546, 2013 , 260-269, DOI: 10.1016/j.jallcom.2012.08.103; * main author.
11	Journal ranking (RED zone)	V.D. Cojocaru, D. Raducanu* , D.M. Gordin, I. Cinca. <i>Texture in ultra-strength Ti-25Ta-25Nb alloy strips</i> , Journal of Alloys and Compounds, 576, 2013 , 170-176, DOI: 10.1016/j.jallcom.2013.04.125; * main author.
12	Journal ranking (RED zone)	D. Raducanu, E. Vasilescu, V.D. Cojocaru, I. Cinca, P. Drob, C. Vasilescu, S.I. Drob. <i>Mechanical and corrosion resistance of a new nanostructured Ti-Zr-Ta-Nb alloy</i> , Journal of the Mechanical Behavior of Biomedical Materials, 4 (7) 2011 , 1421-1430, DOI:10.1016/j.jmbbm.2011.05.012;
13	Journal ranking (YELLOW zone)	D. Raducanu, A. Cimpean, E. Vasilescu, V.D. Cojocaru, I. Cinca, P. Drob, S. Ivanescu. <i>Corrosion behaviour and biocompatibility of a new dental noble AuPdAgTi alloy</i> , Materials and Corrosion-Werkstoffe und Korrosion, 61 (9) 2010 , 775-782, DOI:10.1002/maco.201005636;

LISTA DE LUCRARI
Prof.dr.ing. Doina RADUCANU
-Conducator teze de doctorat-

I. TEZA (E) DE DOCTORAT (T)

- T1. *Cercetări privind influența deformării plastice și a tratamentelor termice asupra proprietăților electrice, magnetice și a gradului de texturare al benzilor de transformator pentru industria electrotehnică*, Universitatea POLITEHNICA București, 1990.

II. CĂRȚI PUBLICATE (C)

Ca – Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

- Ca1. **D. Raducanu**, A. Nocivin, V.D. Cojocaru, I. Cinca. *Notiuni de biomecanica pentru ingineria materialelor*, Ed. PRINTECH, 2009, ISBN 978-606-521-262-6 (pag. 136);

Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

- Cb1. A. Nocivin, V.D. Cojocaru, I. Cinca, **D. Raducanu**. *Nanomateriale si nanotehnologii*, Ed. PRINTECH, 2010, ISBN 978-606-521-503-0 (pag. 156);
- Cb2. 1. **D. Raducanu**, A. Nocivin, V.D. Cojocaru, I. Cinca, *Notiuni de biomecanica pentru ingineria materialelor*, Ed. Printech, 2009, ISBN 978-606-521-262-6
- Cb3. **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Cap. 29.2 Materiale cu comportare atipica la sollicitari mecanice*, TRATAT DE STIINTA SI INGINERIA MATERIALELOR, Vol. 3, Metale. Aliaje. Materiale speciale. Materiale compozite, Ed. AGIR, 2009, ISBN 978-973-720-261-1, ISBN 978-973-720-064-0 (pag. 24);
- Cb4. **D. Raducanu**, I. Cinca, A. Nocivin, V.D. Cojocaru, et al. *Materiale nanostructurate biocompatibile pentru aplicatii medicale*, Vol. I, Ed. PRINTECH, 2008, ISBN 978-606-521-002-8 (pag. 163);
- Cb5. **D. Raducanu**, I. Cinca, A. Nocivin, V.D. Cojocaru, et al. *Materiale nanostructurate biocompatibile pentru aplicatii medicale. Contributii la dezvoltarea domeniului*, Vol. II, Ed. PRINTECH, 2008, ISBN 978-606-521-007-3 (pag. 203);
- Cb6. **D. Raducanu**, V.D. Cojocaru, I. Cinca, A. Nocovin, et al. *Retea integrata de cercetare pentru constituirea unei platforme tehnologice de biomateriale avansate compatibila EuMaT*, Ed. PRINTECH, 2007, ISBN 978-973-718-768-0 (pag. 85);
- Cb7. **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Elemente de design folosite in ingineria materialelor*, Ed. Cartea Universitara, 2007, ISBN 978-973-731-503-8 (pag. 142);
- Cb8. **D. Raducanu**, *Medii solide deformabile. Comportarea la deformare a materialelor metalice*, Ed. Cartea Universitara, 2006, ISBN 978-973-455-0, 136 pagini, cod CNCIS:113
- Cb9. **Doina Răducanu**, Eugen Cazimirovici, Ion Ciucă, V.D. Cojocaru, Ionel Negulescu, Lucia Angelescu, *Principii teoretice, tipuri de teste și aplicații practice în mecanica ruperii*, Ed. Printec, 1999, ISBN 973-9475-50-7;
- Cb10. Daniel Bunea, **Doina Răducanu**, Ana Nocivin, Ion Ciucă, Vasile Antoniac, *Implant Materials*, Ed. Printec., 1999, ISBN 937-9475-85-X ;
- Cb11. Donel Basuc, Lucia Angelescu, Ion Ciucă, N. Ghiban, **Doina Răducanu**, *Forming of Metals* Ed. Printec, 1998, ISBN 973-9402-51-8;
- Cb12. Eugen Cazimirovici, Ionel 11. Negulescu, Mihai Târcolea, **Doina Răducanu**, *Teoria și tehnologia deformării prin tragere* Editura Tehnică – Buc., 1990, ISBN 973-31-0266-0;

I - Culegeri și îndrumare publicate (separate în edituri cu ISBN și în tipografii locale/de instituții sau de uz intern).

1. **Doina Răducanu**, *Prelucrarea plastică a metalelor*, Editura UPB, 1996;
 2. **Doina Răducanu**, *Mecanica ruperii-principii teoretice fundamentale*, Editura UPB, 1996;
 3. Nicolae Ghiban, **Doina Răducanu**, Lucia Angelescu, *Metal Forming-Elements of Theory of Plasticity*, Editura UPB, 1996;
 4. Eugen Cazimirovici, Ionel Negulescu, **Doina Răducanu**, Ion Ciucă, Lucia Angelescu, Ion Cinca, *Teoria și tehnologia laminării și tragerii-Lucrări de laborator*, Editura UPB;
 5. Lucia Angelescu Nicolae Ghiban, Donel Basuc, **Doina Răducanu**, Ionel Negulescu, Brândușa Ghiban, *Metal Forming-Applications*, Editura UPB, 1997;
-

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

III. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță).

- Ris1. **Raducanu, Doina**; Nocivin, Anna; Cojocaru, Vasile Danut.; Serban, Nicolae; Zarnescu-Ivan, Nicoleta; Irimescu, Raluca E.; Galbinas, B.M. *Microstructural Considerations of a Multi-Pass Rolled Ti-Nb-Ta-Zr Alloy*, **Materials**, **2023**, Vol. 16, P. 3208
- Ris2. **Raducanu, D.** at all. Characterization of a Biodegradable Mg-Alloy after PBF-LB/M Processing for custom-shaped implants, **Materials** **2024**, 17(7), 1682; <https://doi.org/10.3390/ma17071682>
- Ris3. **Raducanu, D.** at all; *Mechanical Alloying Process Applied for Obtaining a New Biodegradable Mg-xZn-Zr-Ca Alloy*. **Metals** **2022**, 12(1), 132; <https://doi.org/10.3390/met12010132>
- Ris4. **Raducanu, D.**, Cojocaru, V.D., Nocivin, A., Cinca, I., Serban, N., Cojocaru, E.M. *Surface Modifications of Biomedical Gum-Metal-Type Alloy by Nano Surface—Severe Plastic Deformation*, JOM, DOI <https://doi.org/10.1007/s11837-019-03667-6>; Online ISSN 1543-1851, First Online 25 July 2019, Print ISSN 1047-4838
- Ris5. E.M. Cojocaru, **D. Raducanu**, N. Vintila, S.S. Alturaihi, N. Serban, A.C. Berbecaru, V.D. Cojocaru. *Influence of ageing treatment on microstructural and mechanical properties of a solution treated UNS S32750/EN 1.4410/F53 Super Duplex Stainless Steel (SDSS) alloy*, Journal of Materials Research and Technology, 9 (4) 2020, 8592-8605, ISSN 2238-7854, DOI:10.1016/j.jmrt.2020.05.127; ISI-Web of Science/Science Citation Index Expanded; Factor de impact 2019: 5,289
- Ris6. **D. Raducanu**, V.D. Cojocaru, A. Nocivin, I. Cinca, N. Serban, E.M. Cojocaru. *β -Phase Stability of Two Biomedical β -Titanium Alloys During Severe Plastic Deformation*, JOM-US, 72 (8) 2020, 2937-2948, ISSN 1047-4838, DOI:10.1007/s11837-020-04235-z; ISI-Web of Science/Science Citation Index Expanded - WOS:000537349600003; Factor de impact 2019: 2,029
- Ris7. **Raducanu, D.** Cojocaru, V.D., Nocivin, A., Serban, N., Cojocaru, E.M., Cinca, I. Contributions to Mechanical Characteristics Improvement of Some Biomedical Ti-Zr Alloys by Adding Fe, Si, and O: A Comparative Study, JOM, Volume 71, Issue 1, 1 January 2019, Pages 264-271, DOI: 10.1007/s11837-018-3091-x
- Ris8. Articole Alturaihi, S.S., Alluaibi, M.H. Email Author, Cojocaru, E.M. Email Author, **Raducanu, D.** Email Author *Microstructural changes occurred during hot-deformation of sdss f55 (Super-duplex stainless steel) alloy*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Volume 81, Issue 1, 2019, Pages 150-160
- Ris9. V.D. Cojocaru, N. Serban, M.L. Angelescu, E.M. Cojocaru, I. Cinca, **D. Raducanu**, A.N. Vintila. Effect of short duration solution treatment at temperatures below 1000 degrees C on sigma-phase precipitation in a super duplex stainless steel alloy, MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, 45 (5) 2018, 530-537, ISSN 0933-5137, DOI:10.1002/mawe.201700280; ISI-Web of Science/Science Citation Index Expanded - WOS:000433499500004; Factor de impact 2017: 0,625
- Ris10. V. Mitran, V. Dinca, R. Ion, V.D. Cojocaru, P. Neacsu, C.Z. Dinu, L. Rusen, S. Brajnicov, A. Bonciu, M. Dinescu, **D. Raducanu**, I. Dan, A. Cimpean. Graphene nanoplatelets-sericin surface-modified Gum alloy for improved biological response, RSC Advances, 8 (33) 2018, 18492-18501, ISSN 2046-2069, DOI:10.1039/c8ra01784k; ISI-Web of Science/Science Citation Index Expanded - WOS:000433428300037; Factor de impact 2017: 2,936
- Ris11. Cojocaru V. D., Serban N., Angelescu, M. L., Cojocaru, E. M., Cinca I, **Raducanu, D.**, Vintila, A. N. *Effect of short duration solution treatment at temperatures below 1000 degrees C on sigma-phase precipitation in a super duplex stainless steel alloy* MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK Volume: 49 Issue: 5 Pages: 530-537 Special Issue: SI DOI: 10.1002/mawe.201700280
- Ris12. A. Nocivin, V.D. Cojocaru, **D. Raducanu**, I. Cinca, M.L. Angelescu, I. Dan, N. Serban, E.M. Cojocaru. *Finding an Optimal Thermo-Mechanical Processing Scheme for a Gum-Type Ti-Nb-Zr-Fe-O Alloy*, Journal of Materials Engineering and Performance, 26 (9) 2017, 4373-4380, ISSN 1059-9495, DOI:10.1007/s11665-017-2863-8
- Ris13. A. Nocivin, I. Cinca, **D. Raducanu**, V.D. Cojocaru, I.A. Popovici. *Mechanical properties of a Gum-type Ti-Nb-Zr-Fe-O alloy*, International Journal of Minerals Metallurgy and Materials, 24 (8) 2017, 909-917, ISSN 1674-4799, DOI:10.1007/s12613-017-1477-3;
- Ris14. V.D. Cojocaru, **D. Raducanu**, M.L. Angelescu, A.N. Vintila, N. Serban, I. Dan, E.M. Cojocaru, I. Cinca. *Influence of Solution Treatment Duration on Microstructural Features of an Industrial Forged UNS S32750/1.4410/F53 Super Duplex Stainless Steel (SDSS) Alloy*, JOM-US, 69 (8) 2017, 1439-1445, ISSN 1047-4838, DOI:10.1007/s11837-017-2372-0;
-

