

Lista cu cele mai semnificative realizări profesionale

I. Articole științifice

1. Synthetic approaches of epoxysuccinate chemical probes I. Nicolau, N. D. Hădăde, M. Matache, D. P. Funeriu *ChemBioChem* e202300157. DOI: 10.1002/cbic.202300157.
2. Shifting emission of oxadiazoles via inter- or intramolecular hydrogen bonding C. C. Anghel, A. G. Mirea, C. C. Popescu, A. M. Mădălan, A. Hanganu, A. Bende, N. D. Hădăde*, M. Matache*, M. Andruh* *Dyes and Pigments*, **2023**, 210, 111023. DOI: 10.1016/j.dyepig.2022.111023
3. Solid-Phase Peptide Synthesis – Evaluation of Resin Loading and Preparation of an Amide C-Terminal Dipeptide I. Nicolau, A. Paun, C. C. Popescu, N. D. Hădăde, M. Matache *J. Chem. Educ.* **2023**, 100, 6, 2430–2434. DOI: 10.1021/acs.jchemed.3c00186
4. Exploring Arylazo-3,5-Bis(trifluoromethyl)pyrazole Switches B. C. Enache, A. Hanganu, C. Tablet, C. C. Anghel, C. C. Popescu, A. Paun, N. D. Hădăde, A. M. Mădălan, M. Matache *ACS Omega* **2022**, 7, 39122–39135. DOI: 10.1021/acsomega.2c04984
5. Macrocyclic Compounds Formed in the Reaction of 3,7-Bis(*ortho*-, *meta*- or *para*-formylphenyl)phenothiazines with meta-Bis(aminomethyl)benzene: Experimental and Theoretical Investigations I. Stroia, M. I. Nan, E. Bogdan, A. Terec, N. D. Hădăde*, Ion Grosu* *Rev. Roum. Chim* **2023**, 67, 141-149. DOI:10.33224/rch.2022.67.3.01
6. Novel Macrocycles Embedding *p,p'*-Terphenyl Units: Synthesis, Characterization, Single Crystal X-ray Molecular Structures and Theoretical Investigations, I. Stroia, A. Pop, M. I. Nan, E. Bogdan, A. Terec, N. D. Hădăde, I. Grosu, *Rev. Roum. Chim.* **2022**, 67, 233–239. DOI: 10.33224/rch.2022.67.4-5.01
7. 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. Hădăde*, I. Grosu*, C. Bucur, B. Cojocaru, V. I. Parvulescu*, M. Mazur, and J. Čejka* *ACS Appl. Mater. Interfaces* **2022**, 14, 10428–10437, DOI: 10.1021/acsami.1c24429.
8. Two are better than one - Synthesis of novel blue and green emissive hydroxy-oxadiazoles C. C. Anghel, C. Bădescu, A. G. Mirea, A. Păun, N. D. Hădăde, A. M. Mădălan, M. Matache, C. C. Popescu *Dyes and Pigments*, **2022**, 109927, DOI: 10.1016/j.dyepig.2021.109927.
9. Effect of the mode of fixation of the thienyl rings on the electronic properties of electron acceptors based on indacenodithiophene (IDT). N. Terenti, A. P. Crisan, S. Jungsuttiwong, N. D. Hădăde, A. Pop, I. Grosu, J. Roncali, *Dyes Pigm.* **2021**, 109116, DOI:10.1016/j.dyepig.2020.109116.
10. An attempt to synthesize a terthienyl-based analog of indacenodithiophene (IDT): unexpected synthesis of a naphtho[2,3-*b*]thiophene derivative. C. C. Anghel, I. Stroia, A. Pop, A. Bende, I. Grosu, N. D. Hădăde*, J. Roncali,* *RSC Adv.* **2021**, 11, 9894–9900, DOI: 10.1039/D1RA00659B.
11. 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. Hădăde, A. Pop, A. Bende, A. Terec, M. Bărboiu, I. Grosu, *Cryst. Growth Des.* **2021**, 21, 1045–1054, DOI: 10.1021/acs.cgd.0c01383.
12. Halogen Bonds (N---I) at Work: Supramolecular Catemeric Architectures of 2,7-Dipyridylfluorene with *ortho*-, *meta*- or *para*-Diiodotetrafluorobenzene Isomers. I. G. Grosu, L. Pop, M. Miclăuș, N.

