

Lista de publicații

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A. Articole

10. Rubbery organic frameworks (ROFs) toward ultrapermeable CO₂- selective membranes. M. Sandru, M. Prache, T. Macron, **L. Căta**, M. G. Ahunbay, M.- B. Hägg, G. Maurin, M. Barboiu, *Sci. Adv.* **2024**, 10. DOI:10.1126/sciadv.adq5024. Impact factor (2024): 14.136.
9. Sonogashira Synthesis of New Porous Aromatic Framework-Entrapped Palladium Nanoparticles as Heterogeneous Catalysts for Suzuki–Miyaura Cross-Coupling. **L. Căta**, N. Terenti, C. Cociug, N. D. Hădade, I. Grosu, C. Bucur, B. Cojocar, V. I. Parvulescu, M. Mazur, J. Čejka, *ACS Appl. Mater. Interfaces* **2022**, 14, 10428–10437. DOI: 10.1021/acsami.1c24429. Impact factor (2022): 9.229.
8. Halogen-Bonded Organic Frameworks of Perfluoroiodo- and Perfluorodiodobenzene with 2,2',7,7'-Tetrapyridyl-9,9'-spirobifluorene. **L. Pop**, I. G. Grosu, M. Miclăuș, N. D. Hădade, A. Pop, A. Bende, A. Terec, M. Barboiu, I. Grosu, *Cryst. Growth Des.* **2021**, 21, 2, 1045-1054. DOI: 10.1021/acs.cgd.0c01383. Impact factor (2021): 4.076.
7. Halogen bonds (N---I) at work: supramolecular catemeric architectures of 2,7-dipyridylfluorene with ortho-, meta- or para-diodotetrafluorobenzene isomers. I. G. Grosu, **L. Pop**, M. Miclăuș, N. D. Hădade, A. Terec, A. Bende, C. Socaci, M. Barboiu, I. Grosu, *Cryst. Growth Des.* **2020**, 20, 5, 3429-3441. DOI:10.1021/acs.cgd.0c00205. Impact factor (2021): 4.076.
6. Structural diversity ranging from oligonuclear complexes to 1-D and 2-D coordination polymers generated by tetrasubstituted adamantane and spirobifluorene derivatives. T. Mocanu, **L. Pop**, N. D. Hădade, S. Shova, L. Sorace, I. Grosu, M. Andruh, *Eur. J. Inorg. Chem.*, **2019**, 5025-5038. DOI:10.1002/ejic.201901167. Impact factor (2019): 2.529.
5. Spirobifluorene-based Porous Organic Polymers as Efficient Porous Supports for Pd and Pt for Selective Hydrogenation. M. M. Trandafir, **L. Pop**, N. D. Hădade, I. Hristea, C. M. Teodorescu, F. Krumeich, J. A. van Bokhoven, I. Grosu, V. I. Pârvulescu, *ChemCatChem.*, **2019**, 11, 538-549. DOI: 10.1002/cctc.201801247. Impact factor (2019): 4.676
4. Coordination polymers constructed from tetrahedral-shaped adamantane tectons.

T. Mocanu, **L. Pop**, N. D. Hädade, S. Shova, I. Grosu, M. Andruh, *CrystEngCom.*, **2017**, *19*, 27-31. DOI: 10.1039/C6CE02146H. Impact factor (2016): 3.849.

3. An adamantane-based COF: stability, adsorption capability, and behaviour as a catalyst and support for Pd and Au for the hydrogenation of nitrostyrene.

M. M. Trandafir, **L. Pop**, N. D. Hädade, M. Florea, F. Neațu, C. M. Teodorescu, B. Duraki, J. A. van Bokhoven, I. Grosu, V. I. Pârvulescu, H. Garcia, *Catal. Sci. Technol.*, **2016**, *6*, 8344-8354. DOI: 10.1039/C6CY01631F. Impact factor (2016): 5.287.

2. Occurrence of Charge-Assisted Hydrogen Bonding in Bis-amidine Complexes Generating Macrocycles. **L. Pop**, N. D. Hädade, A. van der Lee, M. Barboiu, Y.-M. Legrand, I. Grosu, *Cryst. Growth Des.*, **2016**, *16*, 3271-3278. DOI: 10.1021/acs.cgd.6b00246. Impact factor (2016): 4.890.

1. Exclusive Hydrophobic Self-Assembly of Adaptive Solid-State Networks of Octasubstituted 9, 9'-Spirobifluorenes. **L. Pop**, F. Dumitru, N. D. Hädade, Y.-M. Legrand, A. van der Lee, M. Barboiu, I. Grosu, *Org. Lett.*, **2015**, *17*, 3494-3497. DOI: 10.1021/acs.orglett.5b01576. Impact factor (2015): 6.360.

B. Teza de doctorat

Doctorat în Chimie Organică, Universitatea Babeș-Bolyai ; Conducător științific: Prof. Ion Grosu; Titlul tezei : "Development of smart molecular building blocks for self-assembled networks: MOFs and COFs <http://193.231.20.119/doctorat/teza/fisier/3154>; Distincția: "Summa cum laude" (Excelent)