- Ris15. **D. Raducanu**, V.D. Cojocaru, A. Nocivin, D.M. Gordin, I. Cinca. *Effects of cold-rolling deformation on texture evolution and mechanical properties of Ti-29Nb-9Ta-10Zr alloy*, Materials Science and Engineering A, 689 (689) 2017, 25-33, ISSN 0921-5093, DOI:10.1016/j.msea.2017.02.039;
- Ris16. N. Serban, **D. Raducanu**, M. Butu, V.D. Cojocaru. *Crystallite Size and Lattice Strain Evolution in a Nanostructured 6063-T1 Aluminum Alloy Processed by Equal Channel Angular Pressing*, Materiale Plastice, 53 (1) 2016, 179-183, ISSN 0025-5289;
- Ris17. A. Nocivin, **D. Raducanu**, I. Cinca, C. Trisca-Rusu, M. Butu, I. Thibon, V.D. Cojocaru. *X-ray Diffraction Study and Texture Evolution for a Ti-Nb-Ta Biomedical Alloy Processed by Accumulative Roll Bonding*, Journal of Materials Engineering and Performance, 24 (4) 2015, 1587-1601, ISSN 1059-9495, DOI:10.1007/s11665-015-1414-4;
- Ris18. I. Cinca, A. Nocivin, **D. Raducanu**, T. Gloriant, D.M. Gordin, I. Dan, A. Caprarescu, V.D. Cojocaru. *XRD and nanoindentation testing of thermo-mechanically processed Ti-29Nb-9Ta-10Zr alloy*, Kovove Materialy-Metallic Materials, 53 (1) 2015, 17-26, ISSN 0023-432X, DOI:10.4149/km-2015-1-17;
- Ris19. **D. Raducanu**, C. Vasilescu, A. Nocivin, S.I. Drob, I. Cinca, D.M. Gordin, M. Marcu, V.D. Cojocaru. *Promoting Structural and Anticorrosive Performances via Accumulative Roll Bonding to a Ti-Ta-Nb Alloy*, International Journal of Electrochemical Science, 10 (5) 2015, 4346-4358, ISSN 1452-3981;
- Ris20. N. Serban, **D. Raducanu**, V.D. Cojocaru. *X-Ray diffraction study and die geometry effect on structural and mechanical characteristics of a nanosized severely deformed 6063 aluminum alloy*, Optoelectronics and Advanced Materials, Rapid Communications, 9 (9-10) 2015, 1197-1203, ISSN 1842-6573;
- Ris21. A. Nocivin, **D. Raducanu**, I. Cinca, C. Trisca-Rusu, M. Butu, I. Thibon, V.D. Cojocaru. *X-ray diffraction study and texture evolution for a Ti-Nb-Ta biomedical alloy processed by Accumulative Roll Bonding*, Journal of Materials Engineering and Performance, 24 (4) 2015, 1587-1601, DOI:10.1007/s11665-015-1414-4, ISSN 1059-9495;
- Ris22. N. Serban, **D. Raducanu**, V.D. Cojocaru, M. Butu. *Structural and mechanical properties investigations in an ultrafine-grained 6063-T1 aluminum alloy produced by Severe Plastic Deformation*, Revista de Materiale Plastice, 52 (4) 2015, 546-552, ISSN 0025-5289;
- Ris23. R.M. Angelescu, **D. Raducanu**, V.D. Cojocaru, M.L. Angelescu, M. Butu, I. Cinca, I. Dan. *Microstructural and mechanical evaluation of a Ti-Nb-Ta alloy*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 77 (3) 2015, 221-228, ISSN 1454-2331;
- Ris24. R.M. Angelescu, C. Cotrut, A. Nocivin, V.D. Cojocaru, **D. Raducanu**, M.L. Angelescu, I. Cinca. *Mechanical, structural and corrosion analysis of a Ti-Nb-Zr-Fe alloy designated to oral implantology*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 77 (3) 2015, 237-243, ISSN 1454-2331;
- Ris25. R.M. Angelescu, **D. Raducanu**, C. Cotrut, V.D. Cojocaru, M.L. Angelescu, I. Cinca, N. Serban, *In-vitro corrosion behaviour of some titanium alloys designated to oral implantology*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 77 (4) 2015, 321-328, ISSN 1454-2331;
- Ris26. I. Cinca, **D. Raducanu**, A. Nocivin, A. Caprarescu, V.D. Cojocaru. *Structural and mechanical evolution of the thermo-mechanical processed Ti-46Al-6.5Nb alloy*, Kovove Materialy-Metallic Materials, 52 (3) 2014, 171-178, ISSN 0023-432X, DOI:10.4149/km.2014.3.171;
- Ris27. C. Tabirca, **D. Raducanu**, V.D. Cojocaru, I. Cinca, C.I. Nae, A. Caprarescu. *X-ray diffraction investigations of A Ti-29Nb-9Ta-10Zr thermo-mechanical processed alloy*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 76 (1) 2014, 219-226, ISSN 1454-2331;
- Ris28. V.D. Cojocaru, I. Thibon, **D. Raducanu**, I. Cinca, T. Gloriant, D.M. Gordin, I. Cinca. *Evaluation of developed texture during cold-rolling deformation of Ti-Nb-Ta-Zr biocompatible alloy*, Conference: 7th International Conference on Materials Structure & Micromechanics of Fracture – MSMF7, Location: Brno CZECHIA Date: JUL 01-03, 2013; Key Engineering Materials, 592-593 (592-593) 2014, 366-369, DOI:10.4028/www.scientific.net/KEM.592-593.370, ISSN 1662-9795;
- Ris29. C.M. Tabirca, T. Gloriant, D.M. Gordin, I. Thibon, **D. Raducanu**, I. Cinca, C.I. Nae, A. Caprarescu, V.D. Cojocaru. *Recrystallization temperature influence upon structural changes of 90% cold rolled Ti-29Nb-9Ta-10Zr biocompatible alloy*, Conference: 7th International Conference on Materials Structure & Micromechanics of Fracture – MSMF7, Location: Brno CZECHIA Date: JUL 01-03, 2013; Key Engineering Materials, 592-593 (592-593) 2014, 370-373, DOI:10.4028/www.scientific.net/KEM.592-593.370, ISSN 1662-9795;
- Ris30. V.D. Cojocaru, **D. Raducanu**, T. Gloriant, D.M. Gordin, I. Cinca. *Effects of cold-rolling deformation on texture evolution and mechanical properties of Ti-29Nb-9Ta-10Zr alloy*, Materials Science and Engineering A, 586 (586) 2013, 1-10, ISSN 0921-5093, DOI:10.1016/j.msea.2013.08.010;
- Ris31. C. Tabirca, **D. Raducanu**, T. Gloriant, D.M. Gordin, V.D. Cojocaru, I. Cinca, I. Dan, A. Caprarescu. *Structural investigation of thermo-mechanically processed Ti-29Nb-9Ta-10Zr alloy using X-ray diffraction*, Conference: 8th International Conference on Materials Science and Engineering – BRAMAT 2013, Location: Brasov

