

Universitatea Națională de Știință și Tehnologie POLITEHNICA București  
Facultatea: Știința și Ingineria Materialelor  
Departamentul: Știința Materialelor Metalice, Metalurgie Fizică  
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Gradul didactic: Șef Lucrări

## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

“Contribuții la studiul caracteristicilor structurale și de exploatare ale oțelurilor inoxidabile austenitice tratate superficial cu laser”, Universitatea Politehnica București, Facultatea Știința și Ingineria Materialelor, 2010.

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

1. -

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

1. Cosmin M. Cotruț, Ungureanu E., Ionescu I.C., **Raluca I. Zamfir**, Kiss AE., Parau AC., Vladescu A, Vrânceanu MD, Saceleanu, A., *Influence of Magnesium Content on the Physico-Chemical Properties of Hydroxyapatite Electrochemically Deposited on a Nanostructured Titanium Surface*, Coatings, **2022**, Vol. 12, Iss. 8, Article No. 1097, DOI: 10.3390/coatings12081097, Research Areas: Materials Science, Physics, Web of Science Categories: Materials Science, Multidisciplinary, Materials Science, Coatings & Films Physics, Applied, WOS:000846987400001;
2. Fischer, C.A.I., Baci, F., Vrânceanu M.D., **Raluca I. Zamfir**, Costin Coman, Comaneanu, R.M., Ghergic, D.L., *Evaluation of the force retention within the telescopic crowns with different taper angles by finite element analysis*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, **2022**, 84(3), pp. 169-178, Research Areas: Chemistry; Web of Science Categories: Chemistry, Multidisciplinary; WOS:000961046800016;
3. Cosmin M. Cotruț, Ionescu, I.C., Ungureanu, E., Berbecaru A., **Raluca I. Zamfir**, Vladescu, A., Vrânceanu M.D., *Evaluation of surface modification techniques on the ability of apatite formation and corrosion behavior in synthetic body fluid: An in vitro study*, Surfaces and Interfaces, **2021**, Vol. 22, Article No. 100866, 10.1016/j.surfin.2020.100866, Research Areas Chemistry Materials Science Physics, Web of Science Categories, Chemistry, Physical Materials Science, Coatings & Films Physics, Applied Physics, Condensed Matter WOS:000615255600005;
4. Ionescu L.G., Tanase C., Vasilescu M., **Zamfir-Andronic, Raluca Ioana**, Ghiban B., *Research related to retained austenite on rail and windmill bearings*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, **2021**, Vol. 83, Iss. 2, pp. 191-200, Document Type: Article, Research Areas: Chemistry, Web of Science Categories: Chemistry, Multidisciplinary, WOS: 000661663200018;

