

LISTA DE LUCRĂRI:

I. TEZA DE DOCTORAT (T)

T1. "Contribuții în domeniul aliajelor de magneziu utilizabile în implantologie" în domeniul Ingineria Materialelor, anul susținerii 2015 în cadrul Universității Politehnica din București

II. CARȚI PUBLICATE (C)

Ca – Antoniac I; Laptoiu D; **Blăjan AI**; Cotruț C; Instrumentar și dispozitive chirurgicale (203 p.), Editura Printech, Bucuresti, 2011, ISBN 978-606-521-665-5.

Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

Cb1.

III. ALTE MATERIALE PUBLICATE (I, D)

I - Culegeri și Îndrumare publicate (separate în **I** - edituri cu ISBN și în **It** - tipografii locale/de instituții sau de uz intern).

I - edituri cu ISBN

I1.

It - tipografii locale/de instituții sau de uz intern

It1.

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

D1.

IV. ARTICOLE / STUDII ÎN EXTENSO PUBLICATE (R, V)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters).

Ris1. Cordunianu MA; Corneschi I; **Bita AI**; Ciocoiu R; Robu A; Antoniac I; Enachescu CI; *Surface analysis of a titanium plate implant used for humerus fracture after mechanical testing*, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume 67, Issue 2, JUN 2024, WOS:001398967500018, (FI = 0,1).

Ris2. Solea (Iordachescu) MR; Semenescu A; Ileana (Blajan) A; Ciuca I; Ciocoiu R; **Bita AI**; Antoniac I; *A study of the surface free energy of stainless steel surgical instruments*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 86, Issue 4, DEC 2024, WOS:001380943500016, (FI = 0,3).

Ris3. Solea (Iordachescu) MR; Semenescu A; Ileana (Blajan) A; **Bita AI**; Ciocoiu R; Antoniac I; *Preliminary study of tin and tich coatings for stainless steel surgical instruments*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 86, Issue 4, DEC 2024, WOS:001380943500022, (FI = 0,3).