- ROMANIA Date: FEB 27 MAR 02, 2013; Journal of Optoelectronics and Advanced Materials, 15 (7-8) 2013, 739 - 743, ISSN 1454-4164;
- Ris32. V.D. Cojocaru, **D. Raducanu**, C. Vasilescu, I. Cinca, P. Drob, E. Vasilescu, S.I. Drob. *Improvement of the corrosion resistance and structural and mechanical properties of a titanium base alloy by thermo-mechanical processing*, Materials and Corrosion-Werkstoffe und Korrosion, 64 (6) 2013, 500-508, ISSN 0947-5117, DOI:10.1002/maco.201206577;
- Ris33. V.D. Cojocaru, **D. Raducanu**, D.M. Gordin, I. Cinca. *Texture in ultra-strength Ti-25Ta-25Nb alloy strips*, Journal of Alloys and Compounds, 576 (576) 2013, 170-176, ISSN 0925-8388, DOI:10.1016/j.jallcom.2013.04.125;
- Ris34. I. Cinca, **D. Raducanu**, A. Nocivin, V.D. Cojocaru. *Formation of nano-sized grains in Ti-10Zr-5Nb-5Ta biomedical alloy processed by accumulative roll bonding (ARB)*, Kovove Materialy-Metallic Materials, 51 (3) 2013, 165-172, ISSN 0023-432X, DOI:10.4149/km.2013.3.165;
- Ris35. V.D. Cojocaru, **D. Raducanu**, D.M. Gordin, I. Cinca. *Texture evolution during ARB (Accumulative Roll Bonding) processing of Ti-10Zr-5Nb-5Ta alloy*, Journal of Alloys and Compounds, 546 (546) 2013, 260-269, ISSN 0925-8388, DOI:10.1016/j.jallcom.2012.08.103;
- Ris36. V.D. Cojocaru, **D. Raducanu**, I. Cinca, A. Caprarescu. *Texture analysis for a SPD processed Ti-10Zr-5Nb-5Ta alloy*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 75 (2) 2013, 127-140, ISSN 1454-2331;
- Ris37. C. Tabirca, C. Dumitrescu, L. Angelescu, **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Structural investigation of a Ti-25Ta-25Nb alloy using advanced analysis techniques*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 75 (1) 2013, 217-222, ISSN 1454-2331;
- Ris38. V.D. Cojocaru, **D. Raducanu**, T. Gloriant, I. Cinca. *Texture evolution in a Ti-Ta-Nb alloy processed by severe plastic deformation*, JOM-US, 64 (5) 2012, 572-581, ISSN 1047-4838, DOI:10.1007/s11837-012-0312-6;
- Ris39. Popa, M; Vasilescu, E; Drob, P., **Raducanu, D**; Calderon Moredo, JM; Ivanescu, S; Vasilescu, C; Drob *Microstructure, mechanical, and anticorrosive properties of a new Ti-20Nb-10Zr-5Ta alloy based on nontoxic and nonallergenic elements* ;SI Source: METALS AND MATERIALS INTERNATIONAL Volume: 18 Issue: 14 Pages: 639-645 DOI: 10.1007/s12540-012-4026-7 Published: AUGUST 2012;
- Ris40. Scarisoreanu, ND; Andrei, A; Birjega, R; Pascu, R; Craciun, F; Galassi, C; **Raducanu, D**; Dinescu *Electrical and optical investigations on Pb1-3x/2LaxZr0.2Ti0.8O3 thin films obtained by radiofrequency assisted pulsed laser deposition* ;M Source: THIN SOLID FILMS Volume: 520 Issue: 14 Special Issue: SI Pages: 4568-4571 DOI: 10.1016/j.tsf.2011.11.066 Published: MAY 1 2012;
- Ris41. Popescu, V.; **Raducanu, D.**; Popescu *Optical Properties of PbS Powders Obtained by Chemical Precipitation*. L.Source: Chalcogenide Letters Volume: 9 Issue: 5 Pages: 175-183 Published: MAY 2012;
- Ris42. V.D. Cojocaru, **D. Raducanu**, T. Gloriant, E. Bertrand, I. Cinca. *Structural observations of twinning deformation mechanism in a Ti-Ta-Nb alloy*, Conference: 4th International Conference on Advanced Materials and Structures – AMS 2011, Location: Timisoara ROMANIA Date: OCT 27-28, 2011; Solid State Phenomena, 188 (188) 2012, 46-51, DOI:10.4028/www.scientific.net/SSP.188.46, ISSN 1662-9779;
- Ri43. **D. Raducanu**, V.D. Cojocaru, I. Cinca, I. Dan. *Thermomechanical processing of a biocompatible Ti-Ta-Nb alloy*, Conference: 4th International Conference on Advanced Materials and Structures – AMS 2011, Location: Timisoara ROMANIA Date: OCT 27-28, 2011; Solid State Phenomena, 188 (188) 2012, 59-64, DOI:10.4028/www.scientific.net/SSP.188.59, ISSN 1662-9779;
- Ris44. V.D. Cojocaru, **D. Raducanu**, I. Cinca, A. Caprarescu. *Texture analysis by (110) pole figure for a SPD processed Ti-25Ta-25Nb alloy*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 74 (4) 2012, 213-222, ISSN 1454-2331;
- Ris45. A. Vulcan, **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Study of texture patterns for a Ti-Ta-Nb alloy processed by Accumulative Roll-Bonding (ARB)*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 74 (3) 2012, 107-114, ISSN 1454-2331;
- Ris46. A. Vulcan, **D. Raducanu**, V.D. Cojocaru, I. Cinca, L. Angelescu. *X-ray diffraction of a Ti-Ta-Nb alloy processed by severe plastic*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 74 (2) 2012, 269-276, ISSN 1454-2331;
- Ris47. **D. Raducanu**, E. Vasilescu, V.D. Cojocaru, I. Cinca, P. Drob, C. Vasilescu, S.I. Drob. *Mechanical and corrosion resistance of a new nanostructured Ti–Zr–Ta–Nb alloy*, Journal of the Mechanical Behavior of Biomedical Materials, 4 (7) 2011, 1421-1430, ISSN 1751-6161, DOI:10.1016/j.jmbbm.2011.05.012;
- Ri48. V.D. Cojocaru, T. Gloriant, D.M. Gordin, E. Bertrand, **D. Raducanu**, I. Cinca, I. Dan. *Evaluation of mechanical properties for a Ti-Ta-Nb biocompatible alloy*, Conference: 7th International Conference on Materials Science and Engineering – BRAMAT 2011, Location: Poiana Brasov ROMANIA Date: FEB 24-26, 2011; Journal of Optoelectronics and Advanced Materials, 13 (7) 2011, 912 - 916, ISSN 1454-4164;
-

- Ris49. A. Vulcan, **D. Raducanu**, V.D. Cojocaru, I. Cinca. *The evolution of mechanical characteristics for a thermomechanical processed Ti-Ta-Zr alloy*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 73 (3) 2011, 229-236, ISSN 1454-2331;
- Ris50. N. Serban, V.D. Cojocaru, **D. Raducanu**, M. Butu, R. Saban, E. Ibraim. *Microstructural observations in a commercial AA 6063 aluminium alloy processed by ECAE (part I)*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 73 (2) 2011, 237-250, ISSN 1454-2331;
- Ris51. C. Dumitrescu, **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Investigations of mechanical properties for a Ti-Ta-Nb alloy*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 73 (2) 2011, 221-230, ISSN 1454-2331;
- Ris52. **D. Raducanu**, A. Cimpean, E. Vasilescu, V.D. Cojocaru, I. Cinca, P. Drob, S. Ivanescu. *Corrosion behaviour and biocompatibility of a new dental noble AuPdAgTi alloy*, Materials and Corrosion-Werkstoffe und Korrosion, 61 (9) 2010, 775-782, ISSN 0947-5117, [DOI:10.1002/maco.201005636](https://doi.org/10.1002/maco.201005636);
- Ris53. E. Vasilescu, P. Drob, **D. Raducanu**, V.D. Cojocaru, I. Cinca, D. Iordachescu, R. Ion, M. Popa. *In vitro biocompatibility and corrosion resistance of a new implant titanium base alloy*, Journal of Materials Science - Materials in Medicine, 21 (6) 2010, 1959-1968, ISSN 0597-4530, [DOI:10.1007/s10856-010-4057-x](https://doi.org/10.1007/s10856-010-4057-x);
- Ris54. A. Nocivin, **D. Raducanu**, I. Cinca, V.D. Cojocaru, E. Vasilescu, A. Cimpean, "New method of material selection applied to 3D structured hard tissue design – Part II", Metalurgia International, (15) 2010, nr. 11, 18 - 23, 6 pg., ISSN 1582-2214 (cotat ISI, Science Citation Index Expanded, Thomson Scientific, cod CNCIS: 480, categoria A, factor impact 0,173;
- Ris55. V.D. Cojocaru, A. Nocivin, **D. Raducanu**, I. Cinca, "Ni-Ti-Cu alloy mechanical behaviour during cyclic testing", Metalurgia International, (15) 2010, nr. 8, 24 - 27, 4 pg., ISSN 1582-2214 (cotat ISI, Science Citation Index Expanded, Thomson Scientific, cod CNCIS: 480, categoria A, factor impact 0,173;
- Ris56. V.D. Cojocaru, N. Serban, **D. Raducanu**, I. Cinca, R. Saban. *Microstructural observations of fracture surfaces for a 6063-T1 ECAP processed aluminum alloy*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 72 (4) 2010, 163-172, ISSN 1454-2331;
- Ris57. V.D. Cojocaru, **D. Raducanu**, N. Serban, I. Cinca, R. Saban. *Mechanical behaviour comparison between un-processed and ECAP (Equal Channel Angular Pressing) processed 6063-T835 aluminum alloy*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 72 (3) 2010, 193-203, ISSN 1454-2331;
- Ris58. **D. Raducanu**, A. Cimpean, E. Vasilescu, V.D. Cojocaru, I. Cinca, P. Drob, S. Ivanescu, "Corrosion behaviour and biocompatibility of a new dental noble AuPdAgTi alloy", Materials and Corrosion, 9 (61) 2010, 775 - 782, 8 pg., ISSN 0947-5117 (print), 1521-4176 (online) (cotat ISI, Science Citation Index Expanded, Thompson scientific, factor impact 0,836;
- Ris59. E. Vasilescu, P. Drob, **D. Raducanu**, V.D. Cojocaru, I. Cinca, D. Iordachescu, R. Ion, M. Popa, "In vitro biocompatibility and corrosion resistance of a new implant titanium base alloy", ", Journal of Materials Science - Materials in Medicine, Vol. 21 (6) 2010, 1959 - 1968, 10 pg., ISSN 0597-4530 (cotat ISI, Science Citation Index Expanded, Thomson Scientific, cod CNCIS: 431, cat A, factor impact 1,955;
- Ris60. A. Nocivin, **D. Raducanu**, A. Cimpean, F. Grigore, D. Cojocaru, I. Cinca, **New methods of material selection applied to 3d structured hard tissue design Part I**, Metalurgia International, volXIV, , nr 11/2009, ISSN 1582 – 2214, pp 42-48 ISI;
- Ris61. Vasilescu, E., Drob, P., **Raducanu, D.**, Cinca, I., Mareci, D., Calderon Moreno, J.M., Popa, M., Vasilescu, C., Mirza Rosca, J.C., 2009. Effect of thermo-mechanical processing on the corrosion resistance of Ti6Al4V alloys in biofluids. Corros. Sci. 51, 2885-2896., impact factor 2,316;
- Ris62. **D. Raducanu**, A. Nocivin, A. Santana Lopez, J. Marza Rosca, D. Monopoli Forleo, E.R. Grau-Bassas, D. Gonzales Martin, V.D. Cojocaru, I. Cinca, "Design and experimentation of a titanium alloy new type implant with nanostructured surfaces", Metalurgia International, (14) 2009, Sp. Issue nr. 10, 14 - 17, 4 pg., ISSN 1582-2214 (cotat ISI, Science Citation Index Expanded, Thomson Scientific, cod CNCIS: 480, categoria A;
- Ris63. A.Buzaianu, E.Vasile, R.D.Trisca, R.M.Piticescu, **D.Raducanu**, V.D.Cojocaru, C.Moldovan, Rusu, Analisis of Hybrid and Nanostructured Biocompatible Materials by High Resolution SEM, Buletinul Institutului Politehnic Iasi, Tom LV (LIV), 2009, Volum 1, pag.138-146, ISSN 1453-1690, pag.138-146, ISSN 1453-1690, Indexată BDI si ISI Master Journal List;
- Ris64. E. Vasilescu, P. Drob, **D. Raducanu**, I. Dan, C. Vasilescu, *Corrosion resistance of some thermo-mechanical treated titanium bioalloy depending on pH of Ringer solution*, Revista de Chimie (București), 60 (3), 2009, 241-247, Revista indexata ISI, Index 0,261 pe 2007;
- Ris65. **D. Raducanu**, V.D.Cojocaru, I.Cinca, E.Vasilescu, P.Drob, I.Dan, M. Negreanu C. Rusu Trisca, A. Nocivin Surface finish procedures applied on a new TiAlNb implant type, *Metalurgia International*(14), pp 29-33, 10/2009, ISSN 1582 – 2214, ISI, cod CNCIS:480;
- Ris66. **D. Raducanu**, A. Cimpean, V.D.Cojocaru, I.Cinca, I. Demetrescu, S. Ivanescu, A.Buzaianu, M. Negreanu Biocompatible response to SBF coated tialnb alloy, *Metalurgia International*(14), pp 44-47, 08/2009, ISSN 1582 – 2214, ISI, cod CNCIS: 480;

