

L I S T A

lucrărilor științifice

A. Teza de doctorat

A1. Contribuții privind proiectarea și caracterizarea unor materiale compozite pentru aplicații medicale

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

B1. Biomimetic Calcium Phosphates Derived from Marine and Land Bioresources, Florin MICULESCU, Marian MICULESCU, Robert Catalin CIOCOIU, Ioan Stefan VOICU, Andreea MAIDANIUC, Aura Catalina Mocanu, Editură: InTech, Data publicării: 2017-12-20, Nr. pagini: 19-36

C. Lucrări indexate ISI/BDI

Lucrări indexate ISI

(C1) Manescu, V.; Antoniac, I.; Antoniac, A.; Laptoiu, D.; Paltanea, G.; Ciocoiu, R.; Nemoianu, I. V.; Gruionu, L. G.; Dura, H.: Bone Regeneration Induced by Patient-Adapted Mg Alloy-Based Scaffolds for Bone Defects: Present and Future Perspectives. *Biomimetics-Basel* **2023**, 8.

(C2) Streza, A.; Antoniac, A.; Manescu, V.; Ciocoiu, R.; Cotrut, C. M.; Miculescu, M.; Miculescu, F.; Antoniac, I.; Fosca, M.; Rau, J. V.; Dura, H.: In Vitro Studies Regarding the Effect of Cellulose Acetate-Based Composite Coatings on the Functional Properties of the Biodegradable Mg3Nd Alloys. *Biomimetics-Basel* **2023**, 8.

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(C5) Ciocoiu, R.; Turcu, R.; Valeanu, N.; Dobri, G.; Banu, A.; Cârstoc, I.; Horatiu, D.: Corrosion Behavior and Wetting Properties of Cast Tnzt Alloys. *Mater Tehnol* **2023**, 57, 395-399.

(C6) Cirstea, N. F.; Badanoiu, A.; Voicu, G.; Ciocoiu, R. C.; Boscornea, A. C.: Fire Behavior and Adhesion of Magnesium Phosphate Coatings for the Protection of Steel Structures. *Appl Sci-Basel* **2022**, 12.

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(C8) Robu, A.; Antoniac, A.; Ciocoiu, R.; Grosu, E.; Rau, J. V.; Fosca, M.; Krasnyuk, J. r.; Pircalabioru, G. G.; Manescu, V.; Antoniac, I.; Gradinaru, S.: Effect of the Antimicrobial Agents Peppermint Essential Oil and Silver Nanoparticles on Bone Cement Properties. *Biomimetics-Basel* **2022**, 7.

