MEMORIU ȘTIINȚIFIC

Drd. Radulescu Denisa-Maria

Studii de doctorat

Perioada: 2020-2025

Conducător științific: Prof. Dr. Ing. Andronescu Ecaterima

Domeniu: Inginerie Chimică / ~~Chimie / Ingineria Mediului~~

Titlul tezei de doctorat: Green Metal Oxide Nanoparticles With Silk Fibroin for Soft Tissue Engineering

Activitate științifică (se vor lăsa doar cele care se aplică)

A. Lista de lucrări științifice (articole în reviste sau volume)

1. **Radulescu, D.-M**.; Neacsu, I.A.; Grumezescu, A.-M.; Andronescu, E. New Insights of Scaffolds Based on Hydrogels in Tissue Engineering. Polymers 2022, 14, 799. https://doi.org/10.3390/polym14040799.

   Q1, I.F. = 5

2. **Radulescu, D.-M.;** Surdu, V.-A.; Ficai, A.; Ficai, D.; Grumezescu, A.-M.; Andronescu, E. Green Synthesis of Metal and Metal Oxide Nanoparticles: A Review of the Principles and Biomedical Applications. Int. J. Mol. Sci. 2023, 24, 15397. https://doi.org/10.3390/ijms242015397.

   Q2, I.F. = 4.9

3. **Radulescu, D. M**., Andronescu, E., Vasile, O. R., Ficai, A., Vasile, B. S. Silk fibroin-based scaffolds for wound healing applications with metal oxide nanoparticles. Journal of Drug Delivery Science and Technology, 2024, 96, 105689. https://doi.org/10.1016/j.jddst.2024.105689

   Q1, I.F. = 4.9

4. **Radulescu, D.-M**., Neascu I.A., Vasile B.S., Surdu V.-A., Andronescu E. Green Synthesis of Copper, Zinc, and Magnesium Oxide Nanoparticles Using Orange Peel Extract. U.P.B. Sci. Bull., 2025, Series B, Vol. 87, Iss. 3.

   Q4, I.F. = 0.3

5. **Radulescu, D.-M**., Vasile B.S., Surdu V.-A;Trusca R.-D.; Ilie C.-I.; Popescu R.C., Andronescu E.; Drumea V.; Ditu L.-M. Antimicrobial chitosan-silk fibroin scaffolds with green-synthesized metal oxide nanoparticles. Journal of Drug Delivery Science and Technology, 2025, 114, 107463. https://doi.org/10.1016/j.jddst.2025.107463

   Q1, I.F. = 4.9

6. **Radulescu, D.-M.;** Neacsu, I.A.; Vasile, B.S.; Surdu, V.-A.; Oprea, O.-C.; Trusca, R.-D.; Chircov, C.; Popescu, R.C.; Ilie, C.-I.; Ditu, L.-M.; et al. Orange Peel-Mediated Green Synthesis of ZnO and CuO Nanoparticles: Evaluation for Antimicrobial Activity and Biocompatibility in Tissue Engineering. Int. J. Mol. Sci. 2025, 26, 8781. https://doi.org/10.3390/ijms26188781

   Q1, I.F. = 4.9

7. **Radulescu, D.-M.;** Neacsu, I.A.; Vasile, B.S.; Surdu, V.-A.; Oprea, O.-C.; Trusca, R.-D.; Chircov, C.; Popescu, R.C.; Ilie, C.-I.; Ditu, L.-M.; et al. Green Synthetized Biocompatible MgO Nanoparticles: Anti-microbial and Antibiofilm Potential for Biomedical Use. Int. J. Mol. Sci. 2025, 26,.. - accepted for publication on 15.09.2025

   Q1, I.F. = 4.9

B. Cărți și manuale

/

C. Participări la conferințe/workshop-uri

1. **Radulescu Denisa-Maria**, Ecaterina Andronescu. Alexandru-Mihai Grumezescu. Ionela-Andreea Neacsu. Adrian-Ionut Nicoara. "Future Trends of Scaffolds Applied in Tissue Engineering" *Applications Chemistry in Nanosciences and Biomaterials Engineering (Nanobiomat 2021) Summer Edition.*
2. **Radulescu Denisa-Maria**, Ecaterina Andronescu. Alexandru-Mihai Grumezescu. Ionela-Andreea Neacsu. Adrian-Ionut Nicoara. "Advanced Active Molecules for Wound Healing Application" *Applications Chemistry in Nanosciences and Biomaterials Engineering (Nanobiomat 2021) Winter Edition.*
3. **Radulescu Denisa-Maria**, Ecaterina Andronescu. Alexandru-Mihai Grumezescu. Ionela-Andreea Neacsu. Adrian-Ionut Nicoara. "Advances in Green Synthesis of Metal Oxide Nanoparticles used in Tissue Engineering" *Applications Chemistry in Nanosciences and Biomaterials Engineering (Nanobiomat 2022) Summer Edition.*
4. **Radulescu, Denisa-Maria**, Ionela Andreea Neacsu, Alexandra Catalina Barca, Alina Maria Holban Bogdan Vasile, Ecaterina Andronescu. "Green Syntheses of Oxidic Nanoparticles and Medical Applications " Paper presented at Conferinta Nationala de Chimie, Editia XXVI, Calimanesti, Romania, October 4-7, 2022.
5. **Radulescu Denisa-Maria**, Ecaterina Andronescu. Alexandru-Mihai Grumezescu. Ionela-Andreea Neacsu. Adrian-Ionut Nicoara. "Latest Research in Green Synthesis of Metal Oxide Nanoparticles Applied in Tissue Engineering." *Applications Chemistry in Nanosciences and Biomaterials Engineering (Nanobiomat 2022) Winter Edition.*
6. **Radulescu Denisa-Maria**, Ecaterina Andronescu. Alexandru-Mihai Grumezescu. Surdu Adrian Vasile, Adrian-Ionut Nicoara. "Green Synthesis of Metal Oxide Nanoparticles Applied in Soft Tissue Engineering" *Applications Chemistry in Nanosciences and Biomaterials Engineering (Nanobiomat 2023) Summer Edition.*
7. **Radulescu Denisa-Maria**, Neacsu Ionela Andreea, Vasile Bodgan Stefan, Andronescu Ecaterina. "Green Synthesis of Zinc, Magnesium, and Copper Oxide Nanoparticles Using Orange Peel Extract". *Applications Chemistry in Nanosciences and Biomaterials Engineering (Nanobiomat 2024) Winter Edition.*
8. **Radulescu Denisa-Maria**, Vasile Bodgan Stefan, Surdu Vasile-Adrian, Trusca Roxana-Doina, Ilie Cornelia-Ioana, Andronescu Ecaterina Andronescu, Ditu Lia-Mara. *"Sustainable Wound Dressings: Chitosan-Silk Fibroin Scaffolds with Green-Synthesized MgO Nanoparticles for Enhanced Healing and Antibacterial Action" 4th International Conference on Bioengineering and Polymer Science Brasov, Romania,* June 2-5, 2025.

Cumulative I.F. = 29.8

D. Brevete: /

E. Proiecte de cercetare științifică: /

F. Stagii de perfecționare: /

G. Cursuri de perfecționare: /

H. Membru în comitete de organizare sau comitete științifice ale conferințelor/colective de redacție ale unor reviste

Student-doctorand
Radulescu Denisa-Maria