- Ris67. D. Ionita, **D. Raducanu**, M. Prodana, I. Demetrescu : *The manipulation of properties of Ti bioalloys at micro and nanoscale using etching procedures* Key Engineering Materials(ISI) Vols. 396-398 (2009) pp 393-396, Trans Tech Publications, Switzerland;
- Ris68. M.V. Popa, **D. Raducanu**, E. Vasilescu, P. Drob, V.D. Cojocaru, C. Vasilescu, S. Ivanescu, J. C. Rosca. *Mechanical and corrosion behaviour of a Ti-Al-Nb alloy after deformation at elevated temperatures*, Materials and Corrosion-Werkstoffe und Korrosion, 59 (12) 2008, 919-928, ISSN 0947-5117, [DOI:10.1002/maco.200805003](https://doi.org/10.1002/maco.200805003);
- Ris69. R. Vasilescu-Mirea, A. Bara, A. Bondar, M. Iordoc, I. Iordache, M. Codescu, **D. Raducanu**, N. Stancu, D. Patroi, E. Manta, V.D. Cojocaru, I. Cinca. *Aliaje de CoCrTi si TiAlNb acoperite cu carbon folosite pentru aplicatii biologice*, Revista Romana de Materiale, 38 (2) 2008, 134-142, ISSN 1583-3186;
- Ris70. **D. Raducanu**, D. Iordachescu, V.D. Cojocaru, V. Mitran, S. Ivanescu, I. Cinca. *A new AuPdAgTi-type high noble class alloy - obtaining and initial characterization*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 70 (3) 2008, 77-84, ISSN 1454-2331;
- Ris71. E. Vasilescu, **D. Raducanu**, P. Drob, V.D. Cojocaru, C. Vasilescu. *Influence of beta stabilizers on the corrosion resistance of a biocompatible titanium alloy*, Revista de Chimie, 58 (12) 2007, 1244-1248, ISSN 0034-7752;
- Ris72. **D. Raducanu**, V.D. Cojocaru, I. Cinca, I. Ichim, A. Schin. *Materials development on the nanoscale by Accumulative Roll Bonding procedure*, Journal of Optoelectronics and Advanced Materials, 9 (11) 2007, 3346-3349, ISSN 1454-4164;
- Ris73. **Raducanu Doina**, Dan I., Cinca Ion, Ivanescu S. , Cojocaru V. Danut: *Mechanical proprieties and microstructural features of a new solder Ag-Au-Pd-Ti alloy*, Metalurgia International(ISI) 12/2008, pp22-25, ISSN 1582 – 2214;
- Ris74. **D Raducanu**, Dan I., Cinca Ion, Ivanescu S., V. D.Cojocaru, C.R. Trisca c., A.Nocivin: *A new AuPdAgTi-type high noble class alloy – synthesis and mechanical characteristics*, pp46, Metalurgia International(ISI) 10/2008, ISSN 1582-2214;
- Ris75. Mihai Vasile Popa, Paula Drob, **Doina Răducanu**, Juan Rodriguez Castro, Julia Claudia Mirza Rosca *Evaluarea microstructurii și a comportării la coroziune a unui aliaj de titan în fluide biologice simulate*, Rev. De Chimie, (ISI) 58, Nr.2, 2007, pag. 179-182, ISSN 0034-7752, (citat ISI, factor impact 0,287)cod CNCIS:471;
- Ris76. **D Răducanu**, Ecaterina Vasilescu, Paula Drob, Ion Cinca, Cora Vasilescu *Comportarea electrochimică în soluție Ringer a unui aliaj de implant pe bază de titan, tratat termic*, Rev. De Chimie, 57, Nr.12, 2006, pag. 1221-1225, ISSN 0034-7752, (ISI) , cod CNCIS:471;
- Ris77. Santana Lopez, J. Mirza-Roșca, E. Vasilescu, **Doina Răducanu**, L. Angelescu *Technical and functional properties of some biocompatible thin films*, Materials Chemistry and Physics(ISI), nr. 86, Elsevier, 2004, p.38-43, citat ISI, ISSN 0254-0584;
- Ris78. **Doina Răducanu** *Some Features of Zircalloy 4 Cold Deformability*, Sci. Bulletin, U.P.B., B Series, Vol. 64, nr.1, pag.61-66, 2002;
- Ris79. **Doina Răducanu** *Aspects of deformation behaviour for a Fe-Co-Ni-Ti alloy*, Met Int.2003, nr 2, p11-16, Issn1582-2214, ISSN 1582-2214, cod CNCIS 480;
- Ris80. **Doina Răducanu**, Gabriela Iordache, *Some Properties of Samarium and Neodymium Permanent Magnets used as Dental Materials*; Part Three: Data about Retention Forces Sci. Bulletin, U.P.B. B Series, Vol.62, nr.4, pag. 93-97, 2000;
- Ris81. **Doina Răducanu**, Gabriela Iordache, *Some Properties of Samarium and Neodymium Permanent Magnets used as Dental Materials*; Part Two: Magnetic Properties of NdFeB Alloy Sci. Bulletin, U.P.B., B Series, vol.62, nr.1-2, pag.51-59, 2000;
- Ris82. **Doina Răducanu**, Gabriela Iordache, *Some Properties of Samarium and Neodymium Permanent Magnets used as Dental Materials*; Part one: Applications, Crystal Structure and Magnetic Properties, Sci. Bulletin, U.P.B., B Series, vol. 61, nr. 1-2, pag. 215-222, 1999;
- Ris83. **D. Raducanu**, V.D. Cojocaru, I. Ciuca. *Aspects concerning the specific features of the indentation-induced deformation in Ti-Ni alloys*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 61 (3-4) 1999, 127-133, ISSN 1454-2331;
- Ris84. Roxana Rucsanda, **Doina Răducanu**, Sorin Ciucă, *The Calculation of the Volumic Ratio in a Three Phase System* Sci. Bulletin. U.P.B., B Series, Vol. 60, nr. 3-4, pag. 143-153, 1998
- Ris85. **Doina Răducanu**, *Some Aspects on Anomalous Plastic Proprieties in Ti-Ni Alloys* Sci. Bulletin, U.P.B., B Series, Vol. 60, nr. 1-2, pag. 147-153, 1998;
- Ris86. Mihaiela Isac, **Doina Răducanu**, *Research on Carburizing the Surface of Steel OLC Microalloyed with Niobium in a Controlled Atmosphere* Material Science and Technology, Vol. 2, pag.102/104, 1986;

Rns - Reviste de specialitate de circulație națională recunoscute de CNCIS.

- Rns1. **D. Raducanu**, A. Nocivin, A. Santana Lopez, J. Marza Rosca, D. Monopoli Forleo, E.R. Grau-Bassas, D. Gonzales Martin, V.D. Cojocaru, I. Cinca. *Design and experimentation of a titanium alloy new type implant*