- (C9) Robu, A.; Ciocoiu, R.; Antoniac, A.; Antoniac, I.; Raiciu, A. D.; Dura, H.; Forna, N.; Cristea, M. B.; Carstoc, I. D.: Bone Cements Used for Hip Prosthesis Fixation: The Influence of the Handling Procedures on Functional Properties Observed during In Vitro Study. *Materials* **2022**, *15*.
- (C10) Pantea, M.; Ciocoiu, R. C.; Greabu, M.; Totan, A. R.; Imre, M.; Tancu, A. M. C.; Sfeatcu, R.; Spînu, T. C.; Ilinca, R.; Petre, A. E.: Compressive and Flexural Strength of 3D-Printed and Conventional Resins Designated for Interim Fixed Dental Prostheses: An In Vitro Comparison. *Materials* **2022**, *15*.
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- (C12) Georgeanu, V. A.; Bolcu, D.; Stanescu, M. M.; Ciuca, I.; Stefanescu, V.; Ciocoiu, R.; Ivan, M. A.: Analysis of Some Mechanical Properties of Hybrid Matrix Composites Reinforced by Flax Fabric. Orthopaedic Applications. *Mater Plast* **2021**, *58*, 148-159.
- (C13) Mocanu, A. C.; Miculescu, F.; Stan, G. E.; Pandele, A. M.; Pop, M. A.; Ciocoiu, R. C.; Voicu, S. I.; Ciocan, L. T.: Fiber-Templated 3D Calcium-Phosphate Scaffolds for Biomedical Applications: The Role of the Thermal Treatment Ambient on Physico-Chemical Properties. *Materials* **2021**, *14*.
- (C14) Mocanu, A. C.; Miculescu, F.; Stan, G. E.; Ciocoiu, R. C.; Corobea, M. C.; Miculescu, M.; Ciocan, L. T.: Preliminary Studies on Graphene-Reinforced 3D Products Obtained by the One-Stage Sacrificial Template Method for Bone Reconstruction Applications. *J Funct Biomater* **2021**, *12*.
- (C15) Mocanu, A. C.; Miculescu, F.; Miculescu, M.; Ciocoiu, R. C.; Pandele, A. M.; Stan, G. E.; Cîmpean, A.; Voicu, S. I.; Ciocan, L. T.: Comprehensive analysis of compatible natural fibre as sacrificial porogen template for tailored ceramic 3D bioproducts destined for hard tissue reconstruction. *Ceram Int* **2021**, *47*, 5318-5334.
- (C16) Alexandrescu, D.; Vasilescu, M.; Sfat, C.; Tabaras, D.; Gheorghita, D.; Antoniac, I.; Ciocoiu, R.: A Study on 3d Printed Component's Surface Made of Pla with Silver Particles. *U Politeh Buch Ser B* **2021**, *83*, 303-312.
- (C17) Manea, C. A.; Ciocoiu, R.; Gheorghe, D.; Bibis, A.; Stefanoiu, R.; Csaki, I.: ELECTRO SPARK DEPOSITION OF HfNbTaTiZr HIGH ENTROPY ALLOY PROCESSED IN SOLID STATE AND EXPERIMENTAL ADHESIVE TESTING. *U Politeh Buch Ser B* **2021**, *83*, 201-208.
- (C18) Geambazu, L. E.; Ciocoiu, R.; Miculescu, F.; Csaki, I.: COATINGS OF CoxCrFeMoNi HIGH ENTROPY ALLOY PRODUCED BY ELECTRO SPARK DEPOSITION TECHNIQUE. *U Politeh Buch Ser B* **2021**, *83*, 165-174.
- (C19) Maidaniuc, A.; Miculescu, F.; Ciocoiu, R. C.; Butte, T. M.; Pasuk, I.; Stan, G. E.; Voicu, S. I.; Ciocan, L. T.: Effect of the processing parameters on surface, physico-chemical and mechanical features of bioceramics synthesized from abundant carp fish bones. *Ceram Int* **2020**, *46*, 10159-10171.
- (C20) Dascalu, C. A.; Miculescu, F.; Mocanu, A. C.; Constantinescu, A. E.; Butte, T. M.; Pandele, A. M.; Ciocoiu, R. C.; Voicu, S. L.; Ciocan, L. T.: Novel Synthesis of Core-Shell Biomaterials from Polymeric Filaments with a Bioceramic Coating for Biomedical Applications. *Coatings* **2020**, *10*.
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- (C22) Mocanu, A. C.; Miculescu, M.; Ciocoiu, R. C.; Butte, T. M.; Bitu, A. I.; Milea, C. G.; Antoniac, A.; Vasilescu, M.; Trante, O.; Pop, C.; Ciocan, L. T.: Comparative Framework of

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(C23) Navodariu, N.; Branzei, M.; Ciocoiu, R.; Ciuca, I.; Coman, R.; Raiciu, A. D.; Semenescu, A.; Antoniac, I.; Gradinaru, S.; Cristescu, I.: Effect of Local Heating on the Mechanical Characteristics of Repaired Automotive Panels. *Mater Plast* **2019**, *56*, 750-758.

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- (C51) M Schwartz, R Ciocoiu, D Gheorghe, G Jula, I Ciucă, Preliminary research for using Rene 41 in confectioning extrusion dies, *WIT Transactions on Engineering Sciences*, vol. 90, pp. 95-106, *Materials Characterisation VII*, WIT Press, Ed. C. A. Brebbia, *Journal of Engineering Studies and Research*, vol. 25, no.2, 99.25-35
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D. Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

- Selecție de lucrări în volume de conferințe

D1. Trueness Of 3d-Printed Interim Fixed Dental Prostheses: A Comparative In Vitro Study, Mihaela Pantea, Andreea Cristiana Didilescu, Robert Ciocoiu, Marina Imre, Ana Maria Cristina Tancu, Elena Creciun, Alexandru Eugen Petre, International College of Prosthodontists, London Symposium - satellite Meeting, August 30 - September 2, 2023

