

**Universitatea Națională de Știință și Tehnologie POLITEHNICA București**  
**Facultatea de INGINERIE CHIMICĂ și BIOTEHNOLOGII**  
**Departamentul: CHIMIE ORGANICĂ „Costin NENIȚESCU”**  
**Domeniul de studii: INGINERIE CHIMICĂ**

**Cadrul didactic: Prof. dr. ing. DAN EDUARD MIHAIESCU**

**L I S T A**  
**lucrărilor științifice în domeniul disciplinelor din postul didactic**  
**publicate în ultimii 10 ani**

**A. Teza de doctorat:**

"Applications of spectrometry for special conditions chemical reactions", developed under the leadership of Acad.dr.eng. Mircea D. Banciu and completed under the direction Prof.dr.eng. Florin Badea, sustained in 2008.

**Stagiu post-doctoral:**

"Nanostructured composites based stable free radicals" developed under the leadership of Prof.dr.eng. Ecaterina Andronescu - completed in December 2015.

**B. Cărți și capitole în cărți publicate**

B1. F.Babarada, C.Ravariu, N.Bizon, D.E.Mihaiescu, M.Stanca, E.Manea, C.C.Parvulescu, PV Microgrids Efficiency: From Nanomaterials and Semiconductor Polymer Technologies for PV Cells to Global MPPT Control for PV Arrays, Springer International Publishing, 2020, 289-325, DOI:10.1007/978-3-030-23723-3\_12.

B2. C.Ravariu, E.Manea, F.Babarada, D.Ursutiu, D.E.Mihaiescu, Organic Compounds Integrated on Nanostructured Materials for Biomedical Applications, Springer International Publishing, 2019, 489-497, WOS:000455197300055.

B3. I.Burzo, A.Dobrescu, L.Bădulescu, D.E.Mihaiescu, R.Bălan, Fiziologia Plantelor, vol. VIII. Substanțele Utile din Plante, Ed. Elisaváros, București, 2005, ISBN: 973-8400-36-8, 396 pag.

B4. I.Burzo, A.Dobrescu, D.E.Mihaiescu, Fiziologia Plantelor Horticole, Editura Ceres, 2002, 368pag.

B5. Delian Elena, Voican Viorica, Burzo Ioan, Dobrescu Aurelia, Bădulescu Liliana, Dan Mihaiescu, Fiziologia plantelor. Lucrări practice, 2003, AMC-USAMV București, 144 pag.

**C. Lucrări indexate ISI/BDI publicate**

**Lucrari ISI**

C1. Răducanu C.E., Dobre T., Mihaiescu D.E., Moroșan A., Jidveian R., Cioroiu Tîrpan D.R., Vasiliu A.D., Gogoasă C.I., Părvulescu O.C., Trică B., Synthesis of Guanidine and Its Deposition on Bacterial Cellulose as Green Heterogeneous Catalyst for Transesterification to Methyl Esters. Energies, 2024, 17, 6, 1344, Q3, FI 3.2.

- C2. Niculescu A.-G., Munteanu O.M., Bîrcă A.C., Moroşan A., Purcăreanu B., Vasile B.Ş., Istrati D., Mihaiescu D.E., Hadibarata T., Grumezescu A.M., New 3D Vortex Microfluidic System Tested for Magnetic Core-Shell Fe<sub>3</sub>O<sub>4</sub>-SA Nanoparticle Synthesis. *Nanomaterials*, 2024, 14, 902, Q2, FI 4.3.
- C3. Niculescu A.-G., Mihaiescu B., Bîrcă A.C., Moroşan A., Munteanu O.M., Vasile B.Ş., Hadibarata T., Istrati D., Mihaiescu D.E., Grumezescu A.M., Fabrication and Advanced Imaging Characterization of Magnetic Aerogel-Based Thin Films for Water Decontamination. *Gels*, 2024, 10, 394, Q1, FI 5.3.
- C4. Mercan D.-A., Niculescu A.-G., Bîrcă A.C., Cristea D.-E., Moroşan A., Tudorache D.-I., Purcăreanu B., Vasile B.Ş., Radu D., Grigoroscuta M.A., Hadibarata T., Mihaiescu D.E., Grumezescu A.M., Vortex-Mixing Microfluidic Fabrication of Micafungin-Loaded Magnetite-Salicylic Acid-Silica Nanocomposite with Sustained-Release Capacity. *Materials*. 2024; 17(23):5816, Q2, FI 3.2.
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- C8. Nicolae C.-L., Pîrvulescu D.-C., Niculescu A.-G., Epistatu D., Mihaiescu D.E., Antohi A.M., Grumezescu A.M., Croitoru G.-A., An Up-to-Date Review of Materials Science Advances in Bone Grafting for Oral and Maxillofacial Pathology. *Materials*. 2024; 17(19):4782, Q2, FI 3.2.
- C9. Croitoru G.-A., Niculescu A.-G., Epistatu D., Mihaiescu D.E., Antohi A.M., Grumezescu A.M., Nicolae C.-L., Nanostructured Drug Delivery Systems in Immunotherapy: An Updated Overview of Nanotechnology-Based Therapeutic Innovations. *Applied Sciences*. 2024; 14(19):8948, Q2, FI 2.5.
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**Semnătura:**