

**Lista de lucrări în domeniul de studii universitare de licență .....\***

Numele și prenumele: Cimpoescu Ramona

A. Teza de doctorat.

*Contribuții experimentale și teoretice privind îmbunătățirea rezistenței la coroziune a aliajelor cu memoria formei prin acoperire superficială cu polimeri*, Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul Ingineria Materialelor.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCISIS.

1 M.Stefan, I.Ionita, C. Baci, V. Manole, V. Grancea, D. Mihai, **R. Cimpoesu**, *Modelarea, simularea și optimizarea procesării materialelor metalice – Aspecte Computationale*, Editura Tehnopres, ISBN: 978-973-702-904-1, 361 pag., Iasi 2012.

2 R. Hanu Cimpoescu, *Contribuții experimentale și teoretice privind îmbunătățirea rezistenței la coroziune a aliajelor cu memoria formei prin acoperire superficială cu polimeri*, Editura Politehnicum, ISBN 978-973-621-377-9, 212 pag., 2011.

3 N. Cimpoescu, R. Hanu Cimpoescu, I. Ionașcu și M. Agop, *"Inteligența" materiei din perspective aliajelor cu memoria formei*, Editura Ars Longa, ISBN 978-973-148-044-2, 300 pag., 2010.

4. N. Cimpoescu, R. Cimpoescu *Materiale Nemetalice*, Îndrumar de laborator, Editura PIM, 2015, ISBN 978-606-13-2412-5

5. *Știința Materialelor Metalice Speciale*, Îndrumar de laborator, Editura PIM, 2015, ISBN 978-606-13-2412-5

C. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. The Management of a Plastic Instrument The way from idea to patent and final product, Burlea, SL Ciubara, A; Burlea, G; Cimpoesu, R *Materiale Plastice* Volume: 54 Issue: 1 Pages: 53-55 Mar 2017

2. A Study Of The Damping Capacity Of Mechanically Processed Cu-9.2Al-5.3Mn-0.6Fe SHAPE MEMORY ALLOYS, Cimpoesu, N; Stanciu, S; Tesloianu, D; Cimpoesu, R ; Popa, R ; Moraru, E, *METAL SCIENCE AND HEAT TREATMENT* Volume: 58 Issue: 11-12 Pages: 729-733 DOI: 10.1007/s11041-017-0086-0 Published: MAR 2017

3. The Corrosion Behavior of TiMoZrTa Alloys Used for Medical Applications, Madalina Simona Baltat, Petrica Vizureanu, Ramona Cimpoesu, Mohd Mustafa Al Bakri Abdullah, Andrei Victor Sandu, *REV.CHIM.(Bucharest)*, 67, No. 10 , 2016, FI= 0,956

4. Improving the HA deposition process on Ti-based advanced alloy through sandblasting, G. Zegan, R. Cimpoescu, M. Agop, I. Știrbu, D. L. Chicet, B. Istrate, A. Alexandru B. Anton Prisacariu, *Optoelectronics And Advanced Materials – Rapid Communications*, Vol. 10, Iss. 3-4, March - April 2016, p. 279 – 284 FI= 0,412

5. Preliminary results on hydroxyapatite growth on advanced Ti-base alloy using electrophoretic deposition process, C. Paraschiv, I. Știrbu, R. Cimpoescu, M. Bernevig, C. Nejneru, V. Manole, N. Cimpoesu\*, G. Zegan, *Optoelectronics and advanced materials – rapid communications*, 10, 1-2, 2016, 87 – 90, FI=0,412 (2015).

6. I. Gradinariu, I. Stirbu, C.A.Gheorghe, N. Cimpoesu, M. Agop, R. Cimpoesu, C. Popa, Chemical properties of hydroxyapatite deposited through electrophoretic process on different sandblasted samples, *Materials Science-Poland*, 32, 4, p. 578-582, 2015. FI(2015) =0,507

7. I. Stirbu, P. Vizureanu, R.Cimpoesu, G. Dascalu, S.O. Gurlui, M. Bernevig, M. Benchea, N. Cimpoesu, P. Postolachee, *Advanced metallic materials response at laser excitation for medical*

applications, *J. of Optoelectronics and Advanced Materials*, 17, 7-8, p. 1179-1185, 2015. FI(2015) = 0,383

8. N. Cimpoescu, S. Stanciu, P. Vizureanu, R. Cimpoescu, D.C. Achiței, I. Ioniță, Obtaining shape memory alloy thin layer using PLD technique, *Journal of Mining and Metallurgy, Section B: Metallurgy*, 50, 1, 2014, p. 69-76, FI(2015) = 1,239