D2. Adapting the Girifalco - Good equation for metallic materials. A study on 5 alloys from the TNZT system, Robert Ciocoiu, Alina Necșulescu, Octavian Trante, G. Dobri, A. Banu, Nicolae Văleanu, International Conference on Biomaterials and Regenerative Medicine BioReMed 2023, 19-21 July, Sibiu, Romania

D3. A correlation between surface free energy - deformation degree for metallic materials used for prolonged contact with skin, Gabriel Cristescu, Robert Bololoi, Marian Miculescu, Robert Ciocoiu, Alexandru Streza, Iulian Antoniac, International Conference on Biomaterials and Regenerative Medicine BioReMed 2023, 19-21 July, Sibiu, Romania

D4. Performances of RENE 41 as hot-copper extrusion die material, Robert Ciocoiu, ICIR EUROINVENT 2021, 20-21 mai 2021

D5. Mechanical behaviour of interim prosthetic materials produced by additive manufacturing, M. Pantea, R. Ciocoiu, M. Imre, A. M. C. Tancu, A. E. Petre, Congresul Universitatii de Medicina Si Farmacie "Carol Davila", Bucuresti, Editia a X-a, 10-12 noiembrie, 2022

D6. A wetting study on the surface of stressed humerus fixation plates, A. Scripcaru, P.D. Sirbu, R. Turcu, O. Trante, I. Antoniac, A. Robu, A. Streza, 9th International Conference on Materials Science and Technologies RoMat 2022, 24-25 Nov, 2022, Bucharest, Romania

D7. Combining additive manufacturing with conventional production methods to obtain new materials for prosthetic cups, D. Alexandrescu, I. Antoniac, R. Ciocoiu, A. Stere, A. Robu, 9th International Conference "Biomaterials, Tissue Engineering & Medical Devices" BIOMMEDD'2022, Bucharest (Romania), July 20-22th, 2022.

D8. MEASUREMENT AND QUANTIFICATION OF RESIDUAL AUSTENITE, BY NUMERICAL MODELING OF ITS OWN FREE VIBRATIONS, A. Bibis, F. Condurachi, B. Ghiban, R. Ciocoiu, M. Deaconu, 8th International Conference on Materials Science and Technologies – RoMat 2020, Bucharest, Romania, November 26th to November 27th, 2020

D9. CoxCrFeMoNi HIGH ENTROPY ALLOY COATINGS PRODUCED BY ESD PROCESS, L.E. Geambazu, R. Ciocoiu, F. Miculescu, I. Csaki, 8th International Conference

on Materials Science and Technologies – RoMat 2020, Bucharest, Romania, November 26th to November 27th, 2020

D10. ANISOTROPY OF 3D PRINTED POLYLACTIC ACID, Ciocoiu Robert, Bololoi Robert, Gheorghe Dan, Gheorghita Daniela, Antoniac Iulian, BIOREMED2019. 26-28SEPTEMBER, CRAIOVA, ROMANIA

D11. Investigation of Mechanical Behavior of the Roman Bricks from Romula through Finite Element Analysis, D. Batalu, O. Trante, R. Ciocoiu, A. Bunescu, M. Negru, I. Tiseanu, G. Aldica, P. Badica, 15th International Conference on Advanced Materials, Kyoto, Japan, August 27- September 01, 2017

D12. Connector design influence on strength of zirconia prosthetic restorations, 41st Annual Conference of European Prosthodontic Association, 28-30 september, 2017, Bucharest, Romania

D13. Preliminary research for using Rene 41 in confectioning extrusion dies, M. Schwartz, R. Ciocoiu, D. Gheorghe, G. Jula & I. Ciucă, Seventh International Conference on Computational Methods and Experiments in Materials Characterisation, Materials Characterisation 2015, Valencia, Spain, 2015

D14. Failure of an Inconel 718 die used in production of hot copper direct extrusion, M. Schwartz, R. Ciocoiu, D. Gheorghe, I. Ciuca, G. Jula, 4th International Conference and Exhibition on Material Science & Engineering, 14-16 september, 2015, Florida, USA,

E. Brevete obținute în întreaga activitate

Data:

01.09.2024

Semnătura: