

## LISTA DE LUCRĂRI:

### I. TEZA DE DOCTORAT (T)

- T1. Contribuții privind dezvoltarea unor noi materiale din categoria cimenturilor acrilice antimicrobiene utilizate pentru fixarea endoprotezelor de șold: Prof.dr.ing. Iulian ANTONIAC

### II. CĂRȚI PUBLICATE (C)

**Ca** – Cărți/cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

Ca1.

Ca2

**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. Gherghescu I.A., Dumitrescu R.E, **Robu A.**, Trante O., Ciucă S., Tratamente termice - Lucrări de laborator, Editura Printech, 116

**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. Autori: Grosu Elena, Antoniac Aurora, Antoniac Iulian, Deleanu Iuliana Mihaela, **Alina Robu**, Materiale utilizate in medicina – aspecte interdisciplinare, Capitol: Perspective in sistemele terapeutice transdermice, Editura Printech, Bucuresti, ISBN 978-606-23-1306-7, COD CNC SIS 54, 2021, 1-39 pp
- D2. Autor: **Alina Robu**, Materiale utilizate in medicina – aspecte interdisciplinare, Capitol: Cimenturi osoase utilizate în ortopedie, Editura Printech, Bucuresti, ISBN 978-606-23-1306-7, COD CNC SIS 54, 2021, 83-123 pp

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

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

- Ris1. **Robu, A.**; Kaya, M.G.A.; Antoniac, A.; Kaya, D.A.; Coman, A.E.; Marin, M.-M.; Ciocoiu, R.; Constantinescu, R.R.; Antoniac, I. The Influence of Basil and Cinnamon Essential Oils on Bioactive Sponge Composites of Collagen Reinforced with Hydroxyapatite. Materials 2025,

- 18, 626. <https://doi.org/10.3390/ma18030626>
- Ris2. Cristiana Ioana Tatia, Maria Mirabela Iancu, Aurora Antoniac Alina Necşulescu, **Alina Robu\***, Marius Lucian Vasilescu, Iuliana Corneschi, Anca Maria Fratila, Comparative analysis of the surface properties of different dental implants, **U.P.B. Sci. Bull., Series B**, Vol. 86, Iss. 4, 2024 ISSN 1454-2331
- Ris3. Antoniac, I.; Valeanu, N.; Niculescu, M.; Antoniac, A.; **Robu, A.**; Popescu, L.; Manescu, V.; Anusca, D.; Enachescu, C.I. Outcomes of Birmingham Hip Resurfacing Based on Clinical Aspects and Retrieval Analysis of Failed Prosthesis. **Materials** 2024, 17, 3965. <https://doi.org/10.3390/ma17163965>
- Ris4. Veronica Manescu, Gheorghe Paltanea, Aurora Antoniac, Lucian Gheorghe Gruionu, **Alina Robu**, Marius Vasilescu, Stefan Alexandru Laptoiu, Ana Iulia Bitu, Georgiana Maria Popa, Andreea Liliana Cocosila, Vlad Silviu, Anca Porumb, Mechanical and Computational Fluid Dynamic Models for Magnesium-Based Implants, **Materials**, Volume 17, Issue 4, Page 830, 2024, Document Type Article, eISSN 1996-1944, <https://doi.org/10.3390/ma17040830>
- Ris5. Forna, DA; **Robu, A\***; Budacu, C; Petre, M; Topoliceanu, C; Dana, SM; Stamatin, O; Antoniac, I; Forna, N, Study regarding the role of barrier membranes in guided bone regeneration techniques, **Romanian Journal of Oral Rehabilitation**, Volume 15, Issue 2, Page 13-25, 2023, Document Type Article, Accession Number WOS: 001035463900002, eISSN 2066-7000
- Ris6. Nazem Dawod, Dan Ioan Stoia, Sergiu Focşăneanu, Aurora Antoniac, **Alina Robu\***, Horaţiu Dura, Ioana Dana Cârstoc, Bogdan Radu Dragomir, Shear stress analysis by finite elements of a metal-ceramic dental bridge on a CoCr alloys support, **UPB Scientific Bulletin series B – Chemistry and material science**, Volume 85, Issue 3, Page 193 - 206, 2023, Document Type Article, Accession Number WOS:000805934600015, ISSN 1454-2331
- Ris7. Dawod, N; Antoniac, A; Antoniac, I; Miculescu, M; Robu, A; Ungureanu, E; Agop-Forna, D (; Cârstoc, ID; Dura, H; Dragomir, BR, Corrosion behavior and microstructural analysis of some Co-Cr alloys used for metal- ceramic restorations in dentistry, **UPB Scientific Bulletin series B – Chemistry and material science**, Volume 85, Issue 4, Page 317-330, 2023, Document Type Article, Accession Number WOS: 001126670800025, ISSN 1454-2331
- Ris8. Lavinia Dragomir (Nicolescu), Aurora Antoniac, Veronica Manescu (Paltanea), **Alina Robu**, Mihaela Dinu, Iulian Pana, Cosmin Mihai Cotrut, Earar Kamel, Iulian Antoniac, Julietta V. Rau, Alina Vladescu (Dragomir), Preparation and characterization of hydroxyapatite coating by magnetron sputtering on Mg–Zn–Ag alloys for orthopaedic trauma implants, **Ceramics International**, (Q1) Volume 49, Issue 16, 2023, Pages 26274-26288, ISSN 0272-8842, <https://doi.org/10.1016/j.ceramint.2023.05.116>.
- Ris9. Gheorghită, D.; Moldovan, H.; **Robu, A.**; Biţa, A.-I.; Grosu, E.; Antoniac, A.; Corneschi, I.; Antoniac, I.; Bodog, A.D.; Băcilă, C.I. Chitosan-Based Biomaterials for Hemostatic Applications: A Review of Recent Advances. **International Journal of Molecular Science**, (Q1), **2023**, 24, 10540. <https://doi.org/10.3390/ijms241310540>
- Ris10. Marcu, L.; Manescu, V.; Antoniac, A.; Paltanea, G.; **Robu, A.**; Mohan, A.G.; Grosu, E.; Corneschi, I.; Bodog, A.D. Antimicrobial Solutions for Endotracheal Tubes in Prevention of Ventilator-Associated Pneumonia. **Materials**, (Q1), **2023**, 16, 5034. <https://doi.org/10.3390/ma16145034>

- Ris11. Paltanea, G.; Manescu, V.; Antoniac, I.; Antoniac, A.; Nemoianu, I.V.; **Robu, A.**; Dura, H. A Review of Biomimetic and Biodegradable Magnetic Scaffolds for Bone Tissue Engineering and Oncology. *International Journal Of Molecular Sciences*, (Q1), **2023**, *24*, 4312. <https://doi.org/10.3390/ijms24054312>
- Ris12. Streza, A.; Antoniac, A.; Manescu, V.; Paltanea, G.; **Robu, A.**; Dura, H.; Verestiuc, L.; Stanica, E.; Voicu, S.I.; Antoniac, I.; et al. Effect of Filler Types on Cellulose-Acetate-Based Composite Used as Coatings for Biodegradable Magnesium Implants for Trauma. *Materials*, (Q1), **2023**, *16*, 554. <https://doi.org/10.3390/ma16020554>
- Ris13. Gheorghita, D; **Robu, A\***; Antoniac, A; Antoniac, I; Ditu, LM; Raiciu, AD; Tomescu, J; Grosu, E; Saceleanu, A, In Vitro Antibacterial Activity of Some Plant Essential Oils against Four Different Microbial Strains / **Applied Sciences-Basel** (Q2), Volume 12, Issue 19, Article Number 9482, 2022, DOI 10.3390/app12199482, Document Type Article, Accession Number WOS: 000866648700001, FI = 2.838, eISSN 2076-3417
- Ris14. Gheorghita, D; Grosu, E; **Robu, A**; Ditu, LM; Deleanu, IM; Pircalabioru, GG; Raiciu, AD; Bitu, AI; Antoniac, A; Antoniac, VI, Essential Oils as Antimicrobial Active Substances in Wound Dressings / **Materials** (Q1), Volume 15, Issue 19, Article Number 6923, 2022, DOI 10.3390/ma15196923, Document Type Article, Accession Number WOS:000866914900001, FI = 3.748, eISSN 1996-1944
- Ris15. **Robu, A**; Antoniac, A; Ciocoiu, R; Grosu, E; Rau, JV; Fosca, M; Krasnyuk, Jr; Pircalabioru, GG; Manescu, V; Antoniac, I; Gradinaru, S., Effect of the Antimicrobial Agents Peppermint Essential Oil and Silver Nanoparticles on Bone Cement Properties / **Biomimetics** (Q2), Volume 7, Issue 3, Article Number 137, 2022, DOI 10.3390/biomimetics7030137, Document Type Article, Accession Number WOS:000858397900001, FI = 3.743, eISSN 2313-7673
- Ris16. Cimpean, SI; Burtea, ALC; Chiorean, RS; Dudescu, MC; Antoniac, A; **Robu, A**; Campian, RS; Timis, LI.- Evaluation of Bond Strength of Four Different Root Canal Sealers / **Materials** (Q1), Volume 15, Issue 14, Article Number 4966, 2022, DOI 10.3390/ma15144966, Document Type Article, Accession Number WOS:000833630800001, FI = 3.748, eISSN 1996-1944
- Ris17. **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** (Q1), Volume 15, Issue 9, Article Number 2967, 2022, DOI 10.3390/ma15092967, Document Type Article, Accession Number WOS: 000796111800001, FI = 3.748, eISSN 1996-1944
- Ris18. Antoniac, I; Miculescu, M; Manescu, V; Stere, A; Quan, PH; Paltanea, G; **Robu, A**; Earar, K. Magnesium-Based Alloys Used in Orthopedic Surgery, **MATERIALS** (Q1), Volume 15, Issue 3, Article Number 1148, 2022, DOI 10.3390/ma15031148, Document Type Review, Accession Number WOS:000756544000001, FI = 3.748, eISSN 1996-1944
- Ris19. Milea, G.C.; Neculescu, D.A.; Ghiban, B; Stere, A; **Robu, A**; Bujor, C; Ene, R; Forna, Failure analyses of a non-cemented hip prostheses failed due to the stem fracture, **UPB Scientific Bulletin series B – Chemistry and material science**, Volume 84, Issue 2, Page 175-186, 2022, Document Type Article, Accession Number WOS:000805934600015, ISSN 1454-2331

- Ris20. 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-Zr Alloys Type, **Materials** (Q1), Volume 15, Issue 2, Article Number 566, 2022, DOI 10.3390/ma15020566, Document Type Article, Accession Number WOS:000757583600001, FI = 3.748, eISSN 1996-1944
- Ris21. **Robu, A.**; Antoniac, A.; Grosu, E.; Vasile, E.; Raiciu, A.D.; Iordache, F.; Antoniac, V.I.; Rau, J.V.; Yankova, V.G.; Ditu, L.M.; Saceleanu, V. *Additives Imparting Antimicrobial Properties to Acrylic Bone Cements*, **Materials** (Q1), Volume 14, Issue 22, Article Number 7031, 2021, , DOI 10.3390/ma14227031, Document Type Article, Accession Number WOS:000727445400001, FI = 3.748, eISSN 1996-1944

**Risb-** Reviste de specialitate de circulație internațională recunoscute (indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta).

