

Universitatea Babeș Bolyai

Facultatea Fizică

Catedra Fizica Stării Condensate și a Tehnologiilor Avansate

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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Studiul influenței modificadorului de rețea vitrosă în sticle pe baza de B_2O_3 asupra stărilor locale ale ionilor metalelor de tranziție

B. Cărți și capitole în cărți publicate în ultimii 10 ani

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani (2016-2025)

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2. M. Bosca, L. C. Bolundut, L. Pop, R. Lucacel-Ciceo, G. Stiuftuc, R. F. Badila, I. Lupan, O. R. Koblicska, A. Onaciu, D. Cenariu, A.-B. Țigu, G. Katona, D. Simedru, P. Pascuta, Synergistic bactericidal and anticancer potential of rubidium and silver-containing phosphate-based bioglasses. *Sci Rep* 15, 37135 (2025). <https://doi.org/10.1038/s41598-025-21009-2>
3. Chiriac, Alexandra M.; Ciceo-Lucacel, Raluca A.; Iancu, Stefania D.; Leopold, Nicolae, Citrate-reduced silver nanoparticles: Synthesis temperature dependent properties, *Applied Surface Science*, 2025, 709 (163759), 1-8, <https://doi.org/10.1016/j.apsusc.2025.163759>
4. Bortnic R, Szatmari A, Dragoiu T, Hategan RG, Atanasov R, Barbu-Tudoran L, Tiusan C, Lucacel-Ciceo R, Dudric R, Tetean R. The Influence of Light Rare-Earth Substitution on Electronic and Magnetic Properties of $CoFe_2O_4$ Nanoparticles. *Nanomaterials*. 2025; 15(15):1152. <https://doi.org/10.3390/nano15151152>
5. Szatmari A, Bortnic R, Dragoiu T, Hategan RG, Barbu-Tudoran L, Tiusan C, Lucacel-Ciceo R, Dudric R, Tetean R. XPS on $Co_{0.95}R_{0.05}Fe_2O_4$ Nanoparticles with $R = Gd$ or Ho . *Applied Sciences*. 2025; 15(15):8313. <https://doi.org/10.3390/app15158313>
6. Andrea Gabriela Crișan, Alina Porfire, Sonia Iurian, Lucia Maria Rus, Raluca Lucăcel Ciceo, Alexandru Turza, Ioan Tomuță, Development of a Bilayer Tablet by Fused Deposition Modeling as a

Sustained-Release Drug Delivery System, Pharmaceuticals, 2023, 16(9), 1-17

7. Andrea Gabriela Crișan, Sonia Iurian, Alina Porfire, Lucia Maria Rus, Catalina Bogdan, Tibor Casian, Raluca Ciceo Lucacel, Alexandru Turza, Sebastian Porav, Ioan Tomuț, QbD guided development of immediate release FDM-3D printed tablets with customizable API doses, International Journal of Pharmaceutics, 2022, 613, 1-20
8. Simona Varvara, Camelia Berghian-Grosan, Roxana Bostan, Raluca Lucacel Ciceo, Zohreh Salarvan, Milad Talebian, Keyvan Raeissi, Javier Izquierdo, Ricardo M.Souto, Experimental characterization, machine learning analysis and computational modelling of the high effective inhibition of copper corrosion by 5-(4-pyridyl)-1,3,4-oxadiazole-2-thiol in saline environment, Electrochimica Acta, 2021, 398, 1-21
9. Andrei Stefancu, Seunghoon Lee, Li Zhu, Min Liu, Raluca Ciceo Lucacel, Emiliano Cortés, Nicolae Leopold, Fermi Level Equilibration at the Metal–Molecule Interface in Plasmonic Systems, Nano Letters, 2021, 21, 6592-6599
10. R. Ciceo-Lucacel, O. Ponta, A. Vulpoi, S. Simon, Behavior of molybdenum lowly doped SiO₂–CaO–P₂O₅ composite interfacing a simulated biologic medium with serum albumin, Journal of Molecular Structure, 2021, 1240, 1-4
11. R. Lucacel Ciceo, M. Todea, D. Toloman, M. Muresan-Pop, V. Simon, Structure-composition correlation in niobium containing borophosphate glasses, Journal of Non-Crystalline Solids 2020, 542, 120102
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14. R Ciceo-Lucacel, M. Todea, V. Simon, Effect of selenium addition on network connectivity in P₂O₅-CaO-MgO-Na₂O glasses, Journal of Non-Crystalline Solids, 2018, 488, 10-13
15. Lucacel, R.C., Ponta, O., Licarete, E., Radu, T., Simon, V., Synthesis, structure, bioactivity and biocompatibility of melt-derived P₂O₅-CaO-B₂O₃-K₂O-MoO₃ glasses, Journal of Non-Crystalline Solids, 2016, 439, 67-73

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Semnătura:

