

Lista de publicatii din ultimii 10 ani

1. J. Stanojkovic, R.A. Saikia, M.C. Stuparu, "Peri-Annulations Bestow Configurational Stability onto Chiral Molecular Graphene Bowls", *Organic Letters* **2025**, 27, 13181-13186, <https://doi.org/10.1021/acs.orglett.5c03767> (IF = 5)
2. M. Stuparu, "Solution is not the only solution: nanographenes by mechanochemistry" *Trends in Chemistry* **2025**, 7, 259-262, <https://doi.org/10.1016/j.trechm.2025.02.0072025> (IF = 13.6)
3. J. Stanojkovic, N. Terenti, M.C. Stuparu*, "Direct Edge Functionalization of Corannulene-Coronene Hybrid Nanographenes" *JACS Au* **2025**, <https://doi.org/10.1021/jacsau.4c01218> (IF = 8.6)
4. Z. Zhang, M.C. Stuparu*, "Intramolecular direct arylation through mechanochemistry: efficient synthesis of corannulene-based peri-annulated curved nanographenes, *Science China-Chemistry* **2025**, <https://doi.org/10.1007/s11426-024-2520-y> (IF = 10.4)
5. Z.B. Zhang, D. Csókás, I. Fernández, M.C. Stuparu*, "Chiral stacks of a curved nanographene" *Chem.* **2024**, 10, 3199-3211, <https://doi.org/10.1016/j.chempr.2024.07.008> (IF=19.1)
6. G. Hum, E. M. Muzammil, Y. Li, Yongxin, F. Garcia*, M.C. Stuparu*, "Mechanochemical Synthesis of Corannulene Flanked N-heterocyclic Carbene (NHC) Precursors and Preparation of Their Metal Complexes, *Chem. Eur. J.* **2024**, 30, e202402056, <https://doi.org/10.1002/chem.202402056> (IF=5.02)
7. G. Bati, D. Csókás, M. C. Stuparu*, "Mechanochemical Scholl Reaction on Phenylated Cyclopentadiene Core: One-Step Synthesis of Fluoreno[5]helicenes", *Chem. Eur. J.*, **2024**, 29, e202302971, <https://doi.org/10.1002/chem.202302971> (IF = 5.02)
8. G. Bati, D. Csókás, G.-I. Giurgi, J. Zhou, L. A. Szolga, R. D Webster, M. C Stuparu*: "Non-Fullerene Electron Acceptors Based on Hybridisation of Corannulene and Thiophene-S,S-Dioxide Motifs" *Chem. Eur. J.*, **2023**, 29, e202203856, <https://doi.org/10.1002/chem.202203856> (IF = 5.02)
9. G. Hum, S. J. I. Phang, H. C. Ong, F. León, S. Quek, Y. X. J. Khoo, C. Li, Y. Li, J. K Clegg, J. Díaz, M. C Stuparu, F. García, "Main Group Molecular Switches with Swivel

