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Departamentul: Procesarea Materialelor Metalice și Ingineria Mediului

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. *Cercetari privind determinarea unor diagrame de echilibru în sistemele ternare Co-Si-X (X=Ni,Ti)*, Universitatea "Politehnica" București, 172 pg., 1998.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Cojocaru, EM (Cojocaru, Elisabeta Mirela) Nocivin, A (Nocivin, Anna) Raducanu, D (Raducanu, Doina) Angelescu, ML (Angelescu, Mariana Lucia) Cinca, I (Cinca, Ion) Balkan, IV (Balkan, Irina Varvara) Serban, N (Serban, Nicolae) Cojocaru, VD (Cojocaru, Vasile Danut) *Microstructure Evolution during Hot Deformation of UNS S32750 Super-Duplex Stainless Steel Alloy* Volume 14 Issue 14 Article Number 3916 DOI 10.3390/ma14143916 Published JUL 2021
2. Raducanu, D (Raducanu, Doina) Cojocaru, VD (Cojocaru, Vasile Danut) Raducanu, VA (Raducanu, Vlad Andrei) Nocivin, A (Nocivin, Anna) Serban, N (Serban, Nicolae) Cinca, I (Cinca, Ion) Cojocaru, EM (Cojocaru, Elisabeta Mirela) Moldovan, L (Moldovan, Laurentiu) Trisca-Rusu, C (Trisca-Rusu, Corneliu) Balkan, IV (Balkan, Irina Varvara) *Design and Optimization of a Curved-Crease-Folding Process Applied to a Light Metallic Structure PROCESSES* Volume 9 Issue 7 Article Number 1110 DOI 10.3390/pr9071110 Published JUL 2021
3. Raducanu, D (Raducanu, Doina) Cojocaru, VD (Cojocaru, Vasile Danut) Nocivin, A (Nocivin, Anna) Cinca, I (Cinca, Ion) Serban, N (Serban, Nicolae) Cojocaru, EM (Cojocaru, Elisabeta Mirela) *Beta-Phase Stability of Two Biomedical beta-Titanium Alloys During Severe Plastic Deformation JOM* Volume 72 Issue 8 Page 2937-2948 DOI 10.1007/s11837-020-04235-z Published AUG 2020
4. Cojocaru, EM (Cojocaru, Elisabeta Mirela) Raducanu, D (Raducanu, Doina) Nocivin, A (Nocivin, Anna) Cinca, I (Cinca, Ion) Vintila, AN (Vintila, Adrian Nicolae) Serban, N (Serban, Nicolae) Angelescu, ML (Angelescu, Mariana Lucia) Cojocaru, VD (Cojocaru, Vasile Danut) *Influence of Aging Treatment on Microstructure and Tensile Properties of a Hot Deformed UNS S32750 Super Duplex Stainless Steel (SDSS) Alloy METALS* Volume 10 Issue 3 Article Number 353 DOI 10.3390/met10030353 Published MAR 2020

