

Nume Prenume: Pui Aurel

Gradul didactic: Profesor

Instituția unde este titular: Universitatea "Alexandru Ioan Cuza" din Iași

Facultatea: Chimie

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L I S T A LUCRĂRILOR ȘTIINȚIFICE

A. Teza de doctorat

Modelarea procesului de fixare reversibila a oxigenului molecular, UAIC, 1998.

B. Cărți si capitole în cărți publicate în ultimii 5 ani (2021-2025)

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C. Lucrări indexate ISI/BDI publicate în ultimii 5 ani (2021-2025)

1. I Radu, AI Borhan, D Ghercă, AC Dirtu, D Dirtu, DG Popescu, MA Husanu , **APui**, Cobalt oxyhydroxide co-catalyst loaded onto Al: SrTiO₃ surface to boost photocatalytic performance, Materials Chemistry and Physics 332, 130274, 4, 2025.
2. M Nistor, A Nicolescu, RM Amarandi, **A Pui**, RI Stiufiuc, B Dragoi, Multi spectroscopic investigation of maisine-based microemulsions as convenient carriers for co-delivery of anticancer and anti-inflammatory drugs, Scientific Reports 15 (1), 5175, 2025.
3. Hidaoui, S; Hamdi, N; Saadi, M; El Omari, M; **Pui, A**; El Bali, B; El Ammari, L; Lachkar, M., Structural study, spectroscopic characterization, thermal decomposition, Hirshfeld surface analysis, and antibacterial activity of a novel hybrid centrosymmetric material(C₄H₁₂N₂)[Co(H₂O)₂(H₂P₂O₇)₂].2H₂O, Inorganic Chemistry Communications, 174, 2025, 10.1016/j.inoche.2025.114002.
4. Radu Ioana, Borhan Adrian Iulian, Gherca Daniel, Popescu, Dana Georgeta, Borca, Camelia Nicoleta, Huthwelker Thomas, Bulai, Georgiana, Stoian George, Husanu Marius, **Pui Aurel**, Enhancement of SrTiO₃ photocatalytic efficiency by Al doping: Answers from the structure, morphology and electronic properties contributions, Ceramics International, 2024, 50 (11), Page 20664-20675, Part B, DOI10.1016/j.ceramint.2024.03.188
5. Muresan, EI; **Pui, A**; Cernatescu, C.; Cimpoesu, R.; Horhoge, CE.; Istrate, B.; Rimbu, CM., Green Synthesis of Nanoparticles Containing Zinc Complexes and Their Incorporation in Topical Creams with Antimicrobial Properties, Applied Sciences, 2024, 14(11), 4612; <https://doi.org/10.3390/app14114612>.
6. Albu A, Simeanu, C., Pop, I.M., **Pui A**, Tarcău, D., Cucu-Man, S.-M., Selected Characteristics of Multifloral Honeys from North-Eastern Romania, Agriculture (Switzerland), 2024, 14(1).
7. Ciomaga Hatnean V.C.; **Pui A**; Simonov A; Ciomaga Hatnean M., Cristian, Crystal Growth of the R₂SiO₅ Compounds (R = Dy, Ho, and Er) by the Floating Zone Method Using a Laser-Diode-Heated Furnace, Crystals, **2023**, 13 (12), 1687, DOI: 10.3390/cryst13121687
8. Borhan, AI ; Herea, DD ; Husanu, MA; Popescu, DG ; Borca, CN; Huthwelker, T ; Bulai, G ; Radu, I; Dirtu, AC; Dirtu, D; Mita, C; Stoian, G; Ababei, G; Lupu, N ; **Pui, A**; Gherca, D., Straightforward FeOOH nanografting of Al-based SrTiO₃ perovskite material as core-shell nanoflower-like heteronanostructure with enhanced solar light-driven photodegradation

capability, *APPLIED SURFACE SCIENCE*, **2023**, 614, art. nb.156247, DOI:10.1016/j.apsusc.2022.156247.