- Ris4. Cordonianu MA; Stere A; Iordachescu MR; Ungureanu E; **Bitu AI**; Robu A; Dura H; Cordonianu AGV; *Evaluation of surface properties for different anodized titanium orthopedic screws*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 86, Issue 1, MAR 2024, WOS:001196525500001, (FI = 0,3).
- Ris5. Manescu V; Paltanea G; Antoniac A; Gruionu LG; Robu A; Vasilescu M; Laptoiu SA; **Bitu AI***; Popa GM; Cocosila AL; Silviu V; Porumb A; *Mechanical and Computational Fluid Dynamic Models for Magnesium-Based Implants*, MATERIALS, Volume 17, Issue 4, 2024, (FI = 3,4).
- Ris6. Gheorghita D; Moldovan H; Robu A; **Bitu AI**; Grosu E; Antoniac A; Corneschi I; Antoniac I; Bodog AD; Bacila CI; *Chitosan-Based Biomaterials for Hemostatic Applications: A Review of Recent Advances*, International Journal of Molecular Sciences, Volume 24, Issue 13, July 2023, Article number 10540, WOS:001037279600001, (FI = 5,6).
- Ris7. Bitu T; Corneschi I; E Ungureanu; **Bitu AI***; Ignat ND; Dura H; Carstoc ID; Nicolcescu P, *Influence of heat treatment on microstructure and corrosion behavior of biodegradable Mg-Ca alloy*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 85, Issue 4, Page 247-260, WOS:001126670800024, 2023, (FI = 0,5).
- Ris8. Manescu V; Antoniac A; Antoniac I; Paltanea G; Miculescu M; **Bitu AI**; Laptoiu S; Niculescu M; Stere A; Paun C; Cristea MB; *Failure Analysis of Ultra-High Molecular Weight Polyethylene Tibial Insert in Total Knee Arthroplasty*, MATERIALS, Volume 15, Issue 20, OCT 2022, WOS:000872807700001, (FI = 3,4).
- Ris9. Gheorghita D; Grosu E; Robu A; Ditu LM; Deleanu IM; Pircalabioru GG; Raiciu AD; **Bitu AI***; Antoniac A; Antoniac IV, *Essential Oils as Antimicrobial Active Substances in Wound Dressings*, MATERIALS, Volume 15, Issue19, OCT 2022, WOS:000866914900001, (FI = 3,4).
- Ris10. **Bitu AI**; Antoniac I; Miculescu M; Stan GE; Leonat L; Antoniac A; Constantin B; Forna N; *Electrochemical and In Vitro Biological Evaluation of Bio-Active Coatings Deposited by Magnetron Sputtering onto Biocompatible Mg-0.8Ca Alloy*, MATERIALS, Volume 15, Issue 9, MAY 2022, WOS:000795475600001, (FI = 3,4).
- Ris11. Quan PH; Antoniac I; Miculescu F; Antoniac A; Manescu V; Robu A; **Bitu AI**; Miculescu M; Saceleanu A; Bodog AD; Saceleanu V; *Fluoride Treatment and In Vitro Corrosion Behavior of Mg-Nd-Y-Zn-Zr Alloys Type*, MATERIALS, Volume 15, Issue 2, JAN 2022, WOS:000757583600001, (FI = 3,4).
- Ris12. Yuan B; Chen H; Zhao R; Deng X; Chen G; Yang X; Xiao Z; Antoniac A; **Bitu AI**; Zhang K; Zhu X; Antoniac VI; Hai S; Zhang X; *Construction of a magnesium hydroxide/graphene oxide/hydroxyapatite composite coating on Mg-Ca-Zn-Ag alloy to inhibit bacterial infection and promote bone regeneration*, Bioactive Materials, December 2022, <https://doi.org/10.1016/j.bioactmat.2022.02.030>; FI=18,9 (Q1)
- Ris13. Chen H; Yuan B; Zhao R; Yang X; Xiao Z; Aurora A; **Bitu AI**; Antoniac I; Zhang X; *Evaluation on the corrosion resistance, antibacterial property and osteogenic activity of biodegradable Mg-Ca and Mg-Ca-Zn-Ag alloys*, JOURNAL OF MAGNESIUM AND ALLOYS, June 2021, <https://doi.org/10.1016/j.jma.2021.05.013>, (IF=15,8).
- Ris14. Rau JV; Antoniac I; Fosca M; De Bonis A; **Blajan AI (Bitu AI)**; Cotrut C; Graziani V; Curcio M; Cricenti A; Niculescu M; Ortenzi M; Teghil R; *Glass-ceramic coated Mg-Ca alloys for biomedical implant applications*, MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR

BIOLOGICAL APPLICATIONS, Volume 64, 362-369, 2016, Accession Number: WOS: 000376547700044, ISSN: 0928-4931, (FI = 7,9).

Ris15. **Bita AI**; Antoniac A; Cotrut C; Vasile E; Ciuca I; Niculescu M; Antoniac I; *In vitro degradation and corrosion evaluation of Mg-Ca alloys for biomedical applications*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Volume 18, Issue 3-4, 394-398, 2016. Accession Number: WOS: 000375964800029, ISSN: 1454-4164, (FI = 0,5).

Ris16. **Bita AI**; Stan GE; Niculescu M; Ciuca I; Vasile E; Antoniac I; *Adhesion evaluation of different bioceramic coatings on Mg-Ca alloys for biomedical applications*, JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, Volume 30, Issue 18, 1968-1983, 2016, DOI: 10.1080/01694243.2016.1171569, Accession Number: WOS: 000375044700004, ISSN: 0169-4243, (FI = 2,3).

Ris17. Antoniac I; Adam R*; **Bita A**; Miculescu M*; Trante O; Petrescu IM; Pogarasteanu M; *Comparative Assessment of In Vitro and In Vivo Biodegradation of Mg-1Ca Magnesium Alloys for Orthopedic Applications*, MATERIALS, Volume 14, Issue 1, 1-20, 2021, Published: 26 December 2020, DOI: <https://doi.org/10.3390/ma14010084>, (FI = 3,4).

Ris18. **Bita AI**, Antoniac I, Ciuca I, *Potential use of Mg-Ca alloys for orthopedic applications*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 78, Issue 3, 173-184, 2016, Accession Number: WOS: 000417053200016, ISSN: 1454-2331, (FI = 0,5).

Risb - Reviste de specialitate de circulație internațională recunoscute (indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță).