9. Influence of the Casting Conditions on the Structure and Properties of a Co-Cr-Mo Dental Alloy, Vitalariu, A; Leata, R; Chelariu, R; Munteanu, C; Cimpoesu, R ; Ilie, M; Comaneci, R; Moisei, M , *Revista De Chimie*, Volume: 66 Issue: 12 Pages: 2147-2151, Published: DEC 2015 FI= 0,956

10. Știrbu, I., Vizureanu, P., Cimpoescu, R., Lungu M., Bernevig, M., Popa, R.F., Chemical procedures for Ti-alloy based metallic surface modification 2014, *Optoelectronics and Advanced Materials, Rapid Communications*, 8 (3-4), pp. 242-246.

11. A. Costan; R. Cimpoesu Hanu; I. Ionita, A. Dima, N. Forna, P. Nica, M. Agop, Hydroxyapatite and PMMA Thin Films Synthesized by Pulsed Laser Deposition on Titanium Based Metallic Substrates, *Materiale Plastice*, vol. 48, nr. 4, pag. 299-302, 2011.

12. R. Hanu Cimpoesu, D. Mareci, N. Aelenei, G. Bolat, C. Baci, T. Constantin, M. Agop, Preliminary testing of corrosion characteristics of NiTi alloy coated with various polymers, *Journal of Optoelectronics and Advanced Materials*, vol. 13, nr. 10, pag. 1305 – 1308, 2011.

13. E. Poll, R. Litoiu, A. Aluculesei, I. Surdu, R. Hanu, G. Galusca, I. Gottlie, Special Transport Laws at Mesoscopic Scale. Electrical Conductance in Nanostructures B, *Romanian Journal of Physics*, vol.55, nr. 9-10, pag. 1024-1041, 2010.

14. R. Hanu Cimpoescu, G. O. Pompilian, C. Baci, N. Cimpoescu, C. Nejneru, M. Agop, S. Gurlui, C. Focșa, Pulsed laser deposition of poly (L-Lactide) acid on nitinol substrate, *Optoelectronics and Advanced Materials-Rapid Communications*, vol 4, nr. 12, pag. 2148 - 2153, 2010.

15. N. Cimpoescu, S. Stanciu, M. Meyer, I. Ioniță, R. Cimpoescu Hanu, Effect of stress on damping capacity of a shape memory alloy CuZnAl, *Journal of Optoelectronics and Advanced Materials*, vol. 12, nr. 2, pag. 386-391, ISSN 1454-4164, 2010.

16. M.-A. Paun, R. Cimpoesu Hanu, N. Cimpoesu, M. Agop, C.Baci, S. Stratulat, C. Nejneru, Internal friction phenomena at polymeric and metallic shape memory materials. Experimental and theoretical results, *Materiale Plastice*, vol. 47, nr. 2, pag. 209-214, 2010.

17. V.-P. Paun, N. Cimpoesu, R. Hanu Cimpoesu, G. V. Munceleanu, N. Forna, M. Agop, On the Energy Dissipation Capacity and the Shape Memory. A Comparative Study between Polymer Composites and Alloys, *Materiale Plastice*, vol. 47, nr. 2 , pag. 158-163, 2010.

19. Irina Gradinariu, Ioan Stirbu, Cristina Angela Gheorghe,, Nicanor Cimpoesu, Maricel Agop, Ramona Cimpoesu, Cristina Popa, Chemical properties of hydroxyapatite deposited through electrophoretic process on different sandblasted samples, *Materials Science-Poland*, <http://www.materialsscience.pwr.wroc.pl/>, DOI: 10.2478/s13536-014-0241-x

20. Advanced shape memory elements for automotive industry Cimpoescu, R., Florea, C., Stanciu, S., Bejinariu, C., *International Journal of Modern Manufacturing Technologies* Volume 9, Issue 1, 2017, Pages 20-24 (Article)

#### D. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS.

1. N.Cimpoescu, M. Axinte, Cimpoesu Hanu R., I. Hopulele, I. Atudosie, Paraschiv Petronela, Simularea capacității de disipare a unor materiale metalice, *Buletinul Institutului Politehnic din Iași*, tomul LVI (LX), fasc. 1, pp. 45-54, ISSN 1453-1690, 2010.

R32. N. Cimpoescu, M. Axinte, Cimpoescu Hanu R., V. Manole, R. Vasile, Paraschiv Petronela, Data electronic acquisition system design for a torsion pendulum, *Buletinul Institutului Politehnic din Iași*, tomul LVI (LX), fasc. 2, pag. 29-40, ISSN 1453-1690, 2010.

