

# LISTA DE LUCRĂRI

Ș.L. Dr. Ing. Aura-Cătălina Mocanu

## LISTA CELOR 10 CELE MAI RELEVANTE LUCRĂRI PENTRU REALIZĂRILE PROFESIONALE PROPRII

1. **A.C. Mocanu**, A.E. Constantinescu, M.A. Pandele, Ș.I. Voicu, R.C. Ciocoiu, D. Batalu, A. Semenescu, F. Miculescu, L.T. Ciocan, *Biocompatible Composite Filaments Printable by Fused Deposition Modelling Technique: Selection of Tuning Parameters by Influence of Biogenic Hydroxyapatite and Graphene Nanoplatelets Ratios*, *Biomimetics*, 9(3), 2024, Article number 189, **Autor principal Q1, IF=4.5**.
2. **A.C. Mocanu**, F. Miculescu, G.E. Stan, T. Tite, M. Miculescu, M.H. Țierean, A. Pascu, R.C. Ciocoiu, T.M. Butte, L.T. Ciocan, *Development of ceramic coatings on titanium alloy substrate by laser cladding with pre-placed natural derived-slurry: Influence of hydroxyapatite ratio and beam power*, *Ceramics International*, 49(7), 2023, pp. 10445-10454; WOS:000944679300001, **Autor principal Q1, IF=5.532**.
3. **A.C. Mocanu**, F. Miculescu, G.E. Stan, I. Pasuk, T. Tite, A. Pascu, T.M. Butte, L.T. Ciocan, *Modulated Laser Cladding of Implant-Type Coatings by Bovine-Bone-Derived Hydroxyapatite Powder Injection on Ti6Al4V Substrates—Part I: Fabrication and Physico-Chemical Characterization*, *Materials*, 15(22), 2022, Article number 7971; WOS:000887357500001, **Autor principal Q2, IF=3.748**.
4. **A.C. Mocanu**, F. Miculescu, C.A. Dascălu, Ș.I. Voicu, M.A. Pandele, R.C. Ciocoiu, D. Batalu, S. Dondea, V. Mitran, L.T. Ciocan, *Influence of Ceramic Particles Size and Ratio on Surface—Volume Features of the Naturally Derived HA-Reinforced Filaments for Biomedical Applications*, *Journal of Functional Biomaterials*, 13(4), 2022, Article number 199; PMID: PMC9590078, **Autor principal Q2, IF=4.901**.
5. **A.C. Mocanu**, F. Miculescu, G.E. Stan, A.M. Pandele, M.A. Pop, R.C. Ciocoiu, S.I. Voicu, L.T. Ciocan, *Fiber-Templated 3D Calcium-Phosphate Scaffolds for Biomedical Applications: The Role of the Thermal Treatment Ambient on Physico-Chemical Properties*, *Materials*, 14(9), 2021, Article number 2198; WOS:000650579700001, **Autor principal Q2, IF=3.748**.
6. **A.C. Mocanu**, F. Miculescu, M. Miculescu, R.C. Ciocoiu, A.M. Pandele, G.E. Stan, A. Cimpean, S.I. Voicu, L.T. Ciocan, *Comprehensive analysis of compatible natural fibre as sacrificial porogen template for tailored ceramic 3D bioproducts destined for hard tissue reconstruction*, *Ceramics International*, 47(4), 2021, pp. 5318-5334; WOS:000608672000001, **Autor principal Q1, IF=5.532**.
7. **A.C. Mocanu**, M. Miculescu, R.C. Ciocoiu, T.M. Butte, A.I. Bită, C.G. Milea, A. Antoniac, M. Vasilescu, O. Trante, C. Pop, L.T. Ciocan, *Comparative Framework Of Calcium Phosphates-based Products Derived From Sustainable Marine And Terrestrial Resources For Biomedical Applications*, *Studia Universitatis Babes-Bolyai Chemia*, 65, 2020, pp. 73-84; WOS:000601368800006, **Autor principal Q4, IF=0.558**.
8. **A.C. Mocanu**, M. Miculescu, T. Machedon-Pisu, A. Maidaniuc, R.C. Ciocoiu, M. Ionita, I. Pasuk, G.E. Stan, F. Miculescu, *Internal and external surface features of newly developed porous ceramics with random interconnected 3D channels by a fibrous sacrificial porogen method*, *Applied Surface Science*, 489, 2019, pp. 226-238; WOS:000474530600024, **Autor principal Q1, IF=6.707**.
9. **A.C. Mocanu**, G.E. Stan, A. Maidaniuc, M. Miculescu, I.V. Antoniac, R.C. Ciocoiu, S.I. Voicu, V. Mitran, A. Cimpean, F. Miculescu, *Naturally-Derived Biphasic Calcium Phosphates through Increased Phosphorus-Based Reagent Amounts for Biomedical Applications*, *Materials*, 12(3), 2019, Article number 381; WOS:000460768000050, **Autor principal Q2, IF=3.748 (decembrie 2022)**.
10. F. Miculescu, **A.C. Mocanu**, G.E. Stan, M. Miculescu, A. Maidaniuc, A. Cimpean, V. Mitran, S.I. Voicu, T. Machedon-Pisu, L.T. Ciocan, *Influence of the modulated two-step synthesis of biogenic hydroxyapatite on biomimetic products' surface*, *Applied Surface Science*, 438, 2018, pp. 147-157; WOS:000425731200016, **Q1, IF=7.392**.

