

List of scientific papers, patents, and research contracts

I. DOCTORAL THESIS (T)

T 1. *Modificarea suprafețelor implantabile de titan cu structuri bioinspirate*, FICBi, domeniul de studii Inginerie Chimică, calificativul „Excelent”.

II. PUBLISHED ARTICLES / STUDIES (R, V)

Ris – ISI scientific international journals

Ris 1. Angela Gabriela OLARU, Valeria BUTCULESCU, Cristina DUMITRIU, Nicoleta BADEA, Simona POPESCU, Camelia UNGUREANU, Cristian PIRVU, Biopolymers as intermediate layers for amoxicillin grafting on antibacterial surface, *Surfaces and Interfaces*, Volume 33, article number 102224, **2022**, ISSN 2468-0230, WOS: 000838331800002, IF 2022: 6.2, <https://doi.org/10.1016/j.surfin.2022.102224>.

Ris 2. Angela Gabriela PĂUN, TiO₂ surfaces modification for amoxicillin release used in dental implantology, *U.P.B. Scientific Bulletin, Series B: Chemistry and Materials Science*, Volume 85, Issue2, Pages 71-84, **2023**, ISSN 1454-2331, WOS: 001015437100006, IF 2022: 0.5, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full72c_851321.pdf.

Ris 3. Angela Gabriela PĂUN, Cristina DUMITRIU, Camelia UNGUREANU, Simona POPESCU, Silk Fibroin/ZnO Coated TiO₂ Nanotubes for Improved Antimicrobial Effect of Ti Dental Implants, *Materials*, Volume 16, Issue 17, Page 5855, **2023**, ISSN 1996-1944, WOS: 001064130500001, IF 2022: 3.4, <https://doi.org/10.3390/ma16175855>.

Ris 4. Angela Gabriela PĂUN, Valeria PETRINA, Nicoleta BADEA, Camelia UNGUREANU, Simona POPESCU, Cristina DUMITRIU, Y-Branched Titanium Dioxide Nanotubes as a Potential Antimicrobial Coating for Implants, *Crystals*, Volume 13, Issue 12, Page 1695, **2023**, ISSN 2073-4352, WOS: 001130940200001, IF 2022: 2.7, <https://doi.org/10.3390/cryst13121695>.

Ris 5. Angela Gabriela PĂUN, Simona POPESCU, Camelia UNGUREANU, Roxana TRUSCA, Cristian PIRVU, Reduced TiO₂ Nanotubes/Silk Fibroin/ZnO as a Promising Hybrid Antibacterial Coating, *ChemPlusChem*, Volume 89, Issue 3, Page e202300450, **2024**, ISSN 2192-6506, WOS: 00110736620000, IF 2022: 3.4, doi.org/10.1002/cplu.202300450.

Ris 6. Angela Gabriela PĂUN, Cristina DUMITRIU, Nicoleta BADEA, Simona POPESCU, TiO₂ Nanostructured Surface Coatings For Tetracycline Release, *U.P.B. Scientific Bulletin, Series B: Chemistry and Materials Science*, Volume 60, Issue 2, Pages 19-34, **2024**, ISSN 1454-2331

Ris 7. Angela Gabriela PĂUN, Cristina DUMITRIU, Nicoleta BADEA, Cristian PIRVU, Bioinspired Coatings Based on Lipid nanocarriers for Targeted Drug Delivery, *U.P.B. Scientific Bulletin, Series B: Chemistry and Materials Science*, Vol. 86, Issue 3, Pages 29-48, **2024**, ISSN 1454-2331

Ris 8. Angela Gabriela PĂUN, ; Simona POPESCU, Alisa Ioana Ungureanu, Roxana Trusca, Alina Popp, Cristina Dumitriu, George-Octavian Buica. Anti-Tissue-Transglutaminase IgA Antibodies Presence Determination Using Electrochemical Square Wave Voltammetry and Modified Electrodes Based on Polypyrrole and Quantum Dots., *Biosensors* **2025**, *15*, 42. <https://doi.org/10.3390/bios15010042>

Rio – Other scientific journals (BDI indexed)

III. PATENTS / INNOVATIONS (B, A)

A - Innovations and other creations

A 1. Procedeu de modificare a suprafeței electrodului cu filme de polipirol și Quantum Dots din fibroină pentru depistarea rapidă a anticorpilor de boală celiacă, Registratura OSIM, număr A/00332, iunie 2024.

VI. RESEARCH CONTRACTS AND SCIENTIFIC REPORTS (P, F)

P – Research, development and innovation projects obtained through competition

P1. Pregătirea doctoranzilor și cercetătorilor poStdoctorat în vederea dobândirii de coMpetențe de cercetARE aplicaTiva – SMART, Contract de finanțare nr. 13530/16.06.2022, Cod SMIS: 153734, octombrie 2022-octombrie 2023, coautor

F1. 16th International Summer school on quality Assurance in a testing laboratory(ISO/IEC 17025), editia a avut loc in Cehia, Krtiny, in perioada 09 -22 iulie 2023, , în domeniul Measurement Science in Chemistry, Nr. 13509-23.

