***ANEXA 4.1***

Nume Prenume: **Barbu Lucian**

Gradul didactic: conferențiar

Instituția unde este titular: Universitatea Babeș-Bolyai

Facultatea: Biologie si Geologie

Departamentul: Biologie Moleculară și Biotehnologie

**LISTA**

**lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic**

1. **Teza de doctorat**

Contributii privind structura, ultrastructura si functiile corpusculului de glicogen

1. **Cărţi si capitole în cărţi publicate în ultimii 10 ani**

B1.

B2.

B3.

1. **Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

C1.

1. Targeting JAK/STAT3 in glioblastoma cells using an alginate-PNIPAm molecularly imprinted hydrogel for the sustained release of ruxolitinib Authors (8): Baraian, Alexandra-Iulia; Raduly, Lajos ... Bodoki, Ede Published: Apr 2025 in International Journal of Biological Macromolecules
2. DOI: 10.1016/J.IJBIOMAC.2025.140025 Accession Number: WOS:001407355600001
3. Identification of distinct profiles of glioblastoma through the immunocapture of extracellular vesicles from patient plasma Authors (8): Manu, Doina Ramona; Balasa, Rodica ... Balasa, Adrian Published: Mar 2025 in Plos One DOI: 10.1371/JOURNAL.PONE.0315890 Accession Number: WOS:001449697200030
4. Urban Traffic's Influence on Noise and Particulate Matter Pollution Authors (5): Avram, Simona Elena; Tudoran, Lucian Barbu ... Petean, Ioan Published: Mar 2025 in Sustainability DOI: 10.3390/SU17052077 Accession Number: WOS:001443472600001
5. Tobacco Residues Deposition at the Surface of Cobalt-Chromium Dental Alloys and the Effect of Cigarette Smoke Extract on Human Mesenchymal Stem Cells: An In Vitro Study Authors (11): Uriciuc, Willi-Andrei; Bosca, Bianca Adina ... Ilea, Aranka Published: Feb 2025 in Coatings DOI: 10.3390/COATINGS15030279 Accession Number: WOS:001451984100001
6. Preclinical pharmaco-toxicological screening of biomimetic melanin-like nanoparticles as a potential therapeutic strategy for cutaneous melanoma Authors (10): Marcovici, Iasmina; Chioibas, Raul ... Dehelean, Cristina Adriana Published: Feb 2025 in Frontiers in Pharmacology
7. DOI: 10.3389/FPHAR.2025.1487854 Accession Number: WOS:001425595600001
8. Sensitive Detection of Kynurenic Acid from Biological Fluids Using a Flexible Electrochemical Platform Based on Gold Nanoparticles and Reduced Graphene Oxide Authors (6): Macovei, Diana-Gabriela; Tertis, Mihaela ... Cristea, Cecilia Published: Feb 2025 in International Journal of Molecular Sciences DOI: 10.3390/IJMS26030913 Accession Number: WOS:001418592200001
9. Blue micro-/nanoplastics abundance in the environment: a double threat as a Trojan horse for a plastic-Cu-phthalocyanine pigment and an opportunity for nanoplastic detection via micro-Raman spectroscopy Authors (4): Cardan, Ioana; Nesterovschi, Ion ... Pinzaru, Simona Cinta Published: 2025 in Environmental Science: Nano DOI: 10.1039/D4EN00820K Accession Number: WOS:001432869400001
10. Nanoencapsulation of citrus essential oils in systematic modified chitosanbased nanofibers Authors (5): Ulici, Adelina Maria; Gaina-Gardiuta, Artiom ... Podea, Paula Veronica Published: Dec 2024 in Journal of Applied Polymer Science DOI: 10.1002/APP.56176 Accession Number: WOS:001321810100001
11. Mineral Powder Extraction by the Natural Drying of Water from the Public Springs in Borsec Authors (5): Avram, Simona Elena; Platon, Denisa Viviana ... Petean, Ioan Published: Dec 2024 in Applied Sciences DOI: 10.3390/APP142310806 Accession Number: WOS:001376244600001
12. Natural Fiber Reinforcement of Ceramic Slurry Compacts Authors (6): Avram, Simona Elena; Tudoran, Lucian Barbu ... Petean, Ioan Published: Dec 2024 in Journal of Composites Science DOI: 10.3390/JCS8120542 Accession Number: WOS:001386892900001
13. Astrocyte Dysfunction Reflected in Ischemia-Induced Astrocyte-Derived Extracellular Vesicles: A Pilot Study on Acute Ischemic Stroke Patients Authors (4): Forro, Timea; Manu, Doina Ramona ... Balasa, Rodica Published: Nov 2024 in International Journal of Molecular Sciences DOI: 10.3390/IJMS252212471 Accession Number: WOS:001365461000001
14. Investigating the Role of Microclimate and Microorganisms in the Deterioration of Stone Heritage: The Case of Rupestrian Church from Jac, Romania Authors (13): Ilies, Dorina Camelia; Apopei, Andrei-Ionut ... Noje, Ioan-Cristian Published: Sep 2024 in Applied Sciences DOI: 10.3390/APP14188136 Accession Number: WOS:001323463100001
15. Preserving Cultural Heritage: Enhancing Limestone Durability with Nano-TiO2 Coating Authors (14): Ilies, Dorina Camelia; Apopei, Andrei-Ionut ... Gligor, Emil-Traian Published: Sep 2024 in Heritage DOI: 10.3390/HERITAGE7090232 Accession Number: WOS:001326128400001
16. Biologically Synthesized Gold Nanoparticles with Enhanced Antioxidant and Catalytic Properties Authors (5): David, Melinda; Enache, Teodor A. ... Florescu, Monica Published: Sep 2024 in Pharmaceuticals DOI: 10.3390/PH17091105 Accession Number: WOS:001322890400001
17. Calcium Acetate Drug Produced from Rapana venosa Invasive Gastropod Shells: Green Process Control Assisted by Raman Technology Authors (6): Dumitru, Danut-Alexandru; Poplacean, Iuliana-Cornelia ... Pinzaru, Simona Cinta Published: Aug 2024 in ACS Omega DOI: 10.1021/ACSOMEGA.4C04138 Accession Number: WOS:001305387100001
18. Interaction of Low-Density Polyethylene Nanofragments with Autotrophic and Chemotrophic Bacteria Authors (16): Ciorita, Alexandra; Suciu, Maria ... **Barbu-Tudoran, Lucian** Published: Jul 2024 in ACS Sustainable Chemistry & Engineering DOI: 10.1021/ACSSUSCHEMENG.4C02440 Accession Number: WOS:001274476900001
19. Effect of Silver Vanadate Nanowires Addition on Structural and Morphological Properties of Dental Porcelain Prepared from Economic Raw Materials Authors (5): Sakhkhane, Badr Eddine; Muresan-Pop, Marieta ... Bizo, Liliana Published: Jul 2024 in Crystals DOI: 10.3390/CRYST14070616 Accession Number: WOS:001276535300001
20. Ultrastructure of the Bovine Testis in Cattle (Bos taurus): New View Authors (8): Michalek, Katarzyna; Grabowska, Marta ... Suciu, Maria Published: Jun 2024 in Animals DOI: 10.3390/ANI14121777 Accession Number: WOS:001254993100001
21. Label-free aptasensor targeting Staphylococcus aureus surface Protein A Authors (8): Canciu, Alexandra; Tataru, Ana -Maria ... Cristea, Cecilia Published: Jun 2024 in Microchemical Journal
22. DOI: 10.1016/J.MICROC.2024.110586 Accession Number: WOS:001232334500001
23. Raman Technology for Process Control: Waste Shell Demineralization for Producing Transparent Polymer Foils Reinforced with Natural Antioxidants and Calcium Acetate By-Products Authors (8): Pinzaru, Simona Cinta; Poplacean, Iuliana-Cornelia ... Neculai, Bogdan
24. Published: Apr 2024 in Processes DOI: 10.3390/PR12040832 Accession Number: WOS:001210418900001
25. Do the untreated surfaces of orthodontic mini-implants have osseointegration? Authors (9): Jiman (Termure), Paula; Baciut, Mihaela ... Baciut, Grigore Published: Apr 2024 in Romanian Journal of Oral Rehabilitation DOI: 10.6261/RJOR.2024.2.16.67 Accession Number: WOS:001250408000066
26. A Study of Hyaluronic Acid's Theoretical Reactivity and of Magnetic Nanoparticles Capped with Hyaluronic Acid Authors (6): Racuciu, Mihaela; Oancea, Simona ... Creanga, Dorina Published: Mar 2024 in Materials DOI: 10.3390/MA17061229 Accession Number: WOS:001192559800001
27. COVID-19-Associated Rhino-Orbital Mucormycosis: Histological and Electron Microscopy Characteristics Authors (13): Jeican, Ionut Isaia; Horhat, Delia Ioana ... Albu, Silviu Published: Feb 2024 in Diagnostics DOI: 10.3390/DIAGNOSTICS14040429 Accession Number: WOS:001172313200001
28. Pilot SERS Monitoring Study of Two Natural Hypersaline Lake Waters from a Balneary Resort during Winter-Months Period Authors (6): Molnar, Csilla; Drigla, Teodora Diana ... Cinta Pinzaru, Simona Published: Jan 2024 in Biosensors DOI: 10.3390/BIOS14010019 Accession Number: WOS:001149523900001
29. A new form of severe acute localized reactions following intra-articular hyaluronic acid injections in knee osteoarthritis. A case report Authors (6): Fodor, Daniela; Serban, Oana ... Badarinza, Maria Published: 2024 in Medical Ultrasonography DOI: 10.11152/MU-4415 Accession Number: WOS:001398309400011
30. Synthesis and characterization of cofe2o4 2 o 4 nanoparticles and cofe2o4@batio3 nanocomposites for biomedical applications Authors (5): Dudric, R.; Bortnic, R. ... Tetean, R. Published: 2024 in Romanian Journal in Physics DOI: 10.59277/ROMJPHYS.2024.69.611 Accession Number: WOS:001329051200015
31. Genome-wide transcriptional response to silver stress in extremely halophilic archaeon Haloferax alexandrinus DSM 27206 T Authors (5): Buda, Doriana Madalina; Szekeres, Edina ... Banciu, Horia Leonard Published: Dec 2023 in BMC Microbiology DOI: 10.1186/S12866-023-03133-Z
32. Accession Number: WOS:001113698700003
33. Phenolic profile of micro- and nano-encapsulated olive leaf extract in biscuits during in vitro gastrointestinal digestion Authors (12): Ciont, Calina; Difonzo, Graziana ... Vodnar, Dan Cristian
34. Published: Dec 2023 in Food Chemistry DOI: 10.1016/J.FOODCHEM.2023.136778 Accession Number: WOS:001040846000001
35. Facile Preparation of PVDF/CoFe2O4-ZnO Hybrid Membranes for Water Depollution Authors (6): Popa, Adriana; Stefan, Maria ... Toloman, Dana Published: Dec 2023 in Polymers DOI: 10.3390/POLYM15234547 Accession Number: WOS:001117609500001
36. Green Biocidal Nanotechnology Use for Urban Stone-Built Heritage-Case Study from Oradea, Romania Authors (14): Ilies, Dorina Camelia; Blaga, Lucian ... Hossain, Mallik Akram Published: Sep 2023 in Minerals DOI: 10.3390/MIN13091170 Accession Number: WOS:001075123800001
37. Deep eutectic solvent PCL-based nanofibers as drug delivery system Authors (5): Marincas, Laura; Farkas, Noemi-Izabella ... Tosa, Monica Ioana Published: Aug 2023 in Materials Chemistry and Physics DOI: 10.1016/J.MATCHEMPHYS.2023.127862 Accession Number: WOS:001001835200001
38. The effect of chemical composition and morphology on the drug delivery properties of hydroxyapatite-based biomaterials Authors (7): Farkas, Noemi-Izabella; Turdean, Graziella Liana ... Reka, Barabas Published: Aug 2023 in Ceramics International DOI: 10.1016/J.CERAMINT.2023.05.047 Accession Number: WOS:001025781100001
39. In Vitro Study of Composite Cements on Mesenchymal Stem Cells of Palatal Origin Authors (9): Ardelean, Alina Ioana; Dragomir, Madalina Florina ... Oana, Liviu Published: Jul 2023 in International Journal of Molecular Sciences DOI: 10.3390/IJMS241310911 Accession Number: WOS:001028320000001
40. Investigation of the Real-Time Release of Doxycycline from PLA-Based Nanofibers Authors (5): Farkas, Noemi-Izabella; Marincas, Laura ... Turdean, Graziella Liana Published: Jun 2023 in Journal of Functional Biomaterials DOI: 10.3390/JFB14060331 Accession Number: WOS:001017483400001
41. Sanguisorba minor Scop.: An Overview of Its Phytochemistry and Biological Effects Authors (7): Tocai (Motoc), Alexandra Cristina; Kokeric, Tijana ... Vicas, Simona Ioana Published: May 2023 in Plants DOI: 10.3390/PLANTS12112128 Accession Number: WOS:001002931500001
42. Gold vs. Silver Colloidal Nanoparticle Films for Optimized SERS Detection of Propranolol and Electrochemical-SERS Analyses Authors (11): Muntean, Cristina M.; Cuibus, Denisa ... Farcau, Cosmin Published: May 2023 in Biosensors DOI: 10.3390/BIOS13050530 Accession Number: WOS:000995664300001
43. Characterization of a Graphene Oxide-Reinforced Whey Hydrogel as an Eco-Friendly Absorbent for Food Packaging Authors (7): Lopes, Pompilia Mioara Purcea; Moldovan, Dumitrita ... Popescu, Violeta Published: Apr 2023 in Gels DOI: 10.3390/GELS9040298 Accession Number: WOS:000981008200001
44. Surface enhanced fluorescence potential of ZnO nanoparticles and gold decorated ZnO nanostructures embedded in a polyvinyl alcohol matrix Authors (7): Falamas, A.; Marica, I. ... Farcau, C. Published: Apr 2023 in Journal of Photochemistry and Photobiology A: Chemistry DOI: 10.1016/J.JPHOTOCHEM.2022.114516 Accession Number: WOS:000995301000001
45. In Vitro Degradation of Mg-Doped ZrO2 Bioceramics at the Interface with Xerostom® Saliva Substitute Gel Authors (5): Bizo, Liliana; Muresan-Pop, Marieta ... Berar, Antonela Published: Apr 2023 in Materials DOI: 10.3390/MA16072680 Accession Number: WOS:000970048800001
46. Material Evidence of Sediments Recovered from Ancient Amphorae Found at the Potaissa Roman Fortress Authors (11): Farcas, Iulia Alexandra; Dippong, Thomas ... Bunea, Claudiu Ioan
47. Published: Apr 2023 in Materials DOI: 10.3390/MA16072628 Accession Number: WOS:000970058500001
48. pH-Dependent Behavior of Novel 5-FU Delivery System in Environmental Conditions Comparable to the Gastro-Intestinal Tract Authors (7): Lazar, Geza; Nekvapil, Fran ... Cinta Pinzaru, Simona Published: Mar 2023 in Pharmaceutics DOI: 10.3390/PHARMACEUTICS15031011 Accession Number: WOS:000956967800001
49. Cave Thiovulum (Candidatus Thiovulum stygium) differs metabolically and genomically from marine species Authors (15): Bizic, Mina; Brad, Traian ... Sarbu, Serban M. Published: Mar 2023 in The ISME Journal DOI: 10.1038/S41396-022-01350-4 Accession Number: WOS:000900070100001
50. A paracetamol-poly(3,4-ethylenedioxythiophene) composite film for drug release studies Authors (4): Viteri, Juan Hidalgo; Cotolan, Nicoleta ... Turdean, Graziella Liana Published: Mar 2023 in Materials Today Communications DOI: 10.1016/J.MTCOMM.2022.105084 Accession Number: WOS:001018863800001
51. Photocatalytic Self-Cleaning PVDF Membrane Blended with MWCNT-ZnO Nanocomposites for RhB Removal Authors (5): Toloman, Dana; Stefan, Maria ... Popa, Adriana Published: Mar 2023 in Coatings DOI: 10.3390/COATINGS13030594 Accession Number: WOS:000958747400001
52. New fluorescent electrospun polymer materials containing phenothiazinyl carboxylate metal salts for versatile latent fingerprint detection Authors (9): Gal, Melinda; Cristea, Castelia ... Gaina, Luiza Ioana Published: Mar 2023 in Dyes and Pigments DOI: 10.1016/J.DYEPIG.2023.111085
53. Accession Number: WOS:000994898000001
54. A Local Desiccant Antimicrobial Agent as an Alternative to Adjunctive Antibiotics in the Treatment of Periodontitis: A Narrative Review Authors (10): Micu, Iulia C.; Muntean, Alexandrina ... Delean, Ada G. Published: Mar 2023 in Antibiotics DOI: 10.3390/ANTIBIOTICS12030456 Accession Number: WOS:000953214500001
55. Ruxolitinib-Loaded Imprinted Polymeric Drug Reservoir for the Local Management of Post-Surgical Residual Glioblastoma Cells Authors (8): Baraian, Alexandra-Iulia; Iacob, Bogdan-Cezar ... Bodoki, Ede Published: Feb 2023 in Polymers DOI: 10.3390/POLYM15040965 Accession Number: WOS:000941649500001
56. In Vitro and In Vivo Characterisation of a Mucoadhesive Buccal Film Loaded with Doxycycline Hyclate for Topical Application in Periodontitis Authors (15): Dinte, Elena; Muntean, Dana Maria ... Ilea, Aranka Published: Feb 2023 in Pharmaceutics DOI: 10.3390/PHARMACEUTICS15020580 Accession Number: WOS:000941657000001
57. Modification of Cotton and Leather Surfaces Using Cold Atmospheric Pressure Plasma and TiO2-SiO2-Reduced Graphene Oxide Nanopowders Authors (9): Cosma, Dragos-Viorel; Tudoran, Cristian ... Stanculescu, Ioana Published: Feb 2023 in Materials DOI: 10.3390/MA16041397 Accession Number: WOS:000941575000001
58. Spray pyrolysis-assisted fabrication of Eu-doped ZnO thin films for antibacterial activities under visible light irradiation Authors (13): Ech-Chergui, Abdelkader Nebatti; Kadari, Ali Sadek ... Amrani, Bouhalouane Published: Feb 2023 in Chemical Papers-chemicke Zvesti DOI: 10.1007/S11696-022-02543-Z Accession Number: WOS:000869625800002
59. The Antimelanoma Biological Assessment of Triterpenic Acid Functionalized Gold Nanoparticles Authors (10): Mioc, Marius; Mioc, Alexandra ... Soica, Codruta Published: Jan 2023 in Molecules DOI: 10.3390/MOLECULES28010421 Accession Number: WOS:000908874600001
60. The Biological Activity of Fragmented Computer-Aided Design/Manufacturing Dental Materials before and after Exposure to Acidic Environment Authors (6): Ille, Codruta Eliza; Moaca, Elena-Alina ... Jivanescu, Anca Published: Jan 2023 in Medicina DOI: 10.3390/MEDICINA59010104
61. Accession Number: WOS:000927539900001
62. Biologic Impact of Green Synthetized Magnetic Iron Oxide Nanoparticles on Two Different Lung Tumorigenic Monolayers and a 3D Normal Bronchial Model-EpiAirway™ Microtissue Authors (11): Moaca, Elena-Alina; Watz, Claudia ... Dehelean, Cristina Adriana Published: Jan 2023 in Pharmaceutics DOI: 10.3390/PHARMACEUTICS15010002 Accession Number: WOS:000918975700001
63. Secretory structures in artemisia abrotanum l. (Asteraceae) Authors (3): Tamas, Mircea; Barbu-Tudoran, Lucian; Coste, Ana Published: 2023 in Contributii Botanice DOI: 10.24193/CONTRIB.BOT.58.2 Accession Number: BCI:BCI202400251993
64. Investigation of ferrous conglomerate particles found in carwash slurry and their environmental implications Authors (5): Avram, Simona Elena; Filip, Miuta Rafila ... Petean, Ioan Published: 2023 in Studia Chemia DOI: 10.24193/SUBBCHEM.2023.4.05 Accession Number: WOS:001163865500005
65. Tracking soil particle deposition using bio-indication evidence and nondestructive FESEM and EDS analyses: A preliminary (pilot) study Authors (5): Balabanova, Biljana; Boev, Ivan ... Suciu, Maria Published: 2023 in Macedonian Journal of Ecology and Environment DOI: 10.59194/MJEE23252135B Accession Number: BCI:BCI202400196052
66. Trojan horse treatment based on PEG-coated extracellular vesicles to deliver doxorubicin to melanoma in vitro and in vivo Authors (19): Patras, Laura; Ionescu, Aura Elena ... Banciu, Manuela Published: Dec 2022 in Cancer Biology & Therapy DOI: 10.1080/15384047.2021.2003656 Accession Number: WOS:000735812200001
67. Characterization and In Vitro Biocompatibility of Two New Bioglasses for Application in Dental Medicine-A Preliminary Study Authors (10): Clichici, Andra; Filip, Gabriela Adriana ... Stefan, Razvan Published: Dec 2022 in Materials DOI: 10.3390/MA15249060 Accession Number: WOS:000902946400001
68. Maslinic Acid Derivative Nanoemulsion: Physicochemical Characterization, Antimicrobial Activity and Three-Dimensional (3D) Reconstructed Human Epidermal Model Screening Authors (12): Magyari-Pavel, I. Z.; Vlaia, L. ... Danciu, C. Published: Dec 2022 in Planta Medica
69. Accession Number: WOS:000921330500465
70. Mechanical Properties of Orthodontic Cements and Their Behavior in Acidic Environments Authors (11): Iosif, Cristina; Cuc, Stanca ... Chifor, Radu Published: Nov 2022 in Materials DOI: 10.3390/MA15227904 Accession Number: WOS:000887389900001
71. The Anti-Melanoma Effect of Betulinic Acid Functionalized Gold Nanoparticles: A Mechanistic In Vitro Approach Authors (12): Ghiulai, Roxana; Mioc, Alexandra ... Soica, Codruta Published: Nov 2022 in Pharmaceuticals DOI: 10.3390/PH15111362 Accession Number: WOS:000895221200001
72. Low-Molecular-Weight Heparins (LMWH) and Synthetic Factor X Inhibitors Can Impair the Osseointegration Process of a Titanium Implant in an Interventional Animal Study Authors (12): Apostu, Dragos; Berechet, Bianca ... Piciu, Doina Published: Nov 2022 in Medicina DOI: 10.3390/MEDICINA58111590 Accession Number: WOS:000912449300001
73. Synthesis and Characterization of Bioactive Magnetic Nanoparticles from the Perspective of Hyperthermia Applications Authors (13): Elena-Alina, Moaca; Socoliuc, Vlad ... Dehelean, Cristina Adriana Published: Nov 2022 in Magnetochemistry DOI: 10.3390/MAGNETOCHEMISTRY8110145 Accession Number: WOS:000895235100001
74. Circulating Small EVs miRNAs as Predictors of Pathological Response to Neo- Adjuvant Therapy in Breast Cancer Patients Authors (14): Baldasici, Oana; Balacescu, Loredana ... Balacescu, Ovidiu Published: Oct 2022 in International Journal of Molecular Sciences DOI: 10.3390/IJMS232012625 Accession Number: WOS:000873309700001
75. The Effect of Repeated Restraint Stress on Neuroglobin-Oligodendrocytes Functions in the CA3 Hippocampal Area and Their Involvements in the Signaling Pathways of the Stress-Induced Anxiety Authors (8): Toma, Vlad-Alexandru; Dume, Bogdan ... Sevastre-Berghian, Alexandra-Cristina Published: Sep 2022 in Applied Sciences DOI: 10.3390/APP12178680 Accession Number: WOS:000850949800001
76. The effect of 100-200 nm ZnO and TiO2 nanoparticles on the in vitro-grown soybean plants Authors (18): Leopold, Loredana F.; Coman, Cristina ... Coman, Vasile Published: Aug 2022 in Colloids and Surfaces B: Biointerfaces DOI: 10.1016/J.COLSURFB.2022.112536 Accession Number: WOS:000804114600001
77. Green Synthesis of Silver Nanoparticles Using Populi gemmae Extract: Preparation, Physicochemical Characterization, Antimicrobial Potential and In Vitro Antiproliferative Assessment Authors (11): Kis, Brigitta; Moaca, Elena-Alina ... Danciu, Corina Published: Jul 2022 in Materials DOI: 10.3390/MA15145006 Accession Number: WOS:000831503200001
78. A Fast, Reliable Oil-In-Water Microemulsion Procedure for Silica Coating of Ferromagnetic Zn Ferrite Nanoparticles Capable of Inducing Cancer Cell Death In Vitro Authors (9): Nitica, Stefan; Fizesan, Ionel ... Iacovita, Cristian Published: Jul 2022 in Biomedicines DOI: 10.3390/BIOMEDICINES10071647 Accession Number: WOS:000833230100001
79. Interdisciplinary Research to Advance Digital Imagery and Natural Compounds for Eco-Cleaning and for Preserving Textile Cultural Heritage Authors (13): Ilies, Dorina Camelia; Zlatev, Zlatin ... **Lucian, Barbu-Tudoran** Published: Jun 2022 in Sensors DOI: 10.3390/S22124442 Accession Number: WOS:000817466900001
80. Biosynthesis of Iron Oxide Nanoparticles: Physico-Chemical Characterization and Their In Vitro Cytotoxicity on Healthy and Tumorigenic Cell Lines Authors (12): Moaca, Elena-Alina; Watz, Claudia Geanina ... Dehelean, Cristina Adriana Published: Jun 2022 in Nanomaterials DOI: 10.3390/NANO12122012 Accession Number: WOS:000816457500001
81. Comparative screening the life-time composition and crystallinity variation in gilthead seabream otoliths Sparus aurata from different marine environments Authors (12): Lazar, Geza; Nekvapil, Fran ... Cinta Pinzaru, Simona Published: Jun 2022 in Scientific Reports DOI: 10.1038/S41598-022-13667-3 Accession Number: WOS:000809441100022
82. Study on the Surface of Cobalt-Chromium Dental Alloys and Their Behavior in Oral Cavity as Cast Materials Authors (12): Uriciuc, Willi Andrei; Bosca, Adina Bianca ... Ilea, Aranka Published: May 2022 in Materials DOI: 10.3390/MA15093052 Accession Number: WOS:000795395100001
83. Aspartic Acid Stabilized Iron Oxide Nanoparticles for Biomedical Applications Authors (8): Racuciu, Mihaela; Barbu-Tudoran, Lucian ... Creanga, Dorina E. Published: Apr 2022 in Nanomaterials DOI: 10.3390/NANO12071151 Accession Number: WOS:000781836600001
84. Antimicrobial activity of graphene oxide-coated polypropylene surfaces Authors (10): Pop, Lucian Cristian; Barta, Gabriel ... Danciu, Virginia Published: Mar 2022 in Studia Chemia DOI: 10.24193/SUBBCHEM.2022.1.18 Accession Number: WOS:000776596900018
85. Preparation and Characterization of Doxycycline-Loaded Electrospun PLA/HAP Nanofibers as a Drug Delivery System Authors (9): Farkas, Noemi-Izabella; Marincas, Laura ... **Barbu-Tudoran, Lucian** Published: Mar 2022 in Materials DOI: 10.3390/MA15062105 Accession Number: WOS:000775035000001
86. 3D Printed Metal Oxide-Polymer Composite Materials for Antifouling Applications Authors (17): Bouranta, Andrianna; Tudose, Ioan Valentin ... Koudoumas, Emmanouel Published: Mar 2022 in Nanomaterials DOI: 10.3390/NANO12060917 Accession Number: WOS:000774571000001
87. Synthesis and Structural Characterization of CaO-P2O5-CaF:CuO Glasses with Antitumoral Effect on Skin Cancer Cells Authors (7): Vedeanu, Nicoleta Simona; Lujerdean, Cristian ... Stefan, Razvan Published: Feb 2022 in Materials DOI: 10.3390/MA15041526 Accession Number: WOS:000765082200001
88. Non-invasive laparoscopic detection of small tumors of the digestive tract using inductive sensors of proximity Authors (15): Calborean, Adrian; Macavei, Sergiu ... Bintintan, Vasile Published: Jan 2022 in Scientific Reports DOI: 10.1038/S41598-022-04822-X Accession Number: WOS:000742753500024
89. Design, in vitro bioactivity and in vivo influence on oxidative stress and matrix metalloproteinases of bioglasses in experimental skin wound Authors (14): Filip, Gabriela Adriana; Achim, Marcela ... Stefan, Razvan Published: Dec 2021 in Journal of Trace Elements in Medicine and Biology DOI: 10.1016/J.JTEMB.2021.126846 Accession Number: WOS:000702858200008
90. Hybrid PVDF-P(L-DOPA)-ZnO membranes for dyes and antibiotics removal through simultaneous action of adsorption and photocatalysis processes Authors (10): Popa, Adriana; Toloman, Dana ... Pana, Ovidiu Published: Dec 2021 in Journal of Environmental Chemical Engineering DOI: 10.1016/J.JECE.2021.106812 Accession Number: WOS:000725667000008
91. Silica Coating of Ferromagnetic Iron Oxide Magnetic Nanoparticles Significantly Enhances Their Hyperthermia Performances for Efficiently Inducing Cancer Cells Death In Vitro Authors (12): Iacovita, Cristian; Fizesan, Ionel ... Lucaciu, Constantin Mihai Published: Dec 2021 in Pharmaceutics DOI: 10.3390/PHARMACEUTICS13122026 Accession Number: WOS:000741822700001
92. Toxicological Profile of Biological Environment of Two Elastodontic Devices Authors (11): Dinu, Stefania; Buzatu, Roxana ... Pricop, Marius Published: Dec 2021 in Processes DOI: 10.3390/PR9122116 Accession Number: WOS:000737340600001
93. Development and characterization of magnetic iron oxide nanoparticles using microwave for the combustion reaction ignition, as possible candidates for biomedical applications Authors (6): Capraru, Aylin; Moaca, Elena-Alina ... **Barbu-Tudoran, Lucian** Published: Dec 2021 in Powder Technology DOI: 10.1016/J.POWTEC.2021.08.093 Accession Number: WOS:000709485300001
94. The adhesion of L-methionine amino acid through Dip Pen Nanolithography on silver thin films grown by Molecular Beam Epitaxy technique Authors (7): Calborean, Adrian; Colnita, Alia ... Marconi, Daniel Published: Nov 2021 in Journal of Molecular Structure DOI: 10.1016/J.MOLSTRUC.2021.131247 Accession Number: WOS:000702875600009
95. Polydopamine-Assisted Surface Modification of Ti-6Al-4V Alloy with Anti-Biofilm Activity for Dental Implantology Applications Authors (12): Marinas, Ioana Cristina; Tihauan, Bianca Maria ... Filip, Claudiu Published: Nov 2021 in Coatings DOI: 10.3390/COATINGS11111385 Accession Number: WOS:000727869100001
96. Biomimetic Composite Coatings for Activation of Titanium Implant Surfaces: Methodological Approach and In Vivo Enhanced Osseointegration Authors (8): Oltean-Dan, Daniel; Dogaru, Gabriela-Bombonica ... Tomoaia, Gheorghe Published: Nov 2021 in Micromachines DOI: 10.3390/MI12111352 Accession Number: WOS:000725796100001
97. Rapid and Application-Tailored Assessment Tool for Biogenic Powders from Crustacean Shell Waste: Fourier Transform-Infrared Spectroscopy Complemented with X-ray Diffraction, Scanning Electron Microscopy, and Nuclear Magnetic Resonance Spectroscopy Authors (11): Ogresta, Lovro; Nekvapil, Fran ... Pinzaru, Simona Cinta Published: Oct 2021 in ACS Omega DOI: 10.1021/ACSOMEGA.1C03279 Accession Number: WOS:000711728500018
98. Novel Drug Carrier: 5-Fluorouracil Formulation in Nanoporous Biogenic Mgcalcite from Blue Crab Shells-Proof of Concept Authors (7): Lazar, Geza; Nekvapil, Fran ... Pinzaru, Simona Cinta
99. Published: Oct 2021 in ACS Omega DOI: 10.1021/ACSOMEGA.1C03285 Accession Number: WOS:000711728500019
100. Microbiological, Health and Comfort Aspects of Indoor Air Quality in a Romanian Historical Wooden Church Authors (17): Marcu, Florin; Hodor, Nicolaie ... Safarov, Bahodirhon Published: Sep 2021 in International Journal of Environmental Research and Public Health DOI: 10.3390/IJERPH18189908 Accession Number: WOS:000700718500001
101. Respiratory Nasal Mucosa in Chronic Rhinosinusitis with Nasal Polyps versus COVID-19: Histopathology, Electron Microscopy Analysis and Assessing of Tissue Interleukin-33 Authors (18): Jeican, Ionut Isaia; Gheban, Dan ... Junie, Lia Monica Published: Sep 2021 in Journal of Clinical Medicine DOI: 10.3390/JCM10184110 Accession Number: WOS:000699672300001
102. Cytotoxic Effects on Gingival Mesenchymal Stromal Cells and Root Surface Modifications Induced by Some Local Antimicrobial Products Used in Periodontitis Treatment Authors (10): Lupse, Irina; Pall, Emoke ... Soanca, Andrada Published: Sep 2021 in Materials DOI: 10.3390/MA14175049 Accession Number: WOS:000694328900001
103. In Vivo Distribution of Poly(ethylene glycol) Functionalized Iron Oxide Nanoclusters: An Ultrastructural Study Authors (10): Suciu, Maria; Mirescu, Claudiu ... **Barbu-Tudoran, Lucian** Published: Sep 2021 in Nanomaterials DOI: 10.3390/NANO11092184 Accession Number: WOS:000701412400001