Risb1. Antoniac I; Lesci G; **Blajan A (Bita AI)**; Vitioanu G; Antoniac A; *Bioceramics and biocomposites from marine sources*, KEY ENGINEERING MATERIALS, Volume 672, 276-292, 2015, DOI: 10.4028/www.scientific.net/KEM.672.276, ISSN: 10139826, Indexat SCOPUS.

Rns- Reviste de specialitate de circulație națională recunoscute de CNCSIS.

Rns1.

Vis - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters.

Vis1.

Visb - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a publicațiilor pe baza unor criterii de performanță.

Visb1. Ileana (Blăjan) A; Blăjan D; Ciucă I; **Bita AI**; Antoniac I; *Current issues and potential advances of 3D printing in medical field*, International Conference On Materials Science & Engineering, Brașov, România, 13-16 Martie, 2024.

Visb2. Blăjan D; Ileana (Blăjan) A; Ciucă I; **Bita AI**; Antoniac I; *Evaluation of surgical instruments produced by additive manufacturing from medical, materials, production and economic points of view*, International Conference On Materials Science & Engineering, Brașov, România, 13-16 Martie, 2024.

- Visb3. Șolea (Iordăchescu) MR; Semenescu A; **Bița AI**; Ciocoiu R; Antoniac I; *Preliminary study on the use of TiN and TiCN coatings to enhance the surface characteristics of surgical instruments*; International Conference – Biomaterials, Tissue Engineering & Medical Devices, Bucuresti, Romania, 10-12 octombrie 2024.
- Visb4. Bița T; Ciucă I; **Bița AI**; Antoniac I; *Possible applications of Mg alloys for manufacturing diverse biodegradable orthopedic implant*, International Conference – Biomaterials, Tissue Engineering & Medical Devices, Bucuresti, Romania, 10-12 octombrie 2024.
- Visb5. Ileana (Blăjan) A; Ciucă I; Ciocoiu R; **Bița AI**; Antoniac I; *Contemporary challenges and prospective advancements of 3D printing in medical field*, International Conference – Biomaterials, Tissue Engineering & Medical Devices, Bucuresti, Romania, 10-12 octombrie 2024.
- Visb6. Ileana (Blăjan) A; Ciucă I; Ciocoiu R; **Bița AI**; Antoniac I; *Potential Challenges in the Production of Surgical Instruments using Additive Manufacturing*, International Conference on Materials Science and Technologies, Bucuresti, Romania, 14-15 noiembrie 2024.
- Visb7. **Bița AI***; Ciocoiu R; Șolea (Iordăchescu) MR; Semenescu A; Antoniac I; *Initial investigation on the use of TiN and TiCN coatings to improve the surface properties of medical instruments for surgery*, International Conference on Materials Science and Technologies, Bucuresti, Romania, 14-15 noiembrie 2024.
- Visb8. Gheorghită D; Antoniac I; Moldovan M; Antoniac A; Robu A; **Bița A**; Ficăi A; Moteliță L; *Influence of lavender essential oil on antioxidant, physical and biological properties of chitosan sponge for hemostatic applications*, International Conference on Biomaterials and Regenerative Medicine, p. 192, Sibiu, România, 19-21 Iulie 2023.
- Visb9. Stere A; **Bița AI***; Antoniac I; *Determining the possible causes of failure of an orthopedic screw-plate implant for clavicle fractures*, International Conference on Biomaterials and Regenerative Medicine, p. 198, Sibiu, România, 19-21 Iulie 2023.
- Visb10. Iordăchescu MR; Streza A; **Bița AI***; *Microstructural characterization of metallic biomaterials used in the execution of surgical instruments for orthopedics*, International Conference on Biomaterials and Regenerative Medicine, p. 199, Sibiu, România, 19-21 Iulie 2023.
- Visb11. Bița T; Ciuca I; Miculescu M; Paltanea G; **Bița AI**; Corneschi I; Dura H; Antoniac I; *Evaluation of the fluoride conversion coating effect on corrosion behavior of Mg–Zn–Ca–Mn alloys*, International Conference on Biomaterials and Regenerative Medicine, p. 201, Sibiu, România, 19-21 Iulie 2023.
- Visb12. Manescu (Paltanea) V; Antoniac I; Antoniac A; **Bița AI**; Paltanea G; Niculescu M; Laptoiu S; *Retrieval Analysis of UHMWPE Tibial Insert of Knee Prostheses*, International Conference – Biomaterials, Tissue Engineering & Medical Devices, p. 176, Bucuresti, Romania, 20-22 Iulie 2022.
- Visb13. Stere A; **Bița AI**; Ciocoiu R; Antoniac I; *Biomechanical testing of modified proximal humerus fracture fixation plates*, International Conference – Biomaterials, Tissue Engineering & Medical Devices, p. 194, Bucuresti, Romania, 20-22 Iulie 2022.
- Visb14. **Bița AI**; Antoniac A; Miculescu F; Robu A; Miculescu M; Antoniac I; *The influence of the test environment on the evaluation of the biodegradation of the Mg0.8Ca alloy*, International Conference – Biomaterials, Tissue Engineering & Medical Devices, p. 195, Bucuresti, Romania, 20-22 Iulie 2022.