5. Raducanu, D (Raducanu, Doina) Cojocaru, VD (Cojocaru, Vasile Danut) Nocivin, A (Nocivin, Anna) Cinca, I (Cinca, Ion) Serban, N (Serban, Nicolae) Cojocaru, EM (Cojocaru, Elisabeta Mirela) Surface Modifications of Biomedical Gum-Metal-Type Alloy by Nano Surface-Severe Plastic Deformation *JOM Volume 71 Issue 11 Page 4114-4124 DOI 10.1007/s11837-019-03667-6 Published NOV 2019*
6. Raducanu, D (Raducanu, Doina) Cojocaru, VD (Cojocaru, Vasile Danut) Nocivin, A (Nocivin, Anna) Cinca, I (Cinca, Ion) Serban, N (Serban, Nicolae) Cojocaru, EM (Cojocaru, Elisabeta Mirela) Contributions to Mechanical Characteristics Improvement of Some Biomedical TNTZ Alloys by Adding Fe, Si, and O: A Comparative Study *JOM Volume 71 Issue 1 Page 264-271 DOI 10.1007/s11837-018-3091-x Published JAN 2019*
7. Cinca, I. Nocivin, A. Raducanu, D. Gloriant, T. Gordin, D. M. Caprarescu, A. Cojocaru, V. D. *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](https://doi.org/10.4149/km_2015_1_17); ISI-Web of Science/Science Citation Index Expanded - [WOS:000350268200003](https://www.scopus.com/search/form.do?WOS:000350268200003); Factor de impact 2013: 0.546
8. 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) 2014, 4346-4358, ISSN 1452-3981; ISI-Web of Science/Science Citation Index Expanded - [WOS:000354782200056](https://www.scopus.com/search/form.do?WOS:000354782200056); Factor de impact 2013: 1.956
9. I. Cinca, A. Raducanu, M. Nicolae, V.D. Cojocaru. *Algorithmic procedures to generate spatial complex geometries*, *UPB Scientific Bulletin, Series A: Applied Mathematics and Physics*, 76 (1) 2014, 231-240, ISSN 1223-7027; ISI-Web of Science/Science Citation Index Expanded - [WOS:000332914700024](https://www.scopus.com/search/form.do?WOS:000332914700024); Factor de impact 2013: 0.280
10. 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](https://doi.org/10.4149/km.2014.3.171); ISI-Web of Science/Science Citation Index Expanded - [WOS:000329474400003](https://www.scopus.com/search/form.do?WOS:000329474400003); Factor de impact 2013: 0.546
11. Cinca, I. Raducanu, D. Nocivin, A. Gordin, D. M. Cojocaru, V. D. *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, 17-26, ISSN 0023-432X, DOI: [10.4149/km_2013_3_165](https://doi.org/10.4149/km_2013_3_165); ISI-Web of Science/Science Citation Index Expanded - [WOS:000329474400003](https://www.scopus.com/search/form.do?WOS:000329474400003); Factor de impact 2013: 0.546
12. 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](https://doi.org/10.1016/j.msea.2013.08.010); ISI-Web of Science/Science Citation Index Expanded - [WOS:000326903800001](https://www.scopus.com/search/form.do?WOS:000326903800001); Recenzii/Indexari: SCOPUS - DOC ID: [84882740245](https://www.scopus.com/search/form.do?DOCID:84882740245); Factor de impact 2012: 2,108
13. 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](https://doi.org/10.1016/j.jallcom.2013.04.125); ISI-Web of Science/Science Citation Index Expanded - [WOS:000323462500028](https://www.wos.com/000323462500028); Recenzii/Indexari: SCOPUS - DOC ID: [84877821075](https://www.scopus.com/doc/84877821075); Factor de impact 2012: 2.390
14. Tabirca, C.M.; Raducanu, D.; Gloriant, T.; Gordin, D.M.; Cojocaru, V.D.; Cîncă, I.* (reprint author); Dan, I.; Caprarescu, A. Structural investigation of thermo-mechanically processed Ti-29Nb-9Ta-10Zr alloy using X-ray diffraction Author(s): Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 15 Issue: 7-8 Pages: 739-743 Published: JUL-AUG 2013; ISSN: 1454-4164, ISI-Web of Science/Science Citation Index Expanded - [WOS:000323397900025](https://www.wos.com/000323397900025), Recenzii/Indexari: SCOPUS - DOC ID: [84883326216](https://www.scopus.com/doc/84883326216); Factor de impact 2012: 0.516
 15. V.D. Cojocaru, D. Raducanu, C. Vasilescu, I. Cîncă, 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, 64 (6) 2013, 500-508, ISSN 0947-5117, [DOI:10.1002/maco.201206577](https://doi.org/10.1002/maco.201206577); ISI-Web of Science/Science Citation Index Expanded - [WOS:000320555200008](https://www.wos.com/000320555200008); Recenzii/Indexari: SCOPUS - DOC ID: [84877260036](https://www.scopus.com/doc/84877260036); Factor de impact 2012: 1,208
 16. V.D. Cojocaru, D. Raducanu, D.M. Gordin, I. Cîncă. *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](https://doi.org/10.1016/j.jallcom.2012.08.103); ISI-Web of Science/Science Citation Index Expanded - [WOS:000311503000039](https://www.wos.com/000311503000039); Recenzii/Indexari: SCOPUS - DOC ID: [84870194409](https://www.scopus.com/doc/84870194409); Factor de impact 2012: 2.390
 17. V.D. Cojocaru, D. Raducanu, T. Gloriant, I. Cîncă. *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](https://doi.org/10.1007/s11837-012-0312-6); ISI-Web of Science/Science Citation Index Expanded - [WOS:000304447300007](https://www.wos.com/000304447300007); Recenzii/Indexari: SCOPUS - DOC ID: [84862201662](https://www.scopus.com/doc/84862201662); Factor de impact 2012: 1.053

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1. V.D. Cojocaru, D. Raducanu, I. Cîncă, 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; Recenzii/Indexari: INSPEC, SCOPUS - DOC ID: [84878866102](https://www.scopus.com/doc/84878866102);
2. C. Tabirca, C. Dumitrescu. L. Angelescu, D. Raducanu, V.D. Cojocaru, I. Cîncă. *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; Recenzii/Indexari: INSPEC, SCOPUS - DOC ID: [84874366998](https://www.scopus.com/doc/84874366998);
3. V.D. Cojocaru, D. Raducanu, I. Cîncă, 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; Recenzii/Indexari: INSPEC, SCOPUS - DOC ID: [84865102583](https://www.scopus.com/doc/84865102583);

4. 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; Recenzii/Indexari: INSPEC, SCOPUS - DOC ID: [84865102583](#);

5. 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; Recenzii/Indexari: INSPEC, SCOPUS - DOC ID: [84865142842](#);

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1. D. Raducanu, V.D. Cojocaru, I. Cinca. *Thermal treatment and heat plastic-working for Ti-25.81 Al-13.58 Nb-1.93 Ta-1.26 Cr-0.60 Ni alloy* Nr. Brevet RO129233-A2, Publicat 28 Feb 2014; Main IPC C22F-001/16; Indexare: Derwent Innovation Index/ISI Web of Knowledge; Derwent Primary Accession Number: [2014-D83724 \[16\]](#)
2. 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 \[60\]](#)
3. 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, Publicat 30 Mar 2010; Main IPC A61C-013/08; Indexare: Derwent Innovation Index/ISI Web of Knowledge; Derwent Primary Accession Number: [2010-K24575 \[53\]](#)
4. 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, Publicat 30 Mar 2010; Main IPC C21D-008/00; Indexare: Derwent Innovation Index/ISI Web of Knowledge; Derwent Primary Accession Number: [2010-K24235 \[53\]](#)

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Semnătura: