ANEXA 6

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

Nume: Stoica
Prenume: Alexandru-Constantin

1. *Lucrări publicate* în reviste cotate ISI:

1. **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. Journal of Molecular Liquids, 344, 117742 (2021). https://doi.org/10.1016/j.molliq.2021.117742 (**IF = 6.0**)

2. **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. Reactive and Functional Polymers, 168, 105039 (2021). https://doi.org/10.1016/j.reactfunctpolym.2021.105039, (**IF = 5.1**)

3. Dascalu M., **Stoica A.-C.**, Bele A., Macsim A.-M., Bargan A., Varganici C.-D., Stiubianu G.-T., Racles C., Shova S., Cazacu M. Octakis(carboxyalkyl thioethyl)silsesquioxanes and derived metal complexes: Synthesis, characterization and catalytic activity assessments. Journal of Inorganic and Organometallic Polymers and Materials, 32, 3955–3970 (2022). https://doi.org/10.1007/s10904-022-02408-8 (**IF = 4.0**)

4. **Stoica A.-C.**, Damoc M., Cojocaru C., Nicolescu A., Shova S., Dascalu M., Cazacu M. Some theoretical and experimental evidence for particularities of the siloxane bond. Molecules, 23, 8563 (2022). https://doi.org/10.3390/molecules27238563 (**IF = 4.6**)

5. **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, 21 (2023). https://doi.org/10.3390/inorganics11010021 (**IF = 2.9**)

6. Dascalu M., **Stoica A.-C.**, Bele A., Yu L., Ionita D., Vasiliu A.-L., Skov A.L., Racles C., Cazacu M. Fully carboxy-functionalized polyhedral silsesquioxanes as polar fillers to enhance

the performance of dielectric silicone elastomers. Polymer, 126492, https://doi.org/10.1016/j.polymer.2023.126492. (**IF = 4.6**)

7. **Stoica A.-C.**, Damoc M., Bele A., Dascalu A., Macsim A.-M., Shova S., Dascalu M., Cazacu M. A dense 3D metal-organic structure built by coordinating Cd(II) with conformationally flexible mixed ligands – an active filler for silicone elastomers, Journal of Material Science- *under review*

2. *Brevete (rezultate conexe tezei)*

1. Racleș C., Cazacu M., **Stoica A.-C.,** Diac C. Procedeu de re-valorificare a catalizatorilor auto uzați, A/00272/2020

2. Bele A., Cazacu M., **Stoica A.-C.**, Racleș C., Tiron V., Burducea I., Procedeu de obținere a unui modul de senzori polimerici de presiune pentru detectarea unui impact mecanic, A/00664/2023

3. *Comunicări la conferințe naționale sau internaționale*

1. **Stoica A.-C.**, Dămoc M., Cazacu M. O abordare originală asupra unui nou catalizator eterogen pe bază de Pt(0), Scientific Communications Of Young Researchers MacroYouth'2020, 1st Edition, Iasi, November 19, 2020

2. **Stoica A.-C.**, Damoc M., Stiubianu G., Cazacu M. Permethylated two-dimensional metal-organic frameworks - promising candidates for emerging 2D Materials. AAAFM-UCLA International Conference on Advances in Functional Materials, 18.08.2021, California, Los Angeles.

3. **Stoica A.-C.**, Damoc M., Dascalu M., Cazacu M. Copper tetranuclear complex bearing silanol functional groups, Scientific Communications Of Young Researchers Macroyouth'2021, 2nd Edition, Iasi, November 19, 2021

4. **Stoica A.-C.**, Damoc M., Dascalu M., Cazacu M. Particularități în comportarea chimică a 1,3-bis(2-aminoetilaminometil)tetrametildisiloxanului. Sesiunea De Comunicări Ştiinţifice A Studenţilor, Masteranzilor Şi Doctoranzilor, „Chimia - Frontieră Deschisă Spre Cunoaştere" Ediţia XIII, Iaşi, 28 Octombrie 2022

5. **Stoica A.-C.**, Damoc M., Dascalu M., Cazacu M. Coordination Polymers Built With 1,3-Bis(Cyanopropyl)Tetramethyldisiloxane Ligand, A XXXVI-a Conferinţă Naţională de Chimie – Cnchim-2022 Călimăneşti – Căciulata