Visb15. Gheorghita D; Grosu E; Robu A; Ditu LM; Deleanu IM; Pircalabioru GG; Raiciu AD; **Bita AI**; Antoniac A; Antoniac IV, *Essential Oils as Antimicrobial Active Substances in Wound Dressings*, International Conference – Biomaterials, Tissue Engineering & Medical Devices, p. 205, Bucuresti, Romania, 20-22 Iulie 2022.

Visb16. Bita T; Bololoi R; Vasile E; **Bita AI**; Antoniac A; Antoniac I; Ciuca I; *Development of functional chitosan-based coatings on Mg-Ca alloys*, International Conference – Biomaterials, Tissue Engineering & Medical Devices, p. 209, Bucuresti, Romania, 20-22 Iulie 2022.

Visb17. Adam R; Antoniac I; **Bita AI**; Miculescu M; Petrescu M; *Intramedullary Mg/Ca nails callus formation during fracture healing in rabbit*, p. 136, International Conference on Materials Science and Technologies, 24-25 noiembrie 2022.

Visb18. **Bita AI**; Antoniac A; Antoniac I; *Evaluation of the test environment influence on some biodegradable magnesium alloys*, p. 138, International Conference on Materials Science and Technologies, 24-25 noiembrie 2022.

Visb19. Stere A; **Bita AI**; Antoniac I; *Comparative study of implants for proximal humerus fracture consolidation and current clinical challenges*, p. 140, International Conference on Materials Science and Technologies, 24-25 noiembrie 2022.

Visb20. Scripcaru A; Sirbu PD; Ciocoiu R; **Bita AI**; Antoniac I; Stere A; *Biomechanical comparison of proximal humerus fracture fixation using plates vs. nailing*, p. 148, International Conference on Materials Science and Technologies, 24-25 noiembrie 2022.

V. BREVETE DE INVENȚIE / INOVAȚII (B, A)

B - Brevete de invenție.

B1. -

A - Inovații și alte creații.

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P, F)

P – Proiecte de cercetare-dezvoltare-inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate (**Pi** – internationale, **Pn** - nationale).

Pi - Proiecte internationale de cercetare-dezvoltare-inovare obtinute prin competitie, pe baza de contract/grant la care am fost director de proiect / responsabil al partenerului.

Pi1.

Pic - Proiecte internationale de cercetare-dezvoltare-inovare obtinute prin competitie, pe baza de contract/grant la care am fost membru in colectivul de lucru.

Pic1.

Pn - Proiecte nationale de cercetare-dezvoltare-inovare obtinute prin competitie la care am fost director proiect/ responsabil al partenerului.

Pn1.

Pnc - Proiecte naționale de cercetare-dezvoltare-inovare obținute prin competiție la care am fost membru în colectivul de lucru.

Pnc1.

F - Rapoarte științifice

F1.

VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

E – Lucrări prezentate la diferite seminarii/expoziții, conferințe, etc.

E1. Ana – Iulia Bița, *Evaluation of the test environment influence on some biodegradable magnesium alloys*, 9th International Conference on Materials Science and Technologies – ROMat 2022.

Data,
25.09.2024

Semnătura,
Ș.l.dr.ing. Bița Ana – Iulia