

LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII ȘTIINȚIFICE DIN PROGRAMUL DE STUDII DOCTORALE

Nume: **Dămoc**
Prenume: **Mădălin**

INSTITUTUL DE CHIMIE MACROMOLECULARĂ	
"PETRU PONI" - IASI	
INTRARE	Nr. <u>3076</u>
IESIRE	ziua <u>06</u> luna <u>07</u> anul <u>2023</u>

1. **Lucrări publicate** în reviste cotate ISI (Web of Science cu factor de impact):
 - a. Damoc, M.; Stoica, A. C.; Măcsim, A. M.; Dascalu, M.; Zaltariov, M. F.; Cazacu, M. Salen-Type Schiff Bases Spaced by the Highly Flexible and Hydrophobic Tetramethyldisiloxane Motif. Some Synthetic, Structural and Behavioral Particularities. *J. Mol. Liq.* **2020**, *316*, 113852. <https://doi.org/10.1016/j.molliq.2020.113852> (IF: **6.633**);
 - b. Damoc, M.; Stoica, A. C.; Dascalu, M.; Asandulesa, M.; Shova, S.; Cazacu, M. Dual Crystalline-Amorphous Salen-Metal Complexes Behave like Nematic Droplets with AIEgens Vistas. *Dalton Trans.* **2021**, *50* (39), 13841–13858. <https://doi.org/10.1039/D1DT01980E> (IF: **4.569**);
 - c. Damoc, M., Stoica, A.C., Blaj, D.A., Măcsim, A.M., Dascalu, M., Cojocaru, C., Shova, S., Cazacu, M. Fourteen-member silacycle built by cascade reactions induced by a platinum catalyst. *J. Mol. Struct.* **2022**, *1269*, 133760. <https://doi.org/10.1016/j.molstruc.2022.133760> (IF: **3.841**);
 - d. Damoc, M., Tigoianu, R.I., Stoica, A.C., Măcsim, A.M., Dascalu, M., Shova, S., Cazacu, M., Micellization Turned on Dual Fluorescence and Room Temperature Phosphorescence by Pseudo-ESIPT in Thiadiazole Derivatives. *J. Phys. Chem. C* **2023**, *127* (1), 99-109. <https://doi.org/10.1021/acs.jpcc.2c07651> (IF: **4.177**);
2. **Articole conexe cu subiectul tezei de doctorat, elaborate pe bază de colaborări** în reviste cotate ISI (Web of Science cu factor de impact):
 - a. Racles, C.; Zaltariov, M. F.; Damoc, M.; Măcsim, A. M.; Iacob, M.; Sacarescu, L. Three Reactions, One Catalyst: A Multi-Purpose Platinum(IV) Complex and Its Silica-

- Supported Homologue for Environmentally Friendly Processes. *Appl. Organomet. Chem.* **2020**, *34* (3), 1–15. <https://doi.org/10.1002/aoc.5422> (IF: 3.9);
- b. Shova, S.; Vlad, A.; Damoc, M.; Tiron, V.; Dascalu, M.; Novitchi, G.; Ursu, C.; Cazacu, M. Nanoscale Coordination Polymer of Dimanganese(II) as Infinite, Flexible Nanosheets with Photo-Switchable Morphology. *Eur. J. Inorg. Chem.* **2020**, *2020* (21), 2043–2054. <https://doi.org/10.1002/ejic.202000098> (IF: 2.551);
- c. Shova, S.; Tiron, V.; Vlad, A.; Novitchi, G.; Dumitrescu, D. G.; Damoc, M.; Zaltariov, M. F.; Cazacu, M. Permethylated Dinuclear Mn(III) Coordination Nanostructure with Stripe-Ordered Magnetic Domains. *Appl. Organomet. Chem.* **2020**, *34* (12), 1–11. <https://doi.org/10.1002/aoc.5957> (IF: 3.9);
- d. Stoica, A. C.; Damoc, M.; Zaltariov, M. F.; Racles, C.; Cazacu, M. Two-Dimensional Coordination Polymers Containing Permethylated Motifs - Promising Candidates for 2D Emerging Materials. Structural, Behavioral and Functional Particularities. *React. Funct. Polym.* **2021**, *168*, 105039. <https://doi.org/10.1016/j.reactfunctpolym.2021.105039> (IF: 4.966);
- e. Stoica, A. C.; Damoc, M.; Tiron, V.; Dascalu, M.; Coroaba, A.; Shova, S.; Cazacu, M., Silanol-functionalized tetranuclear copper complex and its nanoscale-heterogenization by immobilization on glass surface from solution. *J. Mol. Liq.* **2021**, *344*(2-3), 117742. <https://doi.org/10.1016/j.molliq.2021.117742> (IF: 6.633);
- f. Stoica, A. C.; Damoc, M.; Baltag, L.; Macsim, A. M.; Nicolescu, A.; Dinu, M.V.; Ionita, G.; Cazacu, M., One pot reduction hydrophobization of heterogenized platinum with 1,1,3,3-tetramethyldisiloxane. *Appl. Organomet. Chem.* **2021**, *36*(1), 6485. <https://doi.org/10.1002/aoc.6485> (IF: 3.9);
- g. Ciubotaru, B.I., Dascalu, M., Zaltariov, M.F., Macsim, A.M., Damoc, M., Bele, A., Tugui, C., Varganici, C.D., Cazacu, M., Catalyst-free crosslinked sustainable functional silicones by supramolecular interactions. *React Funct Polym.* **2022**, *181*, 105419. <https://doi.org/10.1016/j.reactfunctpolym.2022.105419> (IF: 4.966);
- h. Stoica, A.C., Damoc, M., Cojocar, C., Nicolescu, A., Shova, S., Dascalu, M., Cazacu, M., Some Theoretical and Experimental Evidence for Particularities of the Siloxane Bond. *Molecules* **2022**, *27*, 8563. <https://doi.org/10.3390/molecules27238563> (IF: 4.927);

- i. Stoica, A.C.; Damoc, M.; Shova, S.; Novitchi, G.; Dascalu, M.; Cazacu, M.A. Manganese(II) 3D Metal–Organic Framework with Siloxane-Spaced Dicarboxylic Ligand: Synthesis, Structure, and Properties. *Inorganics* **2023**, *11*, 21. <https://doi.org/10.3390/inorganics11010021> (IF: 3.149);
- j. Farcas, A.; Damoc, M.; Asandulesa, M.; Aubert, P.H.; Tigoianu, R.I.; Ursu, L.E. The straightforward approach of tuning the photoluminescence and electrical properties of encapsulated PEDOT end-capped by pyrene. *J. Mol. Liq.* **2023**, *376*, 121461. <https://doi.org/10.1016/j.molliq.2023.121461> (IF: 6.633).

3. Comunicări la conferințe naționale sau internaționale

- a. Dual Crystalline-Amorphous Schiff Base Complexes with Unusual Mesogen Phase Behavior (Damoc, M.; Dascalu, M.; Asandulesa, M.; Cazacu, M.); *Scientific Communications Session of Young Researchers*, 19 November, **2020**, Iași, România.
- b. Siloxane/Silane Derivatives and Their Gold Complexes: Interfacial Phenomena Based on Photoluminescence (Damoc, M.; Stoica, A.-C.; Dascalu, M.; Macsim, A.M.; Tigoianu, R.I.; Blaj, D.; Rusu, A.G.; Iacob, M.; Cazacu, M.) *Progress in Organic and Macromolecular Compounds Conference MacroIasi'2021*, October 7-9, **2021**, Iași, România.
- c. Multi-Step Procedure Leading to a Heterocycle Containing Dimethylsilane Unit (Damoc, M.; Stoica, A.-C.; Blaj, D.; Macsim, A.M.; Dascalu, M.; Cazacu, M.) *Scientific Communications of Young Researchers Macroyouth'*, 19 November, **2021**, Iași, România.
- d. Efficient Light Harvesting Strategies by Suppressing the Kasha's Rule in Thiadiazole Derivatives (Damoc, M.; Tigoianu, R.I.; Stoica, A.-C.; Macsim, A.M.; Dascalu, M.; Shova, S.; Cazacu, M.), *A XXXVI-a Conferința Națională de Chimie, Călimănești – Căciulata*, 4-7 October, **2022**, Vâlcea, România.
- e. Merging Hydrophobic Moieties Within Five-Membered Heterocycles. Mighty Approaches Toward Achieving Some Spectacular Phenomena (Damoc, M.; Stoica, A.-C.; Cazacu, M.), *Scientific Communications of Young Researchers Macroyouth*, November 18, **2022**, Iași, România.

4. Prezentări poster la conferințe naționale sau internaționale

- a. Engineering Organic Heterocycles and Silacycles Through a Pt(II) Catalyst (Dămoc, M.; Stoica, A.-C.; Cazacu, M.), *The International School on Innovations in Homogeneous and Supported Homogeneous Catalysis*, 25-28 aprilie, **2023**, București, România.
- b. High-Energy Intermolecular Proton Transfer Generating Multiple Emissions in Aminothiadiazole Derivatives (Dămoc, M.; Tigoianu, R.I.; Stoica, A.-C.; Cazacu, M.), *Thematic School Vibrational and Electronic spectroscopies applied to the study of reaction mechanisms – MECAREACT*, 18-23 june, **2023**, Paris, France.

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