## I. TEZA DE DOCTORAT

- T1. A.C. Mocanu**, “*Contribuții privind fabricarea unor structuri 3D din pulberi biomimetice cu aplicații biomedicale (Contributions on the manufacturing of 3D constructs using biomimetic powders for biomedical applications)*”, Titlu de Doctor acordat prin Ordin de Ministru Nr. 5533/01.11.2021.

## II. BREVETE DE INVENȚIE / INOVAȚII

### B – Brevete de invenție

- B1.** Brevet de invenție Nr. 135807 “*Procedeu de obținere a unui produs pentru reconstrucția defectelor osoase, pe bază de hidroxiapatită și fosfat de calciu bifazic biogen*”, F. Miculescu, **A.C. Mocanu**, G. Stan, I.V. Antoniac, M.C. Costoiu, Ș.I. Voicu, M. Miculescu, I.M. Mateș, A. Semenescu.

## III. ALTE MATERIALE PUBLICATE

### D – Capitole publicate în volume colective

- D1. A.C. Mocanu**, “*Structuri poroase din fosfați de calciu biogeni pentru aplicații biomedicale*”, în *Materiale utilizate în medicină – aspecte interdisciplinare*, Ed. I. Antoniac, Printech, 2021, ISBN 978-606-23-1306-7.
- D2.** F. Miculescu, **A.C. Mocanu**, GE. Stan, A. Maidaniuc, M. Miculescu, SI. Voicu, I. Antoniac, “*Bioceramics derived from marble and sea shells as potential bone substitution materials*”, in *Bioceramics and biocomposites: from experiment to clinical use*, Ed.I. Antoniac, Wiley, 2019 ISBN-10: 1119049342.
- D3.** F. Miculescu, **A.C. Mocanu**, A. Maidaniuc, C.A. Dascălu, M. Miculescu, S.I. Voicu, “*Biomimetic Calcium Phosphates Derived from Marine and Land Bioresources*”, in *Hydroxyapatite – Advances in Composite Nanomaterials, Biomedical Applications and Its Technological Facets*, Ed. J. Thirumalai, InTech, 2018, DOI: 10.5772/intechopen.71489, ISBN 978-953-51-5731-1.

## IV. ARTICOLE / STUDII ÎN EXTENSO PUBLICATE

### R – Ris – Articole în extenso publicate

#### **R1. Articole în reviste cotate ISI Thomson Reuters – Clarivate Analytics – Web of Science Core Collection [IF - Factor de Impact]**

- Ris1. A.C. Mocanu**, A.E. Constantinescu, M.A. Pandele, Ș.I. Voicu, R.C. Ciocoiu, D. Batalu, A. Semenescu, F. Miculescu, L.T. Ciocan, *Biocompatible Composite Filaments Printable by Fused Deposition Modelling Technique: Selection of Tuning Parameters by Influence of Biogenic Hydroxyapatite and Graphene Nanoplatelets Ratios*, *Biomimetics*, 9(3), 2024, Article number 189, DOI: 10.3390/biomimetics9030189, eISSN: 2313-7673; **Q1, IF=4.5 (martie 2024)**.
- Ris2.** A.M. Negrescu, **A.C. Mocanu**, F. Miculescu, V. Mitran, A.E. Constantinescu, A. Cîmpean, *In Vitro Studies on 3D-Printed PLA/HA/GNP Structures for Bone Tissue Regeneration*, *Biomimetics*, 9(1), 2024, Article number 55, DOI: 10.3390/biomimetics9010055, eISSN: 2313-7673; WOS:001149426100001, **Q1, IF=4.5 (ianuarie 2024)**.
- Ris3. A.C. Mocanu**, F. Miculescu, G.E. Stan, T. Tite, M. Miculescu, M.H. Țierean, A. Pascu, R.C. Ciocoiu, T.M. Butte, L.T. Ciocan, *Development of ceramic coatings on titanium alloy substrate by laser cladding with pre-placed natural derived-slurry: Influence of hydroxyapatite ratio and beam power*, *Ceramics International*, 49(7), 2023, pp. 10445-10454, DOI: 10.1016/j.ceramint.2022.11.227, eISSN: 1873-3956; WOS:000944679300001, **Autor principal Q1, IF=5.532 (aprilie 2023)**.
- Ris4. A.C. Mocanu**, F. Miculescu, A.E. Constantinescu, M.A. Pandele, Ș.I. Voicu, A. Cîmpean, M. Miculescu, A.M. Negrescu, *Selection Route of Precursor Materials in 3D Printing Composite Filament Development for Biomedical Applications*, *Materials*, 16(6), 2023, Article number

- 2359, DOI: 10.3390/ma16062359, eISSN: 1996-1944; WOS:000958878300001, **Autor principal Q1, IF=3.748 (martie 2023).**
- Ris5.** **A.C. Mocanu**, F. Miculescu, G.E. Stan, I. Pasuk, T. Tite, A. Pascu, T.M. Butte, L.T. Ciocan, *Modulated Laser Cladding of Implant-Type Coatings by Bovine-Bone-Derived Hydroxyapatite Powder Injection on Ti6Al4V Substrates—Part I: Fabrication and Physico-Chemical Characterization*, *Materials*, 15(22), 2022, Article number 7971, DOI: 10.3390/ma15227971, eISSN: 1996-1944; WOS:000887357500001, **Autor principal Q1, IF=3.748 (decembrie 2022).**
- Ris6.** **A.C. Mocanu**, F. Miculescu, C.A. Dascălu, Ș.I. Voicu, M.A. Pandele, R.C. Ciocoiu, D. Batalu, S. Dondea, V. Mitran, L.T. Ciocan, *Influence of Ceramic Particles Size and Ratio on Surface—Volume Features of the Naturally Derived HA-Reinforced Filaments for Biomedical Applications*, *Journal of Functional Biomaterials*, 13(4), 2022, Article number 199, DOI: 10.3390/jfb13040199, eISSN: 2079-4983; PMCID: PMC9590078, **Autor principal Q2, IF=4.901 (decembrie 2022).**
- Ris7.** **A.C. Mocanu**, F. Miculescu, G.E. Stan, A.M. Pandele, M.A. Pop, R.C. Ciocoiu, S.I. Voicu, L.T. Ciocan, *Fiber-Templated 3D Calcium-Phosphate Scaffolds for Biomedical Applications: The Role of the Thermal Treatment Ambient on Physico-Chemical Properties*, *Materials*, 14(9), 2021, Article number 2198, DOI: 10.3390/ma14092198, eISSN: 1996-1944; WOS:000650579700001, **Autor principal Q1, IF=3.748 (decembrie 2022).**
- Ris8.** **A.C. Mocanu**, F. Miculescu, M. Miculescu, R.C. Ciocoiu, A.M. Pandele, G.E. Stan, A. Cimpean, S.I. Voicu, L.T. Ciocan, *Comprehensive analysis of compatible natural fibre as sacrificial porogen template for tailored ceramic 3D bioproducts destined for hard tissue reconstruction*, *Ceramics International*, 47(4), 2021, pp. 5318-5334, DOI: 10.1016/j.ceramint.2020.10.113, eISSN: 1873-3956; WOS:000608672000001, **Autor principal Q1, IF=5.532 (decembrie 2022).**
- Ris9.** C.A. Dascalu, F. Miculescu, **A.C. Mocanu**, A.E. Constantinescu, T.M. Butte, A.M. Pandele, R.C. Ciocoiu, S.I. Voicu, L.T. Ciocan, *Novel Synthesis of Core-Shell Biomaterials from Polymeric Filaments with a Bioceramic Coating for Biomedical Applications*, *Coatings*, 10(3), 2020, pp. 283, DOI: 10.3390/coatings10030283, ISSN: 2079-6412; WOS:000524211800088, **Q2, IF=3.236 (decembrie 2022).**
- Ris10.** **A.C. Mocanu**, M. Miculescu, R.C. Ciocoiu, T.M. Butte, A.I. Bită, C.G. Milea, A. Antoniac, M. Vasilescu, O. Trante, C. Pop, L.T. Ciocan, *Comparative Framework Of Calcium Phosphates-based Products Derived From Sustainable Marine And Terrestrial Resources For Biomedical Applications*, *Studia Universitatis Babeș-Bolyai Chemia*, 65, 2020, pp. 73-84, DOI: 10.24193/subbchem.2020.4.06, ISSN: 1224-7154; WOS:000601368800006, **Autor principal Q4, IF=0.558 (decembrie 2022).**
- Ris11.** **A.C. Mocanu**, M. Miculescu, T. Machedon-Pisu, A. Maidaniuc, R.C. Ciocoiu, M. Ionita, I. Pasuk, G.E. Stan, F. Miculescu, *Internal and external surface features of newly developed porous ceramics with random interconnected 3D channels by a fibrous sacrificial porogen method*, *Applied Surface Science*, 489, 2019, pp. 226-238, DOI: 10.1016/j.apsusc.2019.05.354, ISSN: 0169-4332; WOS:000474530600024, **Autor principal Q1, IF=6.707 (decembrie 2022).**
- Ris12.** **A.C. Mocanu**, G.E. Stan, A. Maidaniuc, M. Miculescu, I.V. Antoniac, R.C. Ciocoiu, S.I. Voicu, V. Mitran, A. Cîmpean, F. Miculescu, *Naturally-Derived Biphasic Calcium Phosphates through Increased Phosphorus-Based Reagent Amounts for Biomedical Applications*, *Materials*, 12(3), 2019, Article number 381, DOI: 10.3390/ma12030381, ISSN: 1996-1944; WOS:000460768000050, **Autor principal Q2, IF=3.748 (decembrie 2022).**
- Ris13.** V. Mitran, R. Ion, F. Miculescu, M.D. Necula, **A.C. Mocanu**, G.E. Stan, I.V. Antoniac, A. Cîmpean, *Osteoblast Cell Response to Naturally Derived Calcium Phosphate-Based Materials*, *Materials*, 11(7), 2018, pp. 1097, DOI: 10.3390/ma11071097, ISSN: 1996-1944; WOS:000442117300048, **Q2, IF=3.748 (decembrie 2022).**
- Ris14.** A. Savin, M.L. Craus, V. Turchenko, F. Novy, **A.C. Mocanu**, M. Soare, J. Grum, O.S. Doroshkevich, *Complementary Methods for Evaluation of Yttria Stabilized Zirconia Coatings used as Thermal Barrier Coating*, *Journal of Mechanical Engineering*, 64(11), 2018, pp. 706-

715, DOI: 10.5545/sv-jme.2017.5107, ISSN: 0039-2480; WOS:000450186100007, **Q3, IF=1.6 (decembrie 2022).**

- Ris15.** F. Miculescu, **A.C. Mocanu**, G.E. Stan, M. Miculescu, A. Maidaniuc, A. Cîmpean, V. Mitran, S.I. Voicu, T. Machedon-Pisu, L.T. Ciocan, *Influence of the modulated two-step synthesis of biogenic hydroxyapatite on biomimetic products' surface*, Applied Surface Science, 438, 2018, pp. 147-157, DOI: 10.1016/j.apsusc.2017.07.144, ISSN: 0169-4332; WOS:000425731200016, **Q1, IF=7.392 (decembrie 2022).**
- Ris16.** A. Maidaniuc, F. Miculescu, S.I. Voicu, C. Andronescu, M. Miculescu, E. Matei, **A.C. Mocanu**, I. Pencea, I. Csaki, T. Machedon-Pisu, L.T. Ciocan, *Induced wettability and surface-volume correlation of composition for bovine bone derived hydroxyapatite particles*, Applied Surface Science, 438, 2018, pp. 158-166, DOI: 10.1016/j.apsusc.2017.07.074, ISSN: 0169-4332; WOS: 000425731200017, **Q1, IF=7.392 (decembrie 2022).**
- Ris17.** F. Miculescu, **A.C. Mocanu**, C.A. Dascălu, A. Maidaniuc, D. Batalu, A. Berbecaru, S.I. Voicu, M. Miculescu, V. Kumar Thakur, L.T. Ciocan, *Facile synthesis and characterization of hydroxyapatite particles for high value nanocomposites and biomaterials*, Vacuum, 146, 2017, pp. 614-622, DOI: 10.1016/j.vacuum.2017.06.008, ISSN: 0042-207X; WOS:000416184600080, **Q2, IF=4.11 (decembrie 2022).**
- Ris18.** F. Miculescu, A. Purcaru, M. Miculescu, L. T. C iocan, S. I. Voicu, A. Maidaniuc, **A.C. Mocanu**, M. Branzei, *Hydroxyapatite induced microstructure by cooling rate modification of cancellous bone thermal treatment*, Journal of Optoelectronics and Advanced Materials, 17(7-8), 2015, pp. 1219-1224, ISSN: 1454-4164; WOS:000359967600048, **Q4, IF=0.587 (decembrie 2022).**

## **R2. Articole în reviste indexate ISI Thomson Reuters – Clarivate Analytics – Web of Science Core Collection [IF - Factor de Impact]**

- Ris18.** **A.C. Mocanu**, F. Miculescu, G.E. Stan, R.C. Ciocoiu, M.C. Corobea, M. Miculescu, L.T. Ciocan, *Preliminary Studies on Graphene-Reinforced 3D Products Obtained by the One-Stage Sacrificial Template Method for Bone Reconstruction Applications*, Journal of Functional Biomaterials, 12(1), 2021, Article Number 13, DOI: 10.3390/jfb12010013, eISSN: 2079-4983; WOS:000633127900001.
- Ris19.** F. Miculescu, C. Lută, A.E. Constantinescu, A. Maidaniuc, **A.C. Mocanu**, M. Miculescu, S.I. Voicu, L.T. Ciocan, *Considerations and Influencing Parameters in EDS Microanalysis of Biogenic Hydroxyapatite*, Journal of Functional Biomaterials, 11, 2020, pp. 82, DOI: 10.3390/jfb11040082, eISSN 2079-4983; WOS:000601502900001.
- Ris20.** **A.C. Mocanu**, A.F. Dobre, C.A. Dascălu, A. Maidaniuc, A. Er nuțeanu, M. Soare, R. Zamfir, D. Gheorghe, A. Saceleanu, V. Saceleanu, *Extensive Quality Control Sequence For Non-Destructive Characterization Of Implants For Dental Restorations*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 81, 2019, pp. 225-238, ISSN: 1454-2331; WOS: 000487213500020.
- Ris21.** C. Luta, M. Soare, **A.C. Mocanu**, A. Maidaniuc, A. Ernuteanu, F. Miculescu, *Comprehensive non-destructive testing of metallic implants for orthopedic applications*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 80, 2018, pp. 171-186, ISSN: 1454-2331; WOS:000440890800014.
- Ris22.** A. Maidaniuc, F. Miculescu, **A.C. Mocanu**, S.I. Voicu, M. Miculescu, A. Purcaru, A. Muhuleț, C. Pop, M.E. Rada, *Sinterability study of bovine-derived hydroxyapatite and silver microcomposites*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 79(1), 2017, pp. 145-154, ISSN: 1454-2331; WOS:000405772200015.

## **R3. Articole în reviste de specialitate de circulație internațională recunoscute (indexate în alte Baze de Date Internationale - BDI specifice domeniului)**

- Ris23.** F. Miculescu, L.T. Ciocan, M. Miculescu, **A.C. Mocanu**, A. Maidaniuc, A. Purcaru, O. Preda, *Micro-analytical comparison on elemental composition of nonstoichiometric bovine bone derived hydroxyapatite*, Key Engineering Materials, 2014, 638, pp. 3 -7, DOI: 10.4028/www.scientific.net/KEM.638.3, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303835432-1.x, Indexat SCOPUS .

## V. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE

### P – Proiecte de cercetare-dezvoltare-inovare câștigate prin competiție

#### Pn – Proiecte naționale – Director proiect

**Pn1.** Contract GNAC ARUT 2023 Nr. 82/2023, “ Tehnologie de obținere a unor produse implantabile printate 3D din compozite cu adaos de antibiotic”, CompoBio3DP (15 luni).

#### Pn – Proiecte naționale – Membru în echipă

**Pn2.** Contract PN-III-P2-2.1-PED-2021-1650, PED Nr. 583PED/2022, “Tehnologie nouă pentru fabricarea de implanturi din filamente compozite ranforsate și printabile 3D pentru regenerarea osoasă ghidată”, BoneGapFill (24 luni), Director proiect: Florin Miculescu.

**Pn3.** Contract PN-III-P2-2.1-PED-2016-0892, PED Nr. 108PED/2017, “O nouă tehnologie pentru sinteza și fabricarea implanturilor biomimetice derivate din surse biogene utilizate pentru chirurgia reconstructivă osoasă”, BioImMS (18 luni), Director proiect: Florin Miculescu.

**Pn4.** Contract PN-II-RU-TE-2014-4-0590, TE Nr. 297/2015 “Integrated technology for custom-made biomimetic implants development used for major bone defects reconstruction”, BioMimBone (24 luni), Director proiect: Florin Miculescu.

## VI. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE

### E – Lucrări prezentate la conferințe

**E1.** F. Miculescu, L.T. Ciocan, M. Miculescu, A.C. Mocanu, A. Maidaniuc, A. Purcaru, O. Preda, Micro-analytical comparison on elemental composition of nonstoichiometric bovine bone derived hydroxyapatite, The 6<sup>th</sup> International Conference “Biomaterials, Tissue Engineering & Medical Devices” – BiomMedD’2014, 17-20 Septembrie, Constanța, România.

**E2.** F. Miculescu, A. Purcaru, M. Miculescu, L.T. Ciocan, S.I. Voicu, A. Maidaniuc, A.C. Mocanu, M. Branzei, Hydroxyapatite induced microstructure by cooling rate modification of cancellous bone thermal treatment, The 9<sup>th</sup> International Conference on Materials Science and Engineering – BraMat2015, 5-7 Martie, Brașov, România.

**E3.** F. Miculescu, A. Maidaniuc, L.T. Ciocan, M. Miculescu, E. Matei, A.C. Mocanu, A. Berbecaru, Particle size influence in compositional analysis of bovine bone derived products BIOREMEDI 2015 – The International Seminar on Biomaterials & Regenerative Medicine, 17-20 Septembrie, Oradea, România.

**E4.** A.C. Mocanu, S.I. Voicu, A. Maidaniuc, M. Miculescu, L.T. Ciocan, C.A. Dascălu, A. Berbecaru, F. Miculescu, Synthesis technology and preliminary characterization of marble type precursors-derived hydroxyapatite as bone substituent, The 7<sup>th</sup> International Conference “Biomaterials, Tissue Engineering & Medical Devices” – BiomMedD’2016, 15-17 Septembrie, Constanța, România.

**E5.** A.C. Mocanu, S.I. Voicu, A. Maidaniuc, M. Miculescu, L.T. Ciocan, C.A. Dascălu, A. Berbecaru, F. Miculescu, Conversion procedure and preliminary characterization of Mytilus galloprovincialis seashell-derived ceramics as bone substitute, RoMat 2016 – The 6<sup>th</sup> International Conference on Materials Science and Technologies, 9-12 Noiembrie, București, România.

**E6.** M. Soare, A.C. Mocanu, M.V. Predoi, D. Predoi, C.S. Ciobanu, Ultrasonic spectroscopy characterization of iron oxide nanoparticles suspensions, RoMat 2016 – The 6<sup>th</sup> International Conference on Materials Science and Technologies, 9-12 Noiembrie, București, România.

**E7.** F. Miculescu, A.C. Mocanu, G. Stan, S.I. Voicu, M. Miculescu, A. Maidaniuc, A. Cîmpean, V. Mitran, T. Machedon-Pisu, Influence of the modulated two-step synthesis of biogenic hydroxyapatite on biomimetic products` surface, BraMat 2017 - 10<sup>th</sup> International Conference on Materials Science & Engineering, 8-11 Martie, Brașov, România.

**E8.** A. Maidaniuc, S.I. Voicu, M. Miculescu, C. Andronescu, E. Matei, A.C. Mocanu, I. Pencea, I. Csaki, T. Machedon-Pisu, F. Miculescu, Induced wettability and surface-volume correlation of

- composition for bovine bone derived hydroxyapatite particles, Bramat 2017 - 10<sup>th</sup> International Conference on Materials Science & Engineering, 8-11 Martie, Braşov, România.
- E9.** M. Soare, **A.C. Mocanu**, C. Iordache, M.V. Predoi, D. Predoi, C.S. Ciobanu, Development of broadband ultrasonic spectroscopy for colloidal suspensions characterization, Bramat 2017 - 10<sup>th</sup> International Conference on Materials Science & Engineering, 8-11 Martie, Braşov, România.
- E10.** F. Miculescu, **A.C. Mocanu**, S.I. Voicu, G.E. Stan, M. Miculescu, Two-Step Wet Chemical Synthesis of Calcium Phosphates from Mediterranean Mussel Shells and White Dolomitic Marble, ESB 2017 - 28<sup>th</sup> Annual Conference of the European Society for Biomaterials, 4-8 Septembrie, Atena, Grecia.
- E11.** A.Savin, M.L. Craus, V. Turchenko, F. Novy, **A.C. Mocanu**, M. Soare, J. Grum, O.S. Doroshkevich, Monitoring techniques of yttria stabilized zirconia used as thermal barrier coating, ICNDT 2017 - 14<sup>th</sup> International Conference "Application of Contemporary Non-destructive testing in Engineering", 4-6 Septembrie, Portorož, Slovenia.
- E12.** A. Maidaniuc, M. Miculescu, S.I. Voicu, R.C. Ciocoiu, **A.C. Mocanu**, F. Miculescu, Hydroxyapatite and silver microcomposites with improved mechanical characteristics, RoPM-AM 2017 - 5<sup>th</sup> International Conference on Powder Metallurgy & Advanced Materials, 17-20 Septembrie, Cluj-Napoca, România.
- E13.** **A.C. Mocanu**, A. Maidaniuc, C.A. Dascălu, M. Miculescu, F. Miculescu, Study on experimental and image analysis complementarity as additional tool for characterizing biogenic calcium phosphates morphology, BIOREMED 2017 - The International Seminar on Biomaterials and Regenerative Medicine, 5-7 Octombrie, Timișoara, România.
- E14.** A. Maidaniuc, **A.C. Mocanu**, C.A. Dascălu, M. Miculescu, S.I. Voicu, F. Miculescu, Effect of sintering time on the particle interconnection of bovine bone derived hydroxyapatite powders, BIOREMED 2017 - The International Seminar on Biomaterials and Regenerative Medicine, 5-7 Octombrie, Timișoara, România,
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**Semnătura,**  
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