9. Dănilă, R.-Ú., Dumitru, I., Ignat, M., **Pui, A.**, CoFe₂O₄@HaP as Magnetic Heterostructures for Sustainable Wastewater Treatment, *Materials*, **2023**, 16(7), 2594.
10. Asandulesa, M., Hamciuc, C., **Pui, A.**, Virlan C., Lisa G., Barzic, A.I., Oprisan, B., Cobalt Ferrite/Polyetherimide Composites as Thermally Stable Materials for Electromagnetic Interference Shielding Uses, *International Journal of Molecular Sciences*, **2023**, 24(2), 999.
11. Lakhdar, R., Ouled Amor, C., Ben Mosbah, M., **Pui A.**, Moussaoui Y., Ben Salem, R., Elghniji, K., An investigation of the role of samarium on the sol stability, particle growth, optical, and photocatalytic performance of TiO₂, *Journal of Materials Science: Materials in Electronics*, **2023**, 34(12), 1043.
12. Dănilă, R., Amărândi, R.-M., Ignat, M., **Pui, A.**, Mesoporous MgFe₂O₄@HaP@APTES nanocomposite as scaffold for α-glucosidase coupling, *Materials Today Communications*, **2023**, 36, 106427.
13. Pop, I.M., Simeanu, D., Cucu-Man, S.-M., Pui, A., Albu, A., Quality Profile of Several Monofloral Romanian Honeys, *Agriculture (Switzerland)*, **2023**, 13(1), 75.
14. Radu, I., Turcan, I., Lukacs, A.V., Roman, T., Bulai, G.-A., Olariu, M.A., Dumitru, I., **Pui, A.**, Structural, dielectric and gas sensing properties of gadolinium (Gd³⁺) substituted zinc-manganese nanoferrites, **2022**, *Polyhedron*, 221, 115893.
15. Roman T., Gherca D., Borhan A.-I., Grigoras M., Stoian G., Lupu N., Turcan I., Cimpoesu N., Istrate B., Radu I., Danila R., **Pui A.**, Nanostructured quaternary Ni_{1-x}Cu_xFe_{2-y}Ce_yO₄ complex system: Cerium content and copper substitution dependence of cation distribution and magnetic-electric properties in spinel ferrites, *Ceramics International*, **2021**, 47 (13), 17177-17187.
16. Corneliu Hamciuc, Mihai Asandulesa, Elena Hamciuc, Tiberiu Roman, Marius Andrei Olariu, **Aurel Pui**, Novel Polyimide/Copper-Nickel Ferrite Composites with Tunable Magnetic and Dielectric Properties, *Polymers*, **2021**, 13, 1646., <https://doi.org/10.3390/polym13101646>.
17. Buema G., Borhan A.I., Herea D.D., Stoian G., Chiriac H., Lupu N., Roman T., **Pui A.**, Harja M., Gherca D., Magnetic solid-phase extraction of cadmium ions by hybrid self-assembled multicore type nanobeads, *Polymers (Open Access)* 13 (2), **2021**, (no. 229), 1 – 16.
18. Darie-Ion, L; Jayathirtha, M; Hitruc, GE; Zaharia, MM; Gradinaru, RV; Darie, CC; **Pui, A**; Petre, BA, A Proteomic Approach to Identify Zein Proteins upon Eco-Friendly Ultrasound-Based Extraction, *BIOMOLECULES*, 11 (12), **2021**.

D. Lucrări publicate în ultimii 5 ani (2021-2025) în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

1.

E. Brevete obținute în întreaga activitate

1. L. Odochian, D. Dartu, A. **Pui**, I. Humelnicu, M. Dumitras, C. Tanase, L. Hancu, Brevet de inventie nr. 122359/2009, "Procedeu si instalatie de obtinere a hidrazinei", OSIM Bucuresti.

Data:

20.02.2026