- with nanostructured surfaces, *Metalurgia* 62 (1) 2010, 13-17, ISSN 0461-9579 (cod CNCIS: 481; categoria B+);
- Rns2. A. Buzaianu, E. Vasile, R.D. Trisca, R.M. Piticescu, **D. Raducanu**, V.D. Cojocaru, C. Moldovan. *Analysis of Hybrid and Nanostructured Biocompatible Materials by High Resolution SEM*, Buletinul Institutului Politehnic Iasi, Sectia Stiinta si Ingineria Materialelor, LIV (1) 2009, 138-146, ISSN 1453-1690 (cod CNCIS: 86; categoria B);
- Rns3. A. Nocivin, **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Stress relaxation in titanium alloys at high temperatures*, Analele Universitatii Ovidius, Seria: Inginerie Mecanica, IX (1) 2007, 23-27, ISSN 1224-1776 (cod CNCIS: 603, categoria B+);
- Rns4. **D. Raducanu**, V. D. Cojocaru, C.R. Trisca, A. Nocivin, I. Cinca. *A Ti-Al-Nb Alloy Investigated after Deformation at High Temperature*, Acta Universitatis Pontica Euxinus, VI (8) 2007, 65-71, ISSN 1312-1669;
- Rns5. **D. Raducanu**, T. Savu, V.D. Cojocaru, I. Cinca. *Aplicatie de instrumentatie virtuala pentru deformarea plastica a materialelor*, *Metalurgia* 59 (6) 2007, 10-13, ISSN 0461-9579 (cod CNCIS: 481; categoria B+);
- Rns6. **A. Buzaianu**, D. Raducanu, R. Trusca, E. Vasile, V.D. Cojocaru, I. Rusu. *Versatil Titanium Alloy for Biomedical Application to Spinal Implants*, Buletinul Institutului Politehnic Iasi, Sectia Stiinta si Ingineria Materialelor, LIII-LVII (4) 2007, 31-39, ISSN 1453-1690 (cod CNCIS: 86; categoria C);
- Rns7. E. Vasile, A. Buzaianu, **D. Raducanu**, V.D. Cojocaru, I. Rusu, E. Alexandrescu. *General Investigations of complex Co-W Alloys to Spinal Implants*, Buletinul Institutului Politehnic Iasi, Sectia Stiinta si Ingineria Materialelor, LIII-LVII (4) 2007, 321-327, ISSN 1453-1690 (cod CNCIS: 86; categoria C);
- Rns8. Anna Nocivin, **Doina Răducanu** *Some Research Concerning the Susceptibility to Cyclic Loading of some Ti base Alloys*, Analele Univ. Ovidius, seria Ing. Mecanica, Vol. VIII, nr.1, 2006, Ovidius Uni. Press-ISSN 1223-7221, p.85-90, ISSN 1223-7221, cod CNCIS:603;
- Rns9. V. D. Cojocaru, **D. Raducanu**, I. Cinca, A. Nocivin. *Procesarea la rece a unor aliaje biocompatibile pe baza de metale nobile*, *Metalurgia*, 58 (10) 2006, 5-12, ISSN 0461-9579 (cod CNCIS: 481; categoria B);
- Rns10. I. Cinca, **D. Raducanu**, V.D. Cojocaru. *Procesarea la cald a unor aliaje biocompatibile pe baza de metale nobile*, *Metalurgia*, 58 (9) 2006, 11-14, ISSN 0461-9579 (cod CNCIS: 481; categoria B);
- Rns11. **Doina Răducanu**, T. Savu, M. Târcolea, I. Cinca, D. Cojocaru *Solutions for data acquisition system in material science*, Bull. Inst. Pol. Iasi, tom LII(LVI), Fasc.1, 2006, ISSN 1453-1690, cod CNCIS:86 ;
- Rns12. **D. Raducanu**, D. Bunea, V.D. Cojocaru, I. Cinca. *High-temperature plastic deformation behaviour of commercially titanium used for dental implants*, *Metalurgia International*, 10 (4) 2005, 3-7, ISSN 1582-2214 (cod CNCIS: 480; categoria C);
- Rns13. **D. Raducanu**, M. Tarcolea, V.D. Cojocaru, P. Marian, T. Iordanescu. *Aspecte referitoare la formarea structurilor mixte in oteluri microaliatate cu continut scazut de carbon (X70)*, *Metalurgia*, 57 (2) 2005, 22-30, ISSN 0461-9579 (cod CNCIS: 481; categoria C);
- Rns14. **D. Raducanu**, L. M. Angelescu, I. Cinca, V.D. Cojocaru. *Comportarea la deformare plastica a titanului comercial utilizat pentru implanturi dentare. Partea a-II-a. Deformarea plastica la rece*, *Metalurgia*, 56 (11) 2004, 10-15, ISSN 0461-9579, cod CNCIS: 481;
- Rns15. **D. Raducanu**, L. M. Angelescu, I. Cinca, V.D. Cojocaru. *Comportarea la deformare plastica a titanului comercial utilizat pentru implanturi dentare. Partea a-I-a. Deformarea plastica la cald*, *Metalurgia*, 56 (10) 2004, 12-17, ISSN 0461-9579, cod CNCIS: 481;
- Rns16. **D. Raducanu**, L. M. Angelescu, I. Cinca, V.D. Cojocaru. *Comportarea la deformare plastica a titanului comercial utilizat pentru implanturi dentare. Partea a-I-a. Deformarea plastica la cald*, *Metalurgia*, 56 (10) 2004, 12-17, ISSN 0461-9579, cod CNCIS: 481;
- Rns17. **Doina Răducanu**_Lucia Angelescu, Ecaterina Vasilescu, Paula Drob *Elemente de retenție folosite în protetica dentară cu depunere de straturi biocompatibile* Rev. *Metalurgia*, Vol.54, nr.3, pag. 21-25, 2002;
- Rns18. **Doina Răducanu**_Lucia Angelescu, Ecaterina Vasilescu, Paula Drob, *Prosthetic retention units with biocompatible thin films*, Rev.*Metelurgia International*, nr.4, vol.6, pag.35-38,2001;
- Rns19. **Doina Răducanu** *Rare Earth Permanent Magnets used in Prosthetic*, *Metalurgia International*, Vol. VI, nr. 1, pag. 28-32, 2001 ;
- Rns20. **Doina Răducanu**, *Aliaje cu proprietăți de plasticitate atipică* Rev. *Metalurgia*, 53, Vol. 5, pag. 35-38, 2001;
- Rns21. **Doina Răducanu**, *Caracterizarea structurală a unor aliaje cu proprietăți de plasticitate atipică* Analele Univ. Ovidius-Constanța, Seria Inginerie Mecanică, Vol.II, pag. 93-99, Ovidius Univ. Press, 2000, ISSN-123-722;
- Rns22. Constantin Dumitrescu, **Doina Răducanu**, Dionezie Bojin, Ion Pencea, Ion Ciucă, Aurelian Răducanu, *Aspecte structurale ale unor aliaje moderne cu memoria formei* Rev. *Metalurgia*, nr.4, pag.122/125, 1998;
- Rns23. **Doina Răducanu**, Constantin Dumitrescu, Daniel Bunea, Nicolae Ghiban, Ion Ciucă, Aurelian Răducanu, *Transformări structurale în aliajele de titan determinate de prelucrarea termo-mecanică I. Prelucrarea termo-mecanică în domeniul fazic β* Rev. *Metalurgia*, nr.3, pag.82/85, 1998;

- Rns24. Ion Ciucă, **Doina Răducanu**, Constantin Dumitrescu, Aurelian Răducanu, *Transformări structurale în aliajele de titan determinate de prelucrarea termo-mecanică II. Prelucrarea termo-mecanică în domeniul fazic α, β* Rev. Metalurgia, nr.3, pag.87/89, 1998;
- Rns25. **Doina Răducanu**, Roxana Ruxanda, Aurelian Răducanu, *Variația texturii cristalografice în oțelul electrotehnic deformat plastic la cald* Rev. Metalurgia, nr.1, pag. 57/62, 1997;
- Rns26. **Doina Răducanu**, Roxana Ruxanda, *Posibilități de modelare a creșterii grăunților cristalini la recristalizarea secundară* Rev. Metalurgia, nr.2, pag. 17/20, 1997;
- Rns27. **Doina Răducanu**, Roxana Ruxanda, Grigoraș Benescu, Aurelian Răducanu, Ion Cincă, *Unele trăsături specifice comportamentului la deformare al superaliajelor* Rev. Metalurgia, nr.3, pag. 12/16, 1997;
- Rns28. **Doina Răducanu**, Lucia Angelescu, Nicolae Ghiban, Aurelian Răducanu, Ion Ciucă, *Unele aspecte privind plasticitatea asistată de transformări a superaliajelor* Rev. Metalurgia, nr.7-8, pag.31/41, 1997;
- Rns29. Constantin Dumitrescu, **Doina Răducanu**, Roxana Ruxanda, Ghe.Ioniță, Dionezie Bojin *Studii și cercetări experimentale privind noi materiale cu memoria formei* Rev. Anale Târgoviște-1997;
- Rns30. Roxana Ruxanda, **Doina Răducanu**, *Creșterea filmului de carbură dispus pe limita de grăunte în timpul hipercarburării unui oțel*, Rev. Metalurgia, nr.8-9, pag. 103/107, 1996;
- Rns31. **Roxana Ruxanda**, Doina Răducanu, *Modificări ale straturilor superficiale ale unui oțel înalt aliat în mediu intens carburigen*, Rev. Metalurgia, nr.10, pag. 53/60, 1996;
- Rns32. Roxana Ruxanda, **Doina Răducanu**, *Coroziunea materialelor metalice; Implicații microstructurale I* Rev. Metalurgia, nr.11, pag. 22/28, 1996;
- Rns33. **Doina Răducanu**, Roxana Ruxanda, Daniel Bunea, Ion Ciucă, *Unele particularități ale elaborării superaliajelor pe bază de titan* Rev. Metalurgia, nr.11, pag. 63/67, 1996;
- Rns35. Roxana Ruxanda, **Doina Răducanu**, *Coroziunea materialelor metalice; Implicații microstructurale II* Rev. Metalurgia, nr.12, pag. 32/38, 1996;
- Rns36. Roxana Ruxanda, **Doina Răducanu**, *Morfologia particulelor de carburi formate în stratul hipercarburat al unui oțel slab aliat*, Rev. Metalurgia, nr.12, pag. 53/57, 1996;
- Rns37. **Doina Răducanu**, *Un criteriu de control al granulației pentru oțelul electrotehnic texturat* Rev. Metalurgia, nr.1-2, pag. 35/38, 1994;
- Rns38. **Doina Răducanu**, Ghe. Aristotel, *Metode de calcul pentru funcția de distribuție a orientării cristalografice* Rev. Metalurgia, nr.1-2, pag. 38/42, 1994;
- Rns39. **Doina Răducanu**, Ion Ciucă, Aurelian Răducanu, *Unele aspecte ale transformărilor structurale în oțelul aliat cu 3% siliciu* Rev. Metalurgia, nr.11-12, pag.58/63, 1994;
- Rns40. **Doina Răducanu**, *Metode matematice de analiză a texturii II. Coeficienții funcției de distribuție a orientării cristalografice* Rev. Metalurgia, nr.4, pag. 11-13, 1993;
- Rns41. **Doina Răducanu**, Gh. Aristotel, Aurelian Răducanu, *Determinări experimentale în vederea obținerii monocristalelor din oțel aliat cu 3% siliciu*, Rev. Metalurgia, nr.7, pag.26/28, 1993;
- Rns42. **Doina Răducanu**, *Posibilități de modelare a creșterii grăunților cristalini la recristalizare* Rev. Metalurgia, nr.11, pag. 29/31, 1993;
- Rns43. Eugen Cazimirovici, **Doina Răducanu**, Ion Ciucă, *Cercetări experimentale privind deformarea plastică prin laminare a oțelului ER309NbLC*, Rev. Metalurgia, nr.9, pag.31/34, 1992;
- Rns44. **Doina Răducanu**, *Metode matematice de analiză a texturii I. Funcția de distribuție a orientării cristalografice*, Rev. Metalurgia, nr.11-12, pag.21/24, 1992;
- Rns45. Mihaela Isac, **Doina Răducanu**, *Utilizarea modelării matematice asistate de calculator în tehnologia tratamentelor termice aplicate oțelurilor de înaltă rezistență microaliate* Rev. Metalurgia (41) nr.9, pag. 436/439, 1989;
- Rns46. Mihaela Isac, **Doina Răducanu**, *Considerații privind modelarea reologică a comportării la deformare plastică a materialelor metalice*, Rev. Metalurgia (39) nr.6, pag. 273/276, 1987;
- Rns47. Mihail Adrian, **Doina Răducanu**, Mihai Târcolea, Vasile Vasilescu, *Considerații privind laminarea cu răcire dirijată a oțelului beton* Rev. Metalurgia (39) nr.8, pag.386/389, 1987;
- Rns48. Doina Răducanu, *Procedee de obținere a benzilor de oțel electrotehnic cu grăunți orientați* Rev. Metalurgia (39) nr.9, pag. 439/442, 1987;
- Rns49. **Doina Răducanu**, Mihaela Isac, Valeriu Popa, S Roman, *Influența parametrilor deformării plastice și a tratamentului termic asupra proprietăților mecanice ale oțelului 40Cr130* Rev. Metalurgia (38) nr.4, pag. 180/183, 1986;
- Rns50. Mihaela Isac, **Doina Răducanu**, Elene Sârghe, *Cercetări privind morfologia și cinetica procesului de cementare cu carbon în atmosferă controlată a oțelului OLC15 microaliat cu niobiu* Rev. Metalurgia (37) nr.1, pag.43/46, 1985;
- Rns51. Mihaela Isac, **Doina Răducanu**, Elene Sârghe, *Cercetări privind aplicarea tratamentului de cementare cu carbon în atmosferă controlată a oțelului OLC15 microaliat cu niobiu* Rev. Metalurgia (37) nr.2, pag.102/104, 1985;
-

- Rns52. **Doina Răducanu**, Mihaela Isac, Nicolae Boroghina, *Utilizarea fenomenului Moire la determinarea mărimii și distribuției deformațiilor specifice în materialele metalice* Rev. Metalurgia (37) nr.3, pag.158/160, 1985;
- Rns53. **Doina Răducanu**, Mihaela Isac, Mihai Târcolea, Teodor Bănică, *Utilizarea experimentului programat pentru determinarea durității și mărimii stratului decarburat la deformarea plastică a oțelului de arc 51VC11A* Rev. Metalurgia (37) nr.5, pag.247/279, 1985;
- Rns54. Mihail Adrian, **Doina Răducanu**, Ovidiu Budnaru, *Metodă de calcul pentru sistemul de calibrare pregătitor oval-rotund fals*, Rev. Metalurgia (36) nr.1, pag.18/22, 1984;
- Rns55. **Doina Răducanu**, Mihaela Isac, Ion Nedelcu, *Influența efectului Bauschinger și a regimului de reduceri parțiale la deformarea plastică a oțelului 8Cr170*, Rev. Metalurgia (36) nr.3, pag.130/134, 1984;
- Rns56. Mihail Adrian, **Doina Răducanu**, Ovidiu Budnaru, *Metodă de calcul pentru obținerea oțelului rotund prin sistemul de calibrare oval-rotund fals*, Rev. Metalurgia (35) nr.11, pag.564/566, 1983

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (V)

Vis- Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a publicațiilor pe baza unor criterii de performanță.

- Vis1. V.D. Cojocaru, **D. Raducanu**, D.M. Gordin, I. Cinca, I. Thibon, A. Caprarescu. *Recrystallization temperature influence upon texture evolution of a SPD processed Ti-Nb-Ta-Zr-O alloy*, 6th International Conference on Nanomaterials by Severe Plastic Deformation - NanoSPD 2014, IOP Conference Series: Materials Science and Engineering, 63, 012151, DOI:10.1088/1757-899X/63/1/012151; ISSN 1757-8981, 30.06-04 July 2014, Metz, France; Recenzii/Indexari: SCOPUS - DOC ID: 84906351216;
- Vis2. A. Vulcan, **D. Raducanu**, V.D. Cojocaru, I. Cinca, C. Dumitrescu. *X-ray investigations during severe plastic deformation of a β -Ti-25Ta-25Nb alloy*, E-Health and Bioengineering Conference - EHB 2011, 1-4, 24-26 November 2011, Iasi, Romania; ISI-Web of Science/Science Citation Index Expanded - [WOS:000304806300051](#); Recenzii/Indexari: SCOPUS - DOC ID: [84857804839](#); IEEE - DOC ID: [6150359](#);
- Vis3. **V.D. Cojocaru**, D. Raducanu, N.D. Scarisoreanu, I. Cinca. *Characterization of Ti-O-N films deposited on Ti-Ta-Nb substrate by plasma laser deposition*, 34th International Semiconductor Conference - CAS 2011, 265-268, DOI:10.1109/SMICND.2011.6095787; IEEE catalog number: CFP11CAS-PRT, ISBN 978-1-61284-171-7, ISSN 1545-827X, 17-19 October 2011, Sinaia, Romania; ISI-Web of Science/Science Citation Index Expanded - [WOS:000320322000060](#); Recenzii/Indexari: SCOPUS - DOC ID: [84255177274](#); IEEE - DOC ID: [6095787](#);
- Vis4. V.D. Cojocaru, **D. Raducanu**, T. Gloriant, I. Cinca. *Texture analysis for a nanocrystalline Ti-Ta-Nb alloy*, 34th International Semiconductor Conference - CAS 2011, 295-298, DOI:10.1109/SMICND.2011.6095796; IEEE catalog number: CFP11CAS-PRT, ISBN 978-1-61284-171-7, ISSN 1545-827X, 17-19 October 2011, Sinaia, Romania; ISI-Web of Science/Science Citation Index Expanded - [WOS:000320322000067](#); Recenzii/Indexari: SCOPUS - DOC ID: [84255198105](#); IEEE - DOC ID: [6095796](#);
- Vis5. A. Vulcan, V.D. Cojocaru, **D. Raducanu**, I. Cinca, C. Dumitrescu. *Mechanical behaviour of a thermo-mechanical processed Ti-25Ta-5Zr biocompatible alloy*, 3rd International Conference on Advanced Materials and Systems - ICAMS 2010, 227-232, ISSN 2068-0783, 16-18 September 2010, Bucharest, Romania; ISI-Web of Science/Science Citation Index Expanded - [WOS:000291667100038](#); Recenzii/Indexari: SCOPUS - DOC ID: [79954551059](#);
- Vis6. C. Dumitrescu, V.D. Cojocaru, **D. Raducanu**, I. Cinca, A. Vulcan. *Mechanical behaviour comparison between two β -type Ti alloys*, 3rd International Conference on Advanced Materials and Systems - ICAMS 2010, 187-192, ISSN 2068-0783, 16-18 September 2010, Bucharest, Romania; ISI-Web of Science/Science Citation Index Expanded - [WOS:000291667100031](#); Recenzii/Indexari: SCOPUS - DOC ID: [79959853764](#);

Vi - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

- Vi1. **D. Raducanu**, V.D. Cojocaru, C. Trisca-Rusu, N. Serban, R.A. Mudrac, I. Dan, A. Nocivin, *Processing and Properties of a biodegradable Mg-Zn-Ca-Zr Alloy*, 12th International Conference on Advanced Computational Engineering and Experimenting ACE-X 2018, 1-5 July 2018, Amsterdam, The Netherlands
- Vi2. M.L. Angelescu, V.D. Cojocaru, N. Serban, **D. Raducanu**, I. Cinca, A. Vintila, E.M. Cojocaru, *Observations on the effect of forging temperature on the microstructure of super-duplex stainless steel UNS S32760*, 19th World Congress on Materials Science and Engineering, June 11-13, 2018, Barcelona, Spain, Journal of Material Sciences & Engineering, ISSN 2169-0022, vol. 7, p. 173, DOI: 10.4172/2169-0022-C8-114
- Vi3. V.D. Cojocaru, **D. Raducanu**, M.L. Angelescu, N. Serban, A.N. Vintila, E.M. Cojocaru, I. Cinca, *σ -phase precipitation in UNS S32760 F55 Super Duplex Stainless Steel (SDSS) alloy during thermo-mechanical*

- processing, International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS: Processing, Fabrication, Properties, Applications - THERMEC'2018, July 8-13, 2018, Paris, France
- Vi4. N. Serban, **D. Raducanu**, V.D. Cojocaru, I. Cinca, M.L. Angelescu, Improving mechanical biocompatibility of a new degradable magnesium alloy via severe plastic deformation, 18th SGEM International Scientific Multidisciplinary Conference on EARTH and Geo Sciences, SGEM VIENNA GREEN SESSIONS 2018, Vienna, Austria, 3-6 December 2018
- Vi5. V.D. Cojocaru, **D. Raducanu**, I. Cinca, I. Dan, L. Angelescu, D.M. Gordin. *Textural features of cold-rolled Ti-31.7Nb-6.21Zr-1.4Fe-0.16O alloy*, Conference: 17th International Conference on the Strength of Materials, Location: Brno, Cehia, Date: 09.08-14.08.2015
- Vi6. N. Serban, **D. Raducanu**, V.D. Cojocaru. Microstructure and mechanical properties control for commercial aluminium alloys through SPD/ECAP processing, Conference: 17th International Conference on the Strength of Materials, Location: Brno, Cehia, Date: 09.08-14.08.2015
- Vi7. N. Serban, **D. Raducanu**, V.D. Cojocaru. *Process parameters estimation using computer simulation for a commercial 6063-T1 aluminium alloy severely deformed by ECAP*, Conference: 17th International Conference on the Strength of Materials, Location: Brno, Cehia, Date: 09.08-14.08.2015
- Vi8. **D. Raducanu**, A. Nocivin, I. Cinca, L. Angelescu, N. Serban, V.D. Cojocaru. *Characteristics of ultrafine/nanocrystalline Ti-20Nb-5Ta alloy processed by severe plastic deformation*, Conference: 6th International Conference on Advanced Nanomaterials, Location: Aveiro, Portugal, Date: 20.07-22.07.2015
- Vi9. R.M. Angelescu, **D. Raducanu**, L.M. Angelescu, I. Cinca, V.D. Cojocaru, C. Cotrut, N. Serban. *Microstructural And Corrosion Analysis Of A Ti-Nb-Ta Biocompatible Dental Implant Alloy*, Conference: 17th International Conference on Environmental Science and Biological Engineering, Location: London, United Kingdom, Date: 25.07 - 26.07.2015
- Vi10. V.A. Raducanu, M.L. Angelescu, I. Cinca, V.D. Cojocaru, **D. Raducanu**. *Flexible Design Solutions for Complex Free Form Geometries Aimed to Optimize Performances and Resources Consumption*, 17th Int. Conf. on Environmental Science and Engineering, London, 25-26 iul 2015
- Vi11. A. Caprarescu, R.M. Angelescu, **D. Raducanu**, V.D. Cojocaru, L. Angelescu, I. Cinca, I. Dan. *Mechanical and structural characterization of a new Ti based implant alloy*, Conference: 9th International Conference on Materials Science and Engineering – BRAMAT 2015, Location: Braşov, Romania, Date: 05.03-07.03.2015
- Vi12. R.M. Angelescu, **D. Raducanu**, M.L. Angelescu, V.D. Cojocaru, I. Cinca, A. Caprarescu, M. Butu. *Structural characteristics of a Ti-Zr-Ta-Nb alloy, processed by Accumulative Roll Bonding (ARB)*, International Conference on Innovative Technologies – IN-TECH 2013, 17-20, ISBN 978-953-6326-88-4, 10-12 September 2014, Leiria, Portugal;
- Vi13. C.M. Tabirca, **D. Raducanu**, V.D. Cojocaru, I. Cinca, T. Gloriant, D.M. Gordin, I. Thibone, A. Caprarescu, C.I. Nae. *Recrystallization influences upon structural changes in a 90% cold-rolled Ti-Nb-Ta-Zr alloy*, International Conference on Innovative Technologies – IN-TECH 2013, 17-20, ISBN 978-953-6326-88-4, 10-13 September 2013, Budapest, Hungary;
- Vi14. M.V. Popa, E. Vasilescu, P. Drob, **D. Raducanu**, C. Vasilescu, V.D. Cojocaru, S. I. Drob. *Corrosion resistance and structural and mechanical properties of a titanium base alloy by thermo-mechanical processing*, 3rd Regional Symposium on Electrochemistry: South – East Europe, Book of Abstracts, Paper no. CPA-P-08, pag. 91, 13-17 May 2012, Bucharest, Romania;
- Vi15. E. Vasilescu, P. Drob, C. Vasilescu, S. I. Drob, **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Characterisation of corrosion stability of a new nanostructured alloy*, 2nd International Advances in Applied Physics & Materials Science Congress, Book of Abstracts APMAS 2012, Paper no. 179, pag. 129, 26-29 April 2012, Antalya, Turkey;
- Vi16. C. Dumitrescu, **D. Raducanu**, V.D. Cojocaru, D. Gordin, T. Gloriant. *Texture analysis in a Ti-25Ta-25Nb alloy*, International Conference on Innovative Technologies – IN-TECH 2011, 62-64, ISBN 978-80-904502-6-4, 01-03 September 2011, Bratislava, Slovakia;
- Vi17. V.D. Cojocaru, **D. Raducanu**, I. Cinca, I. Dan, M. Butu, C. Rusu-Trisca. *Ti-Ta-Nb ultra-thin – ultra-strength strips processed by SPD*, International Conference on Innovative Technologies – IN-TECH 2011, 89-92, ISBN 978-80-904502-6-4, 01-03 September 2011, Bratislava, Slovakia;
- Vi18. V.D. Cojocaru, **D. Raducanu**, I. Cinca, N. Scarisoreanu. *Mechanical properties evaluation for a Ti-Ta-Zr biocompatible alloy*, International Conference on Innovative Technologies – IN-TECH 2011, 85-88, ISBN 978-80-904502-6-4, 01-03 September 2011, Bratislava, Slovakia;
- Vi19. A. Vulcan, **D. Raducanu**, V.D. Cojocaru, D. Gordin, I. Thibon. *Behavior of Ti-25Ta-25Nb alloy during the severe plastic deformation (SPD)*, International Conference on Innovative Technologies – IN-TECH 2011, 283 - 286, ISBN 978-80-904502-6-4, 01-03 September 2011, Bratislava, Slovakia;
-