104. Evidence of SARS-CoV-2 Virus in the Middle Ear of Deceased COVID-19 Patients Authors (14): Jeican, Ionut Isaia; Aluas, Maria ... Junie, Lia Monica Published: Sep 2021 in Diagnostics
105. DOI: 10.3390/DIAGNOSTICS11091535 Accession Number: WOS:000699386000001
106. Investigations of the Surface of Heritage Objects and Green Bioremediation: Case Study of Artefacts from Maramures, Romania Authors (10): Ilies, Dorina Camelia; Hodor, Nicolaie ... Grama, Vasile Published: Jul 2021 in Applied Sciences DOI: 10.3390/APP11146643 Accession Number: WOS:000675911500001
107. Stochastic biosensors based on N- and S-doped graphene for the enantioanalysis of aspartic acid in biological samples Authors (5): Stefan-van Staden, Raluca-Ioana; Gheorghe, Damaris-Cristina ... Pruneanu, Stela Maria Published: Jul 2021 in RSC Advances DOI: 10.1039/D1RA02066H Accession Number: WOS:000671447100013
108. Morphological and Micromorphological Description of the Larvae of Two Endemic Species of Duvalius (Coleoptera, Carabidae, Trechini) Authors (3): Sitar, Cristian; Barbu-Tudoran, Lucian; Moldovan, Oana Teodora Published: Jul 2021 in Biology DOI: 10.3390/BIOLOGY10070627
109. Accession Number: WOS:000675951200001
110. Development and Characterization of Fe3O4@Carbon Nanoparticles and Their Biological Screening Related to Oral Administration Authors (13): Pop, Daniel; Buzatu, Roxana ... Jivanescu, Anca Published: Jul 2021 in Materials DOI: 10.3390/MA14133556 Accession Number: WOS:000671044500001
111. Marginal Adaptation Assessment for Two Composite Layering Techniques Using Dye Penetration, AFM, SEM and FTIR: An In-Vitro Comparative Study Authors (11): Chisnoiu, Andrea Maria; Moldovan, Marioara ... Pastrav, Mihaela Published: Jun 2021 in Applied Sciences
112. DOI: 10.3390/APP11125657 Accession Number: WOS:000666013500001
113. Visible-light-driven photocatalytic degradation of different organic pollutants using Cu doped ZnO-MWCNT nanocomposites Authors (15): Toloman, Dana; Popa, Adriana ... Pana, Ovidiu
114. Published: Jun 2021 in Journal of Alloys and Compounds DOI: 10.1016/J.JALLCOM.2021.159010 Accession Number: WOS:000630241800060
115. Single-cell Raman micro-spectroscopy for tracking of carotenoids in cyanobacteria exposed to Mn and Zn doped ferrite nanoparticles Authors (4): Nekvapil, Fran; Bunge, Alexander ... Pinzaru, Simona Cinta Published: Jun 2021 in Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy DOI: 10.1016/J.SAA.2021.119607 Accession Number: WOS:000639679500002
116. Graphene-Gold Nanoparticles Nanozyme-Based Electrochemical Sensor with Enhanced Laccase-Like Activity for Determination of Phenolic Substrates Authors (7): Gugoasa, Livia Alexandra Dinu; Pogacean, Florina ... Pruneanu, Stela Published: Jun 2021 in Journal of the Electrochemical Society DOI: 10.1149/1945-7111/AC0C32 Accession Number: WOS:000669980000001
117. Synthesis and characterization of Fe3O4?ZnS:Mn nanocomposites for biomedical applications
118. Authors (10): Stefan, Maria; Leostean, Cristian ... **Barbu-Tudoran, Lucian** Published: May 2021 in Materials Chemistry and Physics DOI: 10.1016/J.MATCHEMPHYS.2021.124474 Accession Number: WOS:000634769200001
119. Biocompatible Magnetic Colloidal Suspension Used as a Tool for Localized Hyperthermia in Human Breast Adenocarcinoma Cells: Physicochemical Analysis and Complex In Vitro Biological Profile Authors (12): Moaca, Elena-Alina; Watz, Claudia-Geanina ... Dehelean, Cristina-Adriana Published: May 2021 in Nanomaterials DOI: 10.3390/NANO11051189 Accession Number: WOS:000657018800001
120. Synthesis and characterization of Fe@FePt@SiO2@NH2 nanoplatform for amino acids recognition Authors (8): Stegarescu, Adina; Gutoiu, Simona ... Soran, Maria-Loredana Published: Apr 2021 in Journal of Nanoparticle Research DOI: 10.1007/S11051-021-05197-2 Accession Number: WOS:000638864800001
121. Promoting hidden natural design templates in wasted shells of the mantis shrimp into valuable biogenic composite Authors (6): Nekvapil, Fran; Glamuzina, Branko ... Pinzaru, Simona Cinta Published: Apr 2021 in Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
122. DOI: 10.1016/J.SAA.2020.119223 Accession Number: WOS:000620630600008
123. Adhesion of Flowable Resin Composites in Simulated Wedge-Shaped Cervical Lesions: An In Vitro Pilot Study Authors (10): Banut Onet, Diana; Barbu Tudoran, Lucian ... Soanca, Andrada
124. Published: Apr 2021 in Applied Sciences DOI: 10.3390/APP11073173 Accession Number: WOS:000638368000001
125. Tailoring the RhB removal rate by modifying the PVDF membrane surface through ZnO particles deposition Authors (11): Popa, Adriana; Toloman, Dana ... Pana, Ovidiu Published: Apr 2021 in Journal of Inorganic and Organometallic Polymers and Materials DOI: 10.1007/S10904-020-01795-0 Accession Number: WOS:000582313000001