- Risb1. Mihai Alexandru Cordonianu, Iuliana Corneschi, Ana Iulia Bița, Robert Ciocoiu, **Alina Robu**, Iulian Antoniac, Cătălin Ionel Enachescu, Surface analysis of a titanium plate implant used for humerus fracture after mechanical testing, **Acta Technica Napocensis**, Series: Applied Mathematics, Mechanics, and Engineering, Vol. 67, Issue II, June, 2024
- Risb2. Niculae Văleanu, Larisa Popescu, Aurora Antoniac, **Alina Robu\***, Dan Anusca, Influence of the bone cements and cementation technique on the performance of the birmingham hip prosthesis, **European Journal of Materials Science and Engineering**, Volume 9, Issue 4, 2024, DOI: 10.36868/ejmse.2024.09.04.269, pp. 269-280
- Risb3. Cristiana Ioana Tatia, Maria Iancu, **Alina Robu\***, Octavian Trante, Iulian Antoniac, Anca Maria Fratila, **European Journal Of Materials Science And Engineering**, Volume 9, Issue 4, 2024: 309-322 | www.ejmse.ro | ISSN: 2537-4338 DOI: 10.36868/ejmse.2024.09.04.309
- Risb4. Maria Mirabela Iancu, Cristiana Ioana Tatia, **Alina Robu\***, Marius Lucian Vasilescu, Iulian Antoniac, Anca Maria Fratila, Current trends on materials and methods for teeth whitening, **European Journal Of Materials Science And Engineering**, Volume 9, Issue 4, 2024: 323-336 | www.ejmse.ro | ISSN: 2537-4338 DOI: 10.36868/ejmse.2024.09.04.323
- Risb5. Iulian Spanu, **Alina Robu\***, Aurora Antoniac, Iuliana Corneschi, Veronica Manescu (Paltanea), Larisa Popescu, Dragos Alexandrescu, A bibliometric analysis of copper and antimicrobial copper coatings, **European Journal of Materials Science and Engineering**, Volume 9, Issue 2, 2024, DOI: 10.36868/ejmse.2024.09.02.109, pp. 109-124
- Risb6. Antoniac Petrut, **Ivanov Alina**, Iulian Vasile Antoniac, Florin Miculescu, Cosmeleata Georgeta - Experimental researches about technological and microstructural aspects in the case of cobalt-chromium dental alloys / *European Cells & Materials.*, Volume 13, (Suppl. 3):28, Published 2007, Document Type Article, ISSN 1473-2262

**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.

## **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 obținute prin competiție, pe bază de contract/grant, în țară/străinătate (**Pi** – internaționale, **Pn**- naționale).

**Pi** -Proiecte internaționale de cercetare-dezvoltare-inovare obținute prin competiție, pe baza de contract/grant la care am fost director de proiect / responsabil al partenerului.

Pi1.

**Pic**-Proiecte internaționale de cercetare-dezvoltare-inovare obținute prin competiție, pe baza de contract/grant la care am fost membru în colectivul de lucru.

Pic1. New technological approaches in dental technique, Finantator: Agenția Națională pentru Programe Comunitare în Domeniul Educației și Formării Profesionale (AN), (2023 - 2025) 10/10.2023 - 30.09.2025, Parteneri: Universitatea Națională de Știință și Tehnologie Politehnica București, Universidad de Las Palmas de Gran Canaria, Universitadegli Studi Niccolo Cusano Telematica Roma

Pic2. Contract 100PCE/2021, Meta-structuri formate din acoperiri compozite ale unor implanturi biodegradabile din aliaj Mg-Ca pentru regenerare osoasă, P4 - Cercetare fundamentală și de frontieră. Proiecte de cercetare exploratorie, Director proiect UPB (2021-2023).

**Pn** -Proiecte naționale de cercetare-dezvoltare-inovare obținute prin competiție la care am fost director proiect/ responsabil al partenerului.

