

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: **Inginerie Chimică și Biotehnologii**

Departamentul: **Chimie anorganică, chimie-fizică și electrochimie**

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Gradul didactic: **Profesor**

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. Sinteza în săruri topite a unor compuși cu elemente în stări de oxidare maximă”, conducător Prof. Dr. Teodor Vișan, Universitatea Politehnica din București, iunie 2000

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

- **Capitole de carte în edituri internaționale**

1. RA Mitran, M Deaconu, **C Matei**, D Berger*, Chapter 11 - Mesoporous Silica as Carrier for Drug-Delivery Systems, Nanocarriers for Drug Delivery, pages 351-374 in Nanocarriers for drug delivery: nanoscience and nanotechnology in drug delivery-; Edited by Shyam S. Mohapatra, Shivendu Ranjan, Nandita Dasgupta, Raghvendra Kumar Mishra, Sabu Thomas, Print version: Nanocarriers for drug delivery. Amsterdam, Netherlands: Elsevier (2019); ISBN: 012814033X; ISBN: 9780128140338
2. R.A.Mitran, D. Berger, **C. Matei***, Azobenzene: Aspects, Applications and Research, Chapter 2 Recent Advances in Hybrid Azobenzene-Silica Materials, Editor Linda E. Watson, Nova Science Publisher Inc., New York, 2017, pp. 29-52 (ISBN: 978-1-53610-673-2)

- **Cărți și capitole de carte în edituri naționale**

1. D. Berger, C. Comănescu, D Istrate, C. Matei, O. Oprea, A.M. Simion, C. Simion, S. Tomas, Teste de Chimie, Ed. Politehnica Press.2021, ISBN: 978-606-515-950-1, 257 pg.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

- **Articole publicate în reviste ISI**

1. Airinei, DN., Modrojan, C., Orbulet, OD., Dancila, AM., Bosomoiu, M., Matei, C. Biodegradable Thermoplastic Materials with Application in the Manufacture of Bags Without Synthetic Polymers POLYMERS 17(3) Article Number 356, DOI10.3390/polym17030356 WOS:001418374000001
2. Lincu, D., Ionita, S., Deaconu, M., Papa, F., Trica, B., Matei, C., Berger, D., Mitran, RA. Optimizing nanocasting techniques for stable bismuth-mesoporous silica composites in thermal energy storage application SUSTAINABLE MATERIALS AND TECHNOLOGIES, 42, 2024 Article Number e01157 DOI10.1016/j.susmat.2024.e01157 WOS:001349809200001
3. Abduraman, A., Brezoiu, AM., Tatia, R., Iorgu, AI., Deaconu, M., Mitran, RA., Matei, C., Berger, D. Mesoporous Titania Nanoparticles for a High-End Valorization of Vitis vinifera Grape Marc Extracts, INORGANICS 12(10) 2024, Article Number 263 DOI10.3390/inorganics12100263 WOS:001342640800001
4. Dudaș, L., Berger, D., Matei, C.* Nonlinearity of the Upconversion Response of Er³⁺ in Y₂TiO₅:Er³⁺,Yb³⁺ Ceramics When Varying the Wavelength of Incident NIR Excitation Radiation, Materials 2024, 17(16), 3994 DOI 10.3390/ma17163994, WOS:001306989700001

5. Leau, S.A., Marin, M., Toader, A.M., Anastasescu, M., Matei, C., Lete, C., Lupu, S. MeNPs-PEDOT Composite-Based Detection Platforms for Epinephrine and Quercetin, *Biosensors-Basel*, 2024, 14(7),320 DOI10.3390/bios14070320, WOS:001276480100001
6. Deaconu, M., Abduraman, A., Brezoiu, A.-M., Sedki, N.K., Ionita S., Matei, C., Ziko, L., Berger, D. Anti-Inflammatory, Antidiabetic, and Antioxidant Properties of Extracts Prepared from Pinot Noir Grape Marc, Free and Incorporated in Porous Silica-Based Supports, *Molecules*, 2024, 29(13),3122, doi.org/10.3390/molecules29133122, WOS:001268054200001
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8. Vladut, C.M., Lincu, D., Berger, D., Matei, C., Mitran, R.-A. Molten Bismuth–Bismuth/Zinc Oxide Composites for High-Temperature Thermal Energy Storage, *Inorganics*, 2024, 12(5), 126, DOI10.3390/inorganics12050126 WOS:001232361300001
9. Pîrțac, A., Nechifor, A.C., Tanczos, S.-K., Oprea, O.C., Grosu, A.R., Matei, C., Grosu, V.-A., Vasile, B. S., Albu, P.C., Nechifor, G. Emulsion Liquid Membranes Based on Os–NP/*n*–Decanol or *n*–Dodecanol Nanodispersions for *p*–Nitrophenol Reduction, *Molecules*, 2024, 29(8), 1842
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14. Lincu, D., Ioniță, S., Mocioiu, O.C., Mitran, RA., Matei, C., Berger, D., Optimization of Synthesis of Shape – Stabilized Phase Change Materials Containing NaCl – NaBr – Na₂MoO₄ and Mesoporous Silica, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 2023, 85(4), pp. 83–98 WOS: 001126670800018 (IF=0.3)
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E. Brevete obținute în întreaga activitate

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