- D. Hădăde, A. Terec, A. Bende, C. Socaci, M. Barboiu, I. Grosu, *Cryst. Growth Des.* **2020**, *20*, 3429–3441, DOI:10.1021/acs.cgd.0c00205.
13. Yellow” laccase from *Sclerotinia sclerotiorum* is a blue laccase that enhances its substrate affinity by forming a reversible tyrosyl-product adduct. A. C. Mot, C. Coman, N. Hădăde, G. Damian, R. Silaghi-Dumitrescu, H. Heering, *PloS one* **2020**, *15*, e0225530, DOI: 10.1371/journal.pone.0225530.
 14. A polycarboxylic chelating ligand for efficient resin purification of His-tagged proteins expressed in mammalian systems. C. C. Popescu, M. C. Stoian, L.-M. Cucos, A. G. Coman, A. Radoi, A. Paun, N. D. Hădăde, A. Gautier, C.-I. Popescu, M. Matache, *RSC Adv.* **2020**, *10*, 23931–23935, DOI: 10.1039/D0RA02382E.
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 16. Selective Hydration of Electron-Rich Aryl-Alkynes by a Schrock-Type Molybdenum Alkylidene Catalyst. A. Crișan, A. Pop, E. Bogdan, M. Matache, L. Pop, A. Terec, I. Grosu,* N. Hădăde,* *Rev. Roum. Chim.* **2020**, *65*, 699–705, DOI: 10.33224/rrch.2020.65.7-8.07.
 17. 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. Hădăde, S. Shova, L. Sorace, I. Grosu, M. Andruh, *Eur. J. Inorg. Chem.* **2019**, 5025–5038, DOI: 10.1002/ejic.201901167.
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 22. Poly [3, 4-dihydroxybenzhydrazide]: A Polydopamine Analogue? A. Petran, N. D. Hădăde, C. Filip, X. Filip, A. Bende, A. Popa, J. Liebscher, *Macromolec. Chem. Phys.* **2018**, *219*, 1700564, DOI: 10.1002/macp.201700564.
 23. A three-armed cryptand with triazine and pyridine units: synthesis, structure and complexation with polycyclic aromatic compounds. C. Lar, A. Woiczehowski-Pop, A. Bende, I. G. Grosu, N. Miklášová, E. Bogdan, N. D. Hădăde, A. Terec, I. Grosu, *Beilstein J. Org. Chem.* **2018**, *14*, 1370–1377. DOI: 10.3762/bjoc.14.115.
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- II. Susținerea de conferințe la diferite congrese și universități (mai mult de 15 conferințe susținute, 6 în anul 2023: KAUST Arabia Saudită -, februarie 2023, Online – organizată de Societatea Germană de Chimie – martie 2023, Universitatea din Aachen, Universitatea Tehnică din Braunschweig și Universitatea Humboldt din Berlin – aprilie 2023, Institutul European de Membrane, Montpellier, Franța – septembrie 2023.

III. Granturi de cercetare

3 granturi in calitate de director de proiect și membru in echipa a peste 15 granturi de cercetare

IV. Vicepreședinte clasa X (2021 și 2022) și clasa XI (2023) în Comisia Centrală a Olimpiadei Naționale de Chimie.

V. Membru al Consiliului Științific al UBB (2020 – prezent)

VI. Membru al CNCS (martie 2020 – mai 2022).

VII. Activitate didactică – actualizarea listelor de lucrări practice la disciplinele Chimie Organometalică și aplicații în procese chimice organice și Compuși Organici în Sisteme

Cluj-Napoca, 26.09.2023

Dr. Niculina D. Hădade