2. R. Ștefănică, C. Nejneru, V.Manole, R. Cimpoescu Hanu, Electrochemical Corrosion Behavior Of 7075 Aluminum Alloy After Ageing Treatment, *The Annals Of “Dunarea de Jos”*

University Of Galati, Fascicle IX, Metallurgy And Materials Science, NO. 2, 2010, revista categoria B+ , indexata în Cambridge Scientific Abstract

E. Lucrări științifice publicate în volumele conferințelor.

1. Microstructural Analysis of Ti-Based Shape Memory Alloys Following the Electrochemical Corrosion in Artificial Saliva, Baciuc, C., Baciuc, E.R. Cimpoeșu, R., Levente, C.G., Bosinceanu, D.G., Baciuc, M., Bejinariu, C. IOP Conference Series: Materials Science and Engineering Volume 209, Issue 1, 27 June 2017, Article number 012033, 2017 International Conference on Innovative Research, ICIR Euroinvent 2017; 25 May 2017 through 26 May 2017;

2. Preliminary Results on the Surface of a New Fe-Based Metallic Material after "in Vivo" Maintaining (Conference Paper) Săndulache, F. Stanciu, S., Cimpoeșu, N., Stanciu, T., Cimpoeșu, R., Enache, A., Baciuc, R. IOP Conference Series: Materials Science and Engineering Volume 209, Issue 1, 27 June 2017, Article number 012049 2017 International Conference on Innovative Research, ICIR Euroinvent 2017; Romania Palace of Culture Iasi; Romania; 25 May 2017 through 26 May 2017;

3. Surface Characterization of New Biomaterials (Conference Paper) Minciuna, M.G., Vizureanu, P., Abdullah, M.M.B., Achitei, D.C., Istrate, B., Cimpoesu, R., Focsaneanu, S.C. IOP Conference Series: Materials Science and Engineering Volume 209, Issue 1, 27 June 2017, Article number 012022 2017 International Conference on Innovative Research, ICIR Euroinvent 2017; Romania Palace of Culture Iasi; Romania; 25 May 2017 through 26 May 2017;

5. Electro-Chemical Behavior of Low Carbon Steel under H<sub>2</sub>S Influence (Conference Paper) Zaharia, M.G., Stanciu, S., Cimpoesu, R. Nejneru, C., Savin, C., Manole, V., Cimpoeșu, N. View Correspondence IOP Conference Series: Materials Science and Engineering Volume 209, Issue 1, 27 June 2017, Article number 012050 2017 International Conference on Innovative Research, ICIR Euroinvent 2017; Romania Palace of Culture Iasi; Romania; 25 May 2017 through 26 May 2017;

6. Ciprian Paraschiv, Petronela Paraschiv, Ramona Cimpoeșu, Determination of the Elbow Joint Resulting Torque and Obtaining Customized Numerical Results, Procedia - Social and Behavioral Sciences, Volume 117, 2014, pag. 522-528

7. Știrbu I., Vizureanu P., Rațoi M., Cimpoesu R., 2013, Obtaining hydroxyapatite (HA) by sol-gel method on Ti6Al4V alloys aiming the implant's surface bio-functionalization, E-Health and Bioengineering Conference, EHB 2013, 6707412.

8. Ciprian Paraschiv, Petronela Paraschiv, Ramona Cimpoeșu, Usage of two freedom degree for modeling of a complex wrist, 4th INTERNATIONAL CONGRESS ON PHYSICAL EDUCATION, SPORT AND KINETOTHERAPY (ICPEK 2014), p. 363-369, 2015,

9. F. Săndulache, S. Stanciu, R. Cimpoesu, M. Ratoi, **N. Cimpoesu**, *Quantification of Fe-base alloy degradation after immersion test*, Innovative Manufacturing Engineering International Conference (IMANE) 2015, Iasi, Romania, Published in Applied Mechanics and Materials, 2015, ISI Proceedings, Vol. 809-810, pg. 566-571. Indexat Index Copernicus Journals Master List, Google Scholar

10. D. Dană, P. Vizureanu, **R. Cimpoeșu**, Tehnological development perspectives of MIG welding soldering- Advantages and Disadvantages, Proceedings of 44th INTERNATIONAL OCTOBER CONFERENCE on Mining and Metallurgy, vol.44, pag. 335-338, ISBN:978-86-7827-042-0.

F. Contracte de cercetare.

Membru în cadrul unui contract de cercetare IDEI cod 616 nr 83 din 01.10.2007, Iași.

Membru în cadrul contractului de cercetare CII10/2017.

Data,

\* Conform H.G. 1175/ 2006