Pn1. Contract 47/2023 GNAC ARUT, Pansamente bioactive multifuncționale cu uleiuri esențiale, Director grant (2023-2024)

**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. Lavinia Dragomir, **Alina Robu**, Aurora Antoniac\*, Iulian Antoniac, Alina Vladescu, Horatiu

- Dura, Norin Forna, Mihai Bogdan Cristea and Ioana Carstoc, Biodegradation Evaluation of some Magnesium-based Alloy type Mg-Zn-Zr-Ag before and after Synthetic Hydroxyapatite Coating using RF-Magnetron Sputtering, International Conference on Innovative Research, ICIR EUROINVENT, IASI, May, 26-27, 2022
- E2. Ana-Iulia Bița, Aurora Antoniac, Florin Miculescu, **Alina Robu**, Marian Miculescu, Iulian Antoniac - The influence of the test environment on the evaluation of the biodegradation of the Mg0.8Ca alloy - 9th International Conference "Biomaterials, Tissue Engineering & Medical Devices" BIOMMEDD'2022, Bucuresti, Romania
- E3. Dragoș Alexandrescu, Iulian Antoniac, Robert Ciocoiu, Alexandru Stere, **Alina Robu** – Combining additive manufacturing with conventional production methods to obtain new materials for prosthetic cups- 9th International Conference "Biomaterials, Tissue Engineering & Medical Devices" BIOMMEDD'2022, Bucuresti, Romania
- E4. Alexandru Streza, Antoniac Aurora, **Alina Robu**, Diana Popescu, Voicu Stefan, Robert Ciocoiu, Antoniac Iulian - Characterization of the polylactic acid for magnesium alloys- 9th International Conference "Biomaterials, Tissue Engineering & Medical Devices" BIOMMEDD'2022, Bucuresti, Romania
- E5. **Alina Robu\***, Alina Antoniac, Iulian Antoniac, Robert Ciocoiu, Julietta V. Rau, Marco Fosca, Ivan I. Krasnyuk (Jr.), Sebastian Gradinaru, Study of the mechanical properties of new types of antimicrobial acrylic bone cement — oral presentation – Biomaterials and Novel Technologies for Healthcare, BIOMAH 2022, Roma, Italia
- E6. Iulian Spânu\*, Alina Antoniac, Iulian Antoniac, **Alina Robu**, Daniela Gheorghîță, Alexandru Streza - Copper-based composite coating as an Antimicrobial Surface – Biomaterials and Novel Technologies for Healthcare, BIOMAH 2022, Roma, Italia
- E7. **Alina Robu\***, Aurora Antoniac, Iulian Antoniac, Serban Nicolae, Eugeniu Vasile, Robert Ciocoiu, Adrian Ghiurau, Lavinia Marcu, Aurel Mohan - The impact of the addition of different antimicrobial agents on the structure and properties of PMMA-based bone cements – oral presentation - 9th International Conference on Materials Science and Technologies – RoMat 2022, Bucuresti, Romania
- E8. Daniela Gheorghita, Elena Grosu, **Alina Robu**, Lia Mara Ditu, Iuliana Mihaela Deleanu, Gratiela Gradisteanu Pircalabioru, Aurora Antoniac, Iulian Antoniac – Antimicrobial effects generated by essential oils in wound dressings – oral presentation - 9th International Conference on Materials Science and Technologies – RoMat 2022, Bucuresti, Romania
- E9. Andrei Scripcaru, Paul Dan Sirbu, Robert Ciocoiu\*, Ramona Turcu, Octavian Trante, Iulian Antoniac, **Alina Robu**, Alexandru Streza - A wetting study on the surface of stressed humerus fixation plates - 9th International Conference on Materials Science and Technologies – RoMat 2022, Bucuresti, Romania
- E10. Iulian Spânu\*, Aurora Antoniac, **Alina Robu**, Daniela Gheorghîță, Alexandru Streza, Iulian Antoniac – Antimicrobial Copper-Based Coatings: Potential Biomedical Applications - 9th International Conference on Materials Science and Technologies – RoMat 2022, Bucuresti, Romania
- E11. **Alina Robu**, Iulian Antoniac, Veronica Mănescu (Păltănea), Robert Bololoi, Lavinia Nicolescu - Mechanical properties and in vitro degradation on biodegradable Mg-Zn-Ca alloys- International Conference BioReMed 2023, Sibiu, Romania
- E12. Aurora Antoniac, Iulian Antoniac, **Alina Robu**, Gheorghe Păltănea, Daniela Gheorghîță, Iuliana Corneschi - Polymeric-based coatings for biodegradable Mg alloys - International 2023, Sibiu, Romania
- E13. Nazem Dawod, Iulian Antoniac, Marian Miculescu, Aurora Antoniac, **Alina Robu**, Elena Ungureanu