- Vi20. E. Bertrand, D.M. Gordin, P. Castany, T. Gloriant, D. Ioan, V.D. Cojocaru, **D. Raducanu**. *Deformation mechanisms in the Ti-25Ta-24Nb biomedical titanium alloy*, The 12th World Conference on Titanium – TITANIUM 2011, 19-24 June 2011, Beijing, China;
- Vi21. E. Bertrand, T. Gloriant, D.M. Gordin, E. Vasilescu, P. Drob, C. Vasilescu, S.I. Drob, V.D. Cojocaru, **D. Raducanu**. *Elaboration, caractérisation mécanique et corrosion d'un nouvel alliage biomédical Ti25Ta25Nb*, Conférence pluridisciplinaire sur les matériaux "MATERIAUX 2010", 18-22 Octobre 2010, Nantes, France;
- Vi22. V.D. Cojocaru, **D. Raducanu**, I. Cinca, I. Dan, A. Vulcan, V. Dogaru. *Thermomechanical processing of a Ti-Ta-Nb alloy*, International Conference Biomaterials, Tissue Engineering & Medical devices – BiomMedD'2010, 215, ISSN 2069-0193, 23-25 September 2010, Sinaia, Romania;
- Vi23. A. Vulcan, V.D. Cojocaru, **D. Raducanu**, I. Cinca. *Initial mechanical characterization of a Ti-25Ta-5Zr biocompatible alloy*, Advances in Engineering and Management - ADEM 2010, 85-86, ISBN 978-606-510-899-8, 19-21 May 2010, Drobeta Turnu Severin, Romania;
- Vi24. V. Dogaru, V.D. Cojocaru, **D. Raducanu**, I. Cinca. *Strain rate influence upon mechanical properties of an as-cast Ti-25Ta-5Zr biocompatible alloy*, Advances in Engineering and Management - ADEM 2010, 49-50, ISBN 978-606-510-899-8, 19-21 May 2010, Drobeta Turnu Severin, Romania;
- Vi25. C. Dumitrescu, V.D. Cojocaru, **D. Raducanu**, I. Cinca. *Cold roll-milling and mechanical properties of a Ti-25Ta-25Nb biocompatible alloy*, Advances in Engineering and Management - ADEM 2010, 51-52, ISBN 978-606-510-899-8, 19-21 May 2010, Drobeta Turnu Severin, Romania;
- Vi26. M.V. Popa, E. Vasilescu, P. Drob, C. Vasilescu, **D. Raducanu**, V.D. Cojocaru. *Corrosion resistance of advanced processing titanium bioalloys in physiological environment*, 17th International Corrosion Congress, 06-10 October, Las Vegas, USA, 2008, Ed. ICC, paper 2544;
- Vi27. **D. Raducanu**, A. Cimpean, V.D. Cojocaru, I. Cinca, M. Codescu, A. Bara, D. Patroi, M. Popescu Negreanu. *Biocompatible thin films at nanoscale*, International Conference on Material Science and Engineering - BRAMAT 2007, 22-24 February 2007, Brasov, Romania, Cd-ROM; ISSN 1223-9631;
- Vi28. **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Nanostructured materials types for medical devices*, International Conference Biomaterials & Medical Devices - BiomMedD'2006, 9-12 September 2006, Iasi, Romania, ISBN 978-973-718-566-2;
- Vi28. **D. Raducanu**, V.D. Cojocaru, I. Cinca. *The use of titanium alloys for spinal implants*, International Conference Biomaterials & Medical Devices - BiomMedD'2006, 9-12 September 2006, Iasi, Romania, ISBN 978-973-718-566-2;

Vn - Volumele unor manifestări științifice naționale.

- Vn1. V.D. Cojocaru, **D. Raducanu**, I. Cinca, S. Ivanescu, I. Dan, A. Nocivin. *A New Implant -Type for Spine Surgery*, Conference Excellence Research - A way to INNOVATION, Vol. I, 17-1/6, 27-29 Iulie 2008, Brasov, ISSN 1844-7090;
- Vn2. I. Cinca, **D. Raducanu**, A. Campean, V.D. Cojocaru, S. Ivanescu, A. Buzaianu, M. Negreanu. *Features of Osteoblasts Cell Response to Biocompatible Coated Titanium Alloys*, Conference Excellence Research - A way to INNOVATION, Vol. I, 40-1/6, 27-29 Iulie 2008, Brasov, ISSN 1844-7090;
- Vn4. **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Nanostructured Materials Obtained by SPD (Severe Plastic Deformation) Procedures*, Conference Excellence Research – A way to ERA, Vol. I, 40-1/6, 24-26 Octombrie 2007, Brasov, ISSN 1843-5904;
- Vn5. **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Aliaje de titan folosite la realizarea unor tipuri de implantate*, Conferinta: Cercetarea de Excelenta - premiza favorabila pentru dezvoltarea spatiului romanesc de cercetare, Vol. I, 17-1/6, 22-24 Octombrie 2006, Brasov, ISBN 978-973-718-554-9;
- Vn6. **D. Raducanu**, T. Savu, V.D. Cojocaru, I. Cinca, I. Negulescu. *Aplicatie de instrumentatie virtuala pentru procesul de deformare plastica prin tragere*, Conferinta Nationala de Instrumentatie Virtuala – CNIV-2006, Editia a-III-a, 41-45, 29 Mai 2006, Bucuresti, Cd-ROM;
- Vn7. T. Savu, **D. Raducanu**, I. Cinca, V.D. Cojocaru. *Laborator telematic integrat de instrumentatie virtuala pentru stiinta materialelor*, Conferinta Nationala de Instrumentatie Virtuala – CNIV-2005, Editia a-II-a, 130-134, 27 Iunie 2005, Bucuresti, Cd-ROM;

V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

B - Brevete de invenție.

- B1. A. Raducanu, **D. Raducanu**, I. Cinca, V.D. Cojocaru. *COLUMN-LIKE METAL PRODUCT WITH OBLONG STAMPED PERFORATIONS, has stamped metal sheets made with numerical control*, Nr. Brevet RO132241-

- A2, Publicat 29 Nov 2017; Main IPC B44C-005/00; Indexare: Derwent Innovation Index/ISI Web of Knowledge; Derwent Primary Accession Number: 2017-807449
- B2. V.D. Cojocaru, **D. Raducanu**, I. Cinca; *Procedeu de procesare termomecanică pentru aliajul tip GUM Ti-31.7Nb-6.21Zr-1.4Fe-0.16O (wt%)*; A/00687/20/09/2017
- B3. **D. Raducanu**, V.D. Cojocaru, I. Cinca. *Process for thermal mechanical treatment of the alloy, containing titanium, tantalum and niobium*, Nr. Brevet RO128615-A2, Publicat 30 Jul 2013; Main IPC B21B-001/36; **Indexare**: Derwent Innovation Index/ISI Web of Knowledge; Derwent Primary Accession Number: [2013-M23708 \[60\]](#)
- B4. **D. Raducanu**, V.D. Cojocaru, I. Cinca, I. Dan, S. Ivanescu. *Titanium containing noble metal alloy used for making dental prostheses by metal-ceramic technology, contains gold, silver, palladium and titanium*, Nr. Brevet RO125271-A2, RO125271-B1, Publicat 30 Mar 2010; Main IPC A61C-013/08; **Indexare**: Derwent Innovation Index/ISI Web of Knowledge; Derwent Primary Accession Number: [2010-K24575 \[53\]](#)
- B5. **D. Raducanu**, V.D. Cojocaru, I. Cinca, I. Dan, S. Ivanescu. *Process for thermo-mechanically processing Ti-6Al-7Nb alloy for making spinal implants*, Nr. Brevet RO125313-A2, RO125313-B1, Publicat 30 Mar 2010; Main IPC C21D-008/00; **Indexare**: Derwent Innovation Index/ISI Web of Knowledge; Derwent Primary Accession Number: [2010-K24235 \[53\]](#)
- B6. **D. Raducanu**, L. Angelescu, V.D. Cojocaru, M.C. Bunesu, M.C. Valeanu, M. Trupina, W. Kappel, S. Alexandru, I. Ivan. *Vacuum non magnetic biocompatible layers deposition on magnetic alloy consists of cathodic spraying in a container for vapor phase deposition of titanium nitride*, Nr. Brevet RO119897-B1, Publicat 30 Mai 2005; Main IPC C23C-014/35; **Indexare**: Derwent Innovation Index/ISI Web of Knowledge; Derwent Primary Accession Number: [2005-568498 \[32\]](#)
- B7. **Doina Răducanu**, Mihaela Isac, Determinarea constantelor elastice și a deformațiilor specifice în materiale metalice pe baza fenomenului Moire, Certificat de inovator Nr.593 din 18.05.1987;
- B8. Mihaela Isac, **Doina Răducanu**, Procedeu privind intensificarea cineticii procesului de cementare cu carbon a oțelului OLC15 prin microaliere cu niobiu, Certificat de inovator Nr.594 din 18.05.1987;

A - Inovații și alte creații.