5. Ungureanu, E., Ionescu, I.C., **Zamfir-Andronic, Raluca Ioana**, Vasilescu M., Milea C., Dobrescu M., Vranceanu M.D., Cotrut C.M., *Biofunctionalization of Ti6Al4V surface with ag modified HAp coatings via electrochemical deposition*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, **2020**, Vol. 82, Iss. 4), pp. 307-324; Document Type:Article, Research Areas:Chemistry, Web of Science Categories: Chemistry, Multidisciplinary, WOS:000610101300026;
6. A.C. Mocanu, A.F., Dobre, C.A. Dascalu, A. Maidaniuc, A. Ernuteanu, M. Soare, **Raluca I. Zamfir**, D. Gheorghe, A. Saceleanu, V. Saceleanu, *Extensive quality control sequence for non-destructive characterization of implants for dental restorations*, U.P.B. - Scientific Bulletin in series B-chemistry and materials science, 2019, Vol. 81, Iss. 2, pp.: 225-238, Document Type:Article; Research Areas: Chemistry, Web of Science Categories: Chemistry, Multidisciplinary; WOS:000487213500020.
7. S. Gradinaru, D. Tabaras, G. Gheorghe, D. Gheorghita, **Raluca I. Zamfir**, M. Vasilescu, M. Dobrescu, G. Grigorescu, *Analysis of the anisotropy for 3D printed PLA parts usable in medicine*, U.P.B. - Scientific Bulletin in series B-chemistry and materials science, 2019, Vol. 81, Iss. 4, pp.: 313-324, Document Type:Article, Research Areas: Chemistry, Web of Science Categories: Chemistry, Multidisciplinary, WOS:000501994100029.
8. D.M. Vranceanu, T. Thanh, E. Ungureanu, V. Negoiescu, M. Tarcolea, M. Dinu, A. Vladescu, **Raluca I. Zamfir**, A.C. Timotin, C.M. Cotrut, *Pulsed electrochemical deposition of Ag doped hydroxyapatite bioactive coatings on Ti6Al4V for medical purposes*, U.P.B. - Scientific Bulletin in series B-chemistry and materials science, 2018, Vol. 80, Iss 1., pp: 173-184 Document Type: Article, Research Areas: Chemistry, Web of Science Categories: Chemistry, Multidisciplinary, WOS:000428112600014.
9. D. Talpeanu, A. Cojocar, **Raluca I. Zamfir**, M. Bane, S. Ciuca, *Comparative tests on corrosion resistance of some titanium-hydroxyapatite based nanocomposites*, U.P.B. - Scientific Bulletin in series B-chemistry and materials science, 2016, Vol. 78, Iss. 2, pp. 185-194, Document Type: Article, Research Areas: Chemistry, Web of Science Categories: Chemistry, Multidisciplinary, WOS: 000417052900018.
10. **Raluca I. Zamfir**, E. Popovici, F. Miculescu, M. Danila, A. Parau, *Structural investigation of austenitic stainless steel layers obtained by laser surface alloying*, Journal of Optoelectronics and Advanced Materials, 2013, Vol. 15, Iss. 3-4, Pag. 305-310, Document Type: Article. Web of Science Categories: Materials Science, Multidisciplinary, Optics, Physics, Applied, Research Areas: Materials Science, Optics, Physics, IDS Number: 155YZ, WOS:000319788000029.
11. **Raluca I. Zamfir**, C. Cotrut, *Characterization of N-alloyed stainless steel coatings obtained by cathodic arc deposition*, Metalurgia International, 2013, Vol. 18, pp. 110-113, Document Type: Article, Research Areas: Metallurgy & Metallurgical Engineering, Web of Science Categories: Metallurgy & Metallurgical Engineering, WOS:000315312100023.
12. I.N. Popescu, M.C. Enescu, V. Bratu, **Raluca I. Zamfir**, E.V. Stoian, *Development, microstructure and corrosion resistance of Al-Mg-(Si) binary and ternary system samples in 5.3% NaCl solution for applications with environmental impact*, Advanced Materials Research, 2015, Vol. 1114, pp.: 239-244.

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

**- Reviste**

1. Maria-Cristiana Enescu, Ileana-Nicoleta Popescu, **Raluca Zamfir**, Alina Molagic, Vasile Bratu, *Experimental researches on the corrosion behavior and microstructural aspects of heat treated Al—Zn—Mg—Cu alloys*, International Journal of Energy and Environment, 4, 122- 130, 2010.

**- Selecție cu maximum 20 lucrări în volume de conferințe**

2. D.M. Vranceanu, I.C. Ionescu, E. Ungureanu, A. Berbecaru, G.A. Juravlea, **R.I. Zamfir**, A. Vladescu, Cosmin Mihai Cotruț, *Impact of surface modification techniques on the in vitro corrosion behavior and biomineralization ability of titanium*, 8<sup>th</sup> International Conference on Materials Science and Technologies – RoMat 2020 (virtual conference), 26-27 November 2020, Bucharest, Romania;
3. D. Vranceanu, E. Ungureanu, G. Juravlea, R. Zamfir, C. Cotrut, *Electrochemical magnesium substituted hydroxyapatite for biodegradation control*, International Seminar on Biomaterials and Regenerative Medicine – BioReMed2019 , 26-28 September, 2019, Craiova, Romania,

**E. Brevete obținute în întreaga activitate**

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