126. The Morphological and Anatomical Traits of the Leaf in Representative Vinca Species Observed on Indoor- and Outdoor-Grown Plants Authors (7): Ciorita, Alexandra; Tripon, Septimiu Cassian ... Parvu, Marcel Published: Apr 2021 in Plants DOI: 10.3390/PLANTS10040622 Accession Number: WOS:000643517700001
127. Inside Pandora's box: Development of the lethal myrmecopathogenic fungus Pandora formicae within its ant host Authors (4): Csata, Eniko; Billen, Johan ... Marko, Balint Published: Apr 2021 in Fungal Ecology DOI: 10.1016/J.FUNECO.2020.101022 Accession Number: WOS:000624372000004
128. Electrochemical platform for the detection of adenosine using a sandwich - structured molecularly imprinted polymer-based sensor (vol 354, 136656, 2020) Authors (7): Gliga, Laura-Elena; Iacob, Bogdan-Cezar ... Oprean, Radu Published: Jan 2021 in Electrochimica Acta DOI: 10.1016/J.ELECTACTA.2020.137572 Accession Number: WOS:000607619900005
129. Chronic Rhinosinusitis: MALDI-TOF Mass Spectrometry Microbiological Diagnosis and Electron Microscopy Analysis; Experience of the 2nd Otorhinolaryngology Clinic of Cluj-Napoca, Romania Authors (10): Jeican, Ionut Isaia; Tudoran, Lucian Barbu ... Albu, Silviu Published: Dec 2020 in Journal of Clinical Medicine DOI: 10.3390/JCM9123973 Accession Number: WOS:000602100700001
130. Laparoscopic compatible device incorporating inductive proximity sensors for precise detection of gastric and colorectal small tumors Authors (15): Calborean, Adrian; Macavei, Sergiu ... Bintintan, Vasile Published: Dec 2020 in Surgical Oncology DOI: 10.1016/J.SURONC.2020.10.012 Accession Number: WOS:000600212300011
131. Sequential aqueous two-phase system for simultaneous purification of cyanobacterial phycobiliproteins Authors (7): Porav, Alin Sebastian; Bocaneala, Maricel ... Dragos, Nicolae Published: Nov 2020 in Bioresource Technology DOI: 10.1016/J.BIORTECH.2020.123794 Accession Number: WOS:000560718600017
132. Electrochemical platform for the detection of adenosine using a sandwich-structured molecularly imprinted polymer-based sensor Authors (7): Gliga, Laura-Elena; Iacob, Bogdan-Cezar ... Oprean, Radu Published: Sep 2020 in Electrochimica Acta DOI: 10.1016/J.ELECTACTA.2020.136656 Accession Number: WOS:000569142000002
133. Applications of superparamagnetic iron oxide nanoparticles in drug and therapeutic delivery, and biotechnological advancements Authors (7): Suciu, Maria; Ionescu, Corina M. ... **Barbu-Tudoran, Lucian** Published: Jul 2020 in Beilstein Journal of Nanotechnology DOI: 10.3762/BJNANO.11.94 Accession Number: WOS:000552994900001
134. Screen-printed electrodes made on stone paper substrate for uric acid electrochemical detection Authors (5): Varodi, Codruta; Pogacean, Florina ... Pruneanu, Stela Published: Jun 2020 in Studia Chemia DOI: 10.24193/SUBBCHEM.2020.2.19 Accession Number: WOS:000560027700019
135. Stone Paper as a New Substrate to Fabricate Flexible Screen-Printed Electrodes for the Electrochemical Detection of Dopamine Authors (8): Varodi, Codruta; Pogacean, Florina ... Pruneanu, Stela Published: Jun 2020 in Sensors DOI: 10.3390/S20123609 Accession Number: WOS:000553066800001
136. A species on the rise in Europe: Sinodiaptomus sarsi (Rylov, 1923) (Copepoda, Calanoida), a new record for the Romanian crustacean fauna Authors (4): Battes, Karina P.; Vancsa, Eva ... Cimpean, Mirela Published: Jun 2020 in BioInvasions Records DOI: 10.3391/BIR.2020.9.2.17
137. Accession Number: WOS:000531866100017
138. Biomimetic electrochemical sensor for the highly selective detection of azithromycin in biological samples Authors (8): Stoian, Ioan-Adrian; Iacob, Bogdan-Cezar ... Oprean, Radu Published: May 2020 in Biosensors and Bioelectronics DOI: 10.1016/J.BIOS.2020.112098 Accession Number: WOS:000523556800007
139. Structural, morphological and dissolution properties of zro2- based biocomposites for dental applications Authors (6): Bizo, Liliana; Sabo, Klara ... Berar, Antonela Published: Mar 2020 in Studia Chemia DOI: 10.24193/SUBBCHEM.2020.1.11 Accession Number: WOS:000526912600012
140. Multi-analyses of gallstones and correlation between their properties with the laboratory results
141. Authors (10): Peter, Anca; Cozmuta, Leonard Mihaly ... Pop, Flaviu Gheorghe Published: Mar 2020 in Analytical Biochemistry DOI: 10.1016/J.AB.2020.113587 Accession Number: WOS:000523601000012
142. Color-specific porosity in double pigmented natural 3d-nanoarchitectures of blue crab shell Authors (7): Nekvapil, Fran; Pinzaru, Simona Cinta ... Chis, Vasile Published: Feb 2020 in Scientific Reports DOI: 10.1038/S41598-020-60031-4 Accession Number: WOS:000563079900003

C2

C3

1. **Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi**

 **(neindexate)**

**- Reviste**

D1.

**- Selecţie cu maximum 20 lucrări în volume de conferinţe**

1.

* 1. **Brevete obţinute în întreaga activitate**

E1.

 **Data: 01.07.2025 Semnătura:**

E – Brevete (pentru întreaga activitate)