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare-inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate (Pn - nationale, Pi - internationale).

Pi - Proiecte de cercetare-dezvoltare-inovare obtinute prin competitie, pe baza de contract/grant la care am fost **DIRECTOR– Internationale**.

- Pi1 *Additive manufacturing of Magnesium-based biodegradable alloy implants, with controlled corrosion rate and infection*; **ManuNET Program**; Contract no. 207/2020-2022; Consortium partners from: Spain;
- Pi2. *Orthopaedic implants with advanced mechanical properties and high osseointegrative interfaces*; **ManuNET Program**; Contract no.143 2020; Consortium partners from: Romania and Spain 2020 – 2022
- Pi3 Porous and nanostructured magnesium biodegradable alloy implants, with bioactive nanocoatings, controlled degradation and improved osseointegration; Contract 28/2017; 2017-2019; Era.Net - ManuNet II – UEFISCDI
- Pi4. *1.Load-bearing implants functionalized of superelastic alloys* , MANU Net transnational project, MNT 7-075/20132/2013;
- Pi5. *“TiAl alloys processed to improve operating capabilities in automotive and aerospace applications”*, CNMP PN II - MNT Era-NET, Contract: MNT-7-019/2010, 2010 - 2011; (Finantare partener UPB-CEMS: 425.700,00
- Pi6. *“Advanced nanostructured metallic biomaterials for implantable medical devices”*, CNMP PN II - MNT Era-NET, Contract: MNT-7-017/2009, 2009 - 2011; (Finantare partener UPB-CEMS: 620.000,00 lei);
- Pi7. *Multifunctional nanostructured titanium implant surfaces and biomechanical considerations of animal models used in tissue engineering of bone*, MNT Era NET-Contract:18-ES-IS/2006;
- Pi8. Orthopaedic Implants with Advanced Mechanical Properties and High Osseointegrative Interfaces/ ERANET-MANUNET-III-OIAMPHOI/ contractul de finanțare nr. 143 / 2020-2022
- Pi9. Additive Manufacturing of Magnesium-based Biodegradable Implants with controlled corrosion rate and infection prevention). ERANET-MANUNET-III-AM-MBI/ contractul de finanțare nr. in atribuire/ 2020-2022

Pn - Proiecte de cercetare-dezvoltare-inovare obtinute prin competitie la care am fost **DIRECTOR proiect/– Nationale**.

- Pn1. *Structuri spatiale proiectate pentru structurice complexe, usoare, procesate prin Curved Crease folding; PN III ANCS UEFISCDI - Demonstrative experimental projects Program - 468PED/2020; 2020 – 2022*
- Pn2. *Proiectarea si experimentarea tehnologiei de procesare SMAT a suprafeței aliajului de tip GUM/112PED/2017-2019*
- Pn3. *“Noi soluții de design inteligente (adresate optimizării utilizării resurselor) pentru structuri complexe - SmartMat”, CNMP PN-II, 316/01.07.2014, UPB, 2014 – 2017-2019;*
- Pn4. *“Interactiibio / non-bio implicate in design-ul tesuturilor tari - InTesTa”, CNMP PN-II, Nr. 41-059/14.09.2007, UPB-CEMS, 2007 - 2009;; (Finantare partener UPB-CEMS: 484.362,00 lei);*
- Pn5. *“Rețea integrată de cercetare pentru constituirea unei platforme tehnologice de biomateriale avansate, compatibilă EuMaT - ADVABIOMAT”, BIOTECH CEEX06 Nr. 54/20.07.2006, UPB-CEMS, 2006 - 2008; (Finantare partener UPB-CEMS: 290.000,00 lei);*
- Pn6. *Noi biomateriale avansate, nanostructurate cu baza titan si elemente de aliere netoxice PNII.71-021/14.09.2007;*
- Pn7. *“Materiale nanostructurate biocompatibile pentru dispozitive medicale - NANOBIOIMED”, AMCSIT CEEX05 Nr. 40/3.10.2005, UPB-CEMS, 2005 - 2008;; (Finantare partener UPB-CEMS: 770.000,00 lei);*
- Pn7. *„Sistem integrat de cercetari avansate pentru biomateriale alternative cu aplicatii în stomatologie „/CEEX06/154/2006;*
- Pn8. *Dispozitive medicale implantabile pentru chirurgia coloanei /CEEX05/17/2005;*
- Pn9. *Laborator integrat, cu caracter telematic de instrumentație virtuală pentru știința materialelor /PNCDI/INFOSOC/2004;*

Pnc - Proiecte de cercetare-dezvoltare-inovare obtinute prin competitie la care am fost **responsabil**/membru in colectivul de lucru – Nationale.

- Pnc1 *Optimizarea tehnologiei de procesare termomecanică prin forjare a unor oțeluri inoxidabile tip super-duplex; Contrcat 104BG/2016; 2016-2018; UEFISCDI*
 - Pnc2 *Imbunatatirea proprietatilor de suprafata pentru un biomaterial de tip GUM prin Self-Nano-Crystallization (SNC); Contrcat 112PED/2017; 2017-2018; UEFISCDI*
 - Pnc3. *“Implanturi ortopedice obtinute din aliaje multifunctionale tip GUM - ImplantGUM”, CNMP PN-II, Nr. 213/01.07.2014, UPB-CEMS, 2014 - 2016; (Finantare partener UPB-CEMS:);*
 - Pnc4. *“Cercetarea substituiției osoase cu materiale biocompozite fabricate prin tehnici specifice metalurgiei pulberilor - BONY”, CNMP PN-II, 244/01.07.2014, UPB-CEMS, 2014 - 2016; **responsabil** (Finantare partener UPB-CEMS);*
 - Pnc5. *“Noua generație de implanturi ortopedice bazate pe noi bioaliaje de Ti cu învelișuri biomimetice hibride - OrthoBioMim”, CNMP PN-II, 239/01.07.2014, UPB-CEMS, 2014 - 2016; (Finantare partener UPB-CEM:);*
 - Pnc6. *“Strategii terapeutice pentru imbunatatirea raspunsului de vindecare a osului prin utilizarea de implanturi bioresorbabile, pe baza de magneziu, cu acoperiri bioactive - BioMagCoat”, CNMP PN-II, 195/01.07.2014, UPB-CEMS, 2014 - 2016; (Finantare partener UPB-CEMS:);*
 - Pnc7. *“Biomateriale metalice avansate, nanostructurate, pentru implante ortopedice - BioTiTaNano”, CNMP PN-II, Nr. 72-188/01.10.2008, UPB-CEMS, 2008 - 2011; (Finantare partener UPB-CEMS);*
 - Pnc8. *“Produse prietenoase mediului pe baza de acoperiri compozite polimerice conductoare pe suporturi nanostructurate cu efect antifouling si aplicatii in reducerea poluarii si a coroziunii - ProdCompoCor”, CNMP PN-II, Nr. 32-106/01.10.2008, UPB-CEMS, 2008 - 2011; (Finantare partener UPB-CEMS);*
 - Pnc9. *“Micro/nano materiale functionale inteligente - PM-SMART”, CNMP PN-II, Nr. 71-116/14.09.2007, UPB-CEMS, 2007 - 2010; **responsabil** (Finantare partener UPB-CEMS);*
 - Pnc10. *“Cercetari fundamentale si aplicative privind obtinerea produselor tubulare din oteluri de calitate superioara in vederea reducerii costurilor si ecologizarii productiei”, AMCSIT CEEX06 Nr. XC22/20.07.2006, UPB-CEMS, 2006 - 2008; (Finantare partener UPB-CEMS:);*
 - Pnc11. *“Structuri 2D si 3D din aliaje ternare biocompatibile cu memoria formei - BIOSMETA”,**responsabil** AMCSIT CEEX05 Nr. 25/3.10.2005, UPB-CEMS, 2005 - 2008; (Finantare partener UPB-CEMS);*
 - Pnc12. *“Realizarea tehnologiei de prelucrare a unor aliaje biocompatibile pe baza de metale nobile”, **responsabil** RELANSIN Nr. 2025/01.10.2004, UPB-CEMS, 2004 - 2006;*
 - Pnc13. *“Valorificarea deseurilor din aliaj Zircalloy 4 in energetica nucleara”, RELANSIN Nr. 1253/18.01.2001, CEMS – UPB, 2001 - 2003;*
 - Pnc14. *“Materiale magnetice avansate”, **responsabil** RELANSIN Nr. 766/13.09.2000, CEMS - UPB, 2000, 2001, 2002;*
-

- Pnc15. *"Realizarea aliajelor Ti-Ni cvasistoechiometrice si a aliajelor din sistemul Ti-Ni-X"*, CEMS - UPB, ORIZONT 2000, Tema A59, 545/2000, Act Adititional 1/2002;
- Pnc16. *"Realizarea aliajelor Ti-Ni cvasistoechiometrice si a aliajelor din sistemul Ti-Ni-X"*, CEMS - UPB, ORIZONT 2000, Tema A59, 545/2000, Act Adititional 1/2001;
- Pnc17. *"Cercetari privind tehnologia deformarii plastice atipice a aliajelor industriale"*, CEMS - UPB, Tema A6, 286/2000;
- Pnc18. *"Cercetari privind tehnologia deformarii plastice atipice a aliajelor industriale"*, CEMS - UPB, Tema B5, 467/1999;

Data,
19.09.2024

Semnatura,
Prof.dr.ing. Doina Raducanu