6. Damoc M., **Stoica A.-C.**, Dascalu M., Macsim A.-M., Tigoianu R.I., Blaj D., Rusu A.G., Iacob M., Cazacu M. Siloxane/silane derivates based on 5-amino-1,3,4-thidiazole-2-thiol and their gold

complexes: interfacial phenomena based on photoluminescence. A XXVIII-a Sesiune de Comunicări Ştiinţifice a Institutului de Chimie Macromoleculară „Petru Poni" Iaşi Progrese în Ştiinţa Compuşilor Organici şi Macromoleculari, 7-9.10.2021, Iaşi, România

7. Damoc M., Tiron V., Tugui C., Varganici C.-D., **Stoica A.-C.**, Novitchi G., Dascalu M., Cazacu M. A Ferronematic Co(II) coordination compound suitable as active filler for magnetically actuated materials. A XXVIII-a Sesiune de Comunicări Ştiinţifice a Institutului de Chimie Macromoleculară „Petru Poni" Iaşi Progrese în Ştiinţa Compuşilor Organici şi Macromoleculari, 7-9.10.2021, Iaşi, România

8. Damoc M., **Stoica A.-C.**, Blaj D., Macsim A.M., Dascalu M., Cazacu M. Multi-step procedure leading to a heterocycle containing dimethylsilane unit. Scientific Communications of Young Researchers Macroyouth, 19.11.2021, Iaşi, România.

9. Damoc M., Tigoianu R.I., **Stoica A.-C.**, Macsim A.M., Dascalu M., Shova S., Cazacu M. Efficient light harvesting strategies by suppressing the kasha's rule in thiadiazole derivatives. A XXXVI-a Conferinţa Naţională de Chimie, Călimăneşti-Căciulata, 4-7.10.2022, Vâlcea, România.

10. Damoc M., **Stoica A.-C.**, Cazacu M. Merging hydrophobic moieties within five-membered heterocycles. Mighty approaches toward achieving some spectacular phenomena. Scientific Communications of Young Researchers Macroyouth, 18.11.2022, Iaşi, România.

4. *Alte menţiuni*

Lucrări publicate în reviste cotate ISI (rezultatele nu sunt incluse în teză)

1. Dămoc M., **Stoica A.C.,** Macsim A.M., Dascălu 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. Journal of Molecular Liquids, 316 113852, (2020). https://doi.org/10.1016/j.molliq.2020.113852 (**IF = 6.0**)

2. 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 Transactions, 50, 13841-13858, (2021). https://doi.org/10.1039/d1dt01980e (**IF=4.0**)

3. **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. Applied Organometallic Chemistry, e6485, (2021). https://doi.org/10.1002/aoc.6485 (**IF = 3.9**)

4. Damoc M., **Stoica A.-C.,** Blaj D., Macsim A.-M., Dascalu M., Cojocaru C., Shova S., Cazacu M. Fourteen-member silacycle built by cascade reactions induced by a platinum catalyst. Journal of Molecular Structure. 1269, 133760 (2022). https://doi.org/10.1016/j.molstruc.2022.133760 (**IF = 3.8**)

5. Damoc M., Tigoianu R. I., **Stoica A.-C.,** Macsim A.-M., Dascalu M., Shova S., Cazacu M. Micellization turned on dual fluorescence and room temperature phosphorescence by pseudo-ESIPT in thiadiazole derivatives. Journal of Physical Chemistry C, 127, 99-109 (2022). https://doi.org/10.1021/acs.jpcc.2c07651 (**IF = 3.7**)

Postere

1. **Stoica A.-C.**, Dascalu M., Damoc M., Cazacu M. Some coordination polymers with pyridine-based ligands: synthesis and structural characterization. Progress in Organic and Macromolecular Compounds, 29th Edition, 4-6.10.2023, Iasi, Romania.
2. Damoc M., **Stoica A.-C.**, Cazacu M. Engineering organic heterocycles and silacycles through a Pt(II) catalyst. The international school on innovations in homogeneous and supported homogeneous catalysis, 25-28.04.2023, București, România.
3. Damoc M., Tigoianu R.I., **Stoica A.-C.**, Cazacu M. High-energy intermolecular proton transfer generating multiple emissions in aminothiadiazole derivatives. Thematic School Vibrational and Electronic spectroscopies applied to the study of reaction mechanisms – MECAREACT, 18-23.06.2023, Paris, France
4. Dascalu M., **Stoica A.-C.**, Bele A., Yu L., Ionita D., Vasiliu A.-L., Skov A.L., Racles C., Cazacu M. An approach to develop silicone elastomers with enhanced electromechanical transduction properties based on multicarboxy-POSS. 10th European Silicon Days, 10-12.07.2023, Montpellier France.

Semnătură,

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