- Influence of alloying with precious metals on the microstructure and corrosion resistance of the Co-Cr dental alloy- International Conference BioReMed 2023, Sibiu, Romania
- E14. Maria Eleonora Gherghina, Lavinia Mărcuț, Veronica Mănescu (Păltânea), Aurora Antoniac, Gheorghe Păltânea, **Alina Robu**, Aurel George Mohan, Iuliana Corneschi, Robert Ciocoiu, Iulian Antoniac Wetting properties of 3D printed antimicrobial PLA- International Conference BioReMed 2023, Sibiu, Romania
- E15. Adriana Ileana (Blăjan), Robert Ciocoiu, Ion Ciucă, Doru Blăjan, Tiberiu Bița, **Alina Robu**, Gabriel Cristescu, Nicolae Văleanu Relating the structure with the mechanical behavior of surgical guides obtained by FDM- International Conference BioReMed 2023, Sibiu, Romania
- E16. Iulian Spânu, Aurora Antoniac, **Alina Robu**, Alexandru Streza, Iulian Antoniac Surface properties for the thermal spray copper-based coatings on different metallic alloys- International Conference BioReMed 2023, Sibiu, Romania
- E17. Sergiu Focsaneanu, Antoniac Iulian, Aurora Antoniac, **Alina Robu**, Spânu Iulian A systematic review of dental surgical drill- International Conference BioReMed 2023, Sibiu, Romania.
- E18. **Alina Robu\***, Aurora Antoniac, Daniela Gheorghita, Iulian Antoniac - Antimicrobial effect of four essential oils for wound dressing application – International Conference 3Biomat 2023, Bucuresti, Romania - poster presentation.
- E19. Veronica Manescu (Paltanea), Aurora Antoniac, Iulian Antoniac, Gheorghe Paltanea, **Alina Robu** - Biodegradation behaviour of magnesium alloys Mg-Zn-Ag coated with hydroxyapatite in simulated body fluid - The 14th International Conference on Key Engineering Materials (ICKEM 2024), Dubai, UAE – oral presentation.
- E20. Iuliana Corneschi, Lavinia Mărcuț, Larisa Popescu, Aurora Antoniac, Veronica Paltanea, **Alina Robu**, Aurel Mohan - Improving the surface of the endotracheal tube against biofilm formation - The 13th International Conference on Materials Science & Engineering (BRAMAT 2024), Braşov, România – poster presentation.
- E21. **Alina Robu**, Aurora Antoniac, Daniela Gheorghita, Veronica Manescu Paltanea, Ana-Iulia Bița, Iulian Antoniac - The antimicrobial potential of cinnamon and basil essential oils in wound dressings, 12th World Biomaterials Congress (WBC 2024), Daegu, Republic of Korea, on May 26-31, 2024 – poster presentation.
- E22. Sergiu Focșăneanu, Iulian Antoniac, **Alina Robu**, Dragos Alexandrescu, Aurora Antoniac, Robert Ciocoiu, Kamel Eararand Ion Ciuca - Surface modifications of dental material to improve adhesion and interaction with dental tissues - 10th International Conference “Biomaterials, Tissue Engineering & Medical Devices” BIOMMEDD’2024, Bucuresti, Romania, 2024 – poster presentation.
- E23. **Alina Robu**, Madalina Georgiana Albu Kaya, Aurora Antoniac, Iulian Antoniac, Elena – Eli Pieptea (Popescu) - Collagen-based bioactive wound dressings loaded with basil essential oil and hydroxyapatite - 10th International Conference “Biomaterials, Tissue Engineering & Medical Devices” BIOMMEDD’2024, Bucuresti, Romania, 2024 – poster presentation.
- E24. Iulian Spânu, Aurora Antoniac, **Alina Robu**, Iulian Antoniac, Robert Bololoil, Robert Ciocoiu - Antimicrobial copper coatings for hospital environments 10th International Conference “Biomaterials, Tissue Engineering & Medical Devices” BIOMMEDD’2024, Bucuresti, Romania, 2024 – poster presentation.
- E25. **A. Robu\***, A. Antoniac, I. Antoniac, R. Ciocoiu, M. Albu - The antimicrobial potential of cinnamon essential oil in wound dressings – Biomaterials and Novel Technologies for Healthcare, BIOMAH 2024, Roma, Italia – oral presentation
- E26. Veronica Mănescu (Paltanea), I. Antoniac, A. Antoniac, G. Paltanea, **A. Robu**, A. Streza, V. Geanta,

- R. Stefanoiu, M.L. Vasilescu, Contributions regarding the fabrication methods for structures made by Mg-Zn-Mn-Ca alloy potentially used as bone substitutes - 10th International Conference on Materials Science and Technologies – RoMat 2024, Bucuresti, Romania– oral presentation
- E27. Iulian Spânu\*, A. Antoniac, **A. Robu**, A. Streza, R. Ciocoiu, I. Antoniac, Passive fire protection products for cross-sealing - 10th International Conference on Materials Science and Technologies – RoMat 2024, Bucuresti, Romania– oral presentation
- E28. I. Corneschi\*, A. Cordunianu, R. Ciocoiu, A. Antoniac, A. Streza, **A. Robu**, Metallurgical analysis of the failed gamma nail - 10th International Conference on Materials Science and Technologies – RoMat 2024, Bucuresti, Romania– poster presentation
- E29. **A. Robu\***, A. Antoniac, I. Antoniac, R. Ciocoiu, M. Albu, Composite materials based on collagen used as wound dressings - 10th International Conference on Materials Science and Technologies – RoMat 2024, Bucuresti, Romania– poster presentation
- E30. I. Spanu\*, I. Antoniac, **A. Robu**, A. Antoniac, R. Ciocoiu, Copper-based composite coating as an antimicrobial surface - 10th International Conference on Materials Science and Technologies – RoMat 2024, Bucuresti, Romania– poster presentation
- E31. Niculae Valeanu, Larisa Popescu, Aurora Antoniac, **Alina Robu\***, Dan Anusca, Influence of the bone cement and cementation technique on the performance of the Birmingham Hip Prosthesis - 10th International Conference on Materials Science and Technologies – RoMat 2024, Bucuresti, Romania– poster presentation
- E32. Gabriel Cristescu\*, Iulian Vasile Antoniac, **Alina Robu**, Curv, dyneema, kevlar and nomex: further enhancements for defense applications - 10th International Conference on Materials Science and Technologies – RoMat 2024, Bucuresti, Romania– poster presentation
- E33. Alexandru Streza, Iulian Antoniac, Aurora Antoniac, **Alina Robu**, Voicu Stefan, Robert Ciocoiu, coatings with the Mg-substituted hydroxyapatite on magnesium alloys - 10th International Conference on Materials Science and Technologies – RoMat 2024, Bucuresti, Romania– poster presentation
- E34. Ionel G. Tănase, M. Vasilescu\*, R. Ciocoiu, A. Streza, **A. Robu**, I. Antoniac, One-way valve in the helicopter hydraulic system obtained by 3d printing - 10th International Conference on Materials Science and Technologies – RoMat 2024, Bucuresti, Romania– poster presentation

**Data,**  
10.09.2024

**Semnătura,**  
Ș.l.dr.ing.ec. Alina Robu