- Bifurcated to Trifurcated Hydrogen Bond Mode of Action”, *J. Am. Chem. Soc.* **2023**, 145, 23, 12475–12486, <https://doi.org/10.1021/jacs.2c12713> (IF = 15.00)
10. B. Gabor, S. Laxmi, M. C. Stuparu*: “Mechanochemical Synthesis of Corannulene: Scalable and Efficient Preparation of a Curved Polycyclic Aromatic Hydrocarbon under Ball Milling Conditions”, *ChemSusChem*, **2023**, accepted (IF = 8.4).
 11. Q. Zhong, V. Barat, D. Csokas, K. Niu, M. Gorecki, A. Ghosh, J. Björk, D. Ebeling, L. Chi*, A. Schirmeisen*, M. C. Stuparu*: “On-Surface Stereochemical Characterization of a Highly Curved Chiral Nanographene by Non-Contact Atomic Force Microscopy and Scanning Tunneling Microscopy”, *CCS Chem*, **2023**, DOI:<https://doi.org/10.31635/ccschem.023.202303065> (IF = 11.2).
 12. J. Stanojkovic, R. Williams, Z. Zhang, J. Zhou, R. D. Webster, M. C. Stuparu*: “Synthesis of Precisely Functionalizable Curved Nanographenes via Graphitization-Induced Regioselective Chlorination in a Mechanochemical Scholl Reaction”, *Nat. Commun.* **2023**, 14, 803 (IF = 16.6).
 13. M. C. Stuparu*: “Macromolecular Architectures of Corannulene: Synthesis, Properties, and Applications of Polymers Containing a Molecular Bowl of Carbon”, *Chem. Mat.* **2023**, 35, 1836 (IF = 8.6).
 14. D. Halilovic, D. Csókás, R. D Webster, M. C Stuparu*: “Bilateral Aromatic Extension of Corannulene Nucelus”, *Eur. J. Org. Chem.* **2022**, e202101548 (IF = 2.8).
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 16. T. Yong, B. Gabor, F. Garcia,* M. C. Stuparu*: “Mechanochemical Transformation of Planar Polyarenes to Curved Fused-Ring Systems”, *Nat. Commun.* **2021**, 12, 5187 (IF = 16.6).
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21. V. Barat, T. Eom, A. Khan, M. C. Stuparu*: “Buckybowl Polymers: Synthesis of Corannulene-Containing Polymers through Post-Polymerization Modification Strategy”, *Polym. Chem.* **2021**, 12, 5209 (IF = 4.6).
22. V. Barat and M. C. Stuparu*: “Corannulene Chalcogenides”, *Chem. Asian J.* **2021**, 16, 20 (IF = 4.1).
23. H. Khuntia, T. Trinadh, K. S. Bhavani, T. Anusha, M. C. Stuparu*, P. K. Brahman*: “Synthesis and characterization of corannulene-metal-organic framework support material for palladium catalyst: An excellent anode material for accelerated methanol oxidation”, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 615, 126237 (IF = 5.5).
24. K. S. Bhavani, T. Anusha, M. C. Stuparu*, P. K. Brahman*: “Synthesis and characterization of palladium nanoparticles-corannulene nanocomposite: An anode electrocatalyst for direct oxidation of methanol in alkaline medium”, *Journal of Electroanalytical Chemistry*, **2021**, 900, 115654 (IF = 4.5).
25. Gabor, D. Csokas, T. Yong, S. M. Tam, R. R. S. Shi, R. D. Webster, I. Papai, F. Garcia*, M. C. Stuparu*: “Mechanochemical Synthesis of Corannulene-Based Curved Nanographenes”, *Angew. Chem. Int. Ed.* **2020**, 59, 21620 (IF = 16.6).
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28. V. Barat and M. C. Stuparu*: "Selenium and Tellurium Derivatives of Corannulene: Serendipitous Finding of a One-Dimensional Stereoregular Coordination Polymer Crystal Based on Te-O Backbone and Side-Chain Aromatic Array", *Chem. Eur. J.* **2020**, *26*, 15135 (IF = 4.3).
29. J. Stanvokjovic, J. Oh, A. Khan*, M. C. Stuparu*: "Synthesis of Thermoresponsive Oligo (ethylene glycol) Polymers through Radical Ring-Opening Polymerization of Vinylcyclopropane Monomers", *RSC Advances*, **2020**, *10*, 2359 (IF = 3.9).
30. E. M. Muzammil, D. Halilovic, and M. C. Stuparu*: "Synthesis of Corannulene-based Nanographenes", *Commun. Chemistry*, **2019**, *2*, 58 (IF = 5.9).
31. V. Barat, M. Budanovic, D. Halilovic, J. Huh, R. D. Webster, S. Mahadevegowda, M. C. Stuparu*: "A General Approach to Non-Fullerene Electron Acceptors Based on the Corannulene Motif", *Chem. Commun.* **2019**, *55*, 3113 (IF = 4.9).
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