

List of Publications by DSC Doctoral Students (2021-2026)

1. Williams, L.J.; Kamps, J.J.A.G.; Brânzanic, A.M.V.; **Lehene, M.**; Lundgren, K.J.M.; Ryde, U.; Chatterjee, K.; Doyle, MD.; Simon, PS.; Makita, H; Thompson, AJ.; Brewster, AS.; Zhou, T; Lučić, M; Wilson, MT.; Aller, P; Sanchez-Weatherby, J; Gee, L; Dehe, S; Mous, S; Yano, J; Yachandra, VK.; Hough, MA.; Orville, AM.; Kern, JF.; Silaghi-Dumitrescu, RL; Worrall JA. R. Can ferric-oxyl excited states explain elongated iron-oxygen bonds in heme peroxidase catalytic intermediates?. *Nature Communications* **2026**. DOI: [10.1038/s41467-026-69192-8](https://doi.org/10.1038/s41467-026-69192-8)
2. **Honvári, M.G.**; **Mócza, L.A.**; Kucsinka, B.A.; Csuka, P.; Bódai, V.; Scrob, D.M.; Poppe, L.; Hornyánszky, G. Enantiocomplementary Biorreduction of Flexible Ring N-(3-Oxobutyl)Heterocycles Providing Enantiopure Chiral Fragments for Drug Discovery. *ChemBioChem* **2025**, 26, e202500601. DOI: 10.1002/cbic.202500601.
3. Magyar, P.; Újvári, Sz.; Molnár, Zs.; Orgován, Z.; Balogh-Weiser, D.; Nagy, B.E.; **Scrob, D.M.**; Poppe, L.; Ábrányi-Balogh, P. Buffer-Mediated Catalyst-Free Strecker Reaction Toward Enzymatic Implementation. *Chemistry Open* **2025**, e202500389. DOI: 10.1002/open.202500389.
4. **Adăscăliței, F.**; Raț, C. I.; Vlăsa, M.; Varga, R.A.; Silvestru, C., Synthesis and spectroscopic characterization of homoleptic triorganopnictogen(III) compounds - useful precursors for functionalized materials. Molecular structure of [4- $\{(\text{CH}_2\text{O})_2\text{CH}\}\text{C}_6\text{H}_4\}_3\text{Sb}$, *Rev. Roum. Chim.* **2025**, 70, 249. DOI: 10.33224/rrch.2025.70.5-6.02
5. **Aghion, I.A.**; Septelean, R.; Moraru, I.T.; Cristea, A.; Soran, A.; Nemes, G. Tailoring the Synthesis and Stability of Germylenes via Electron-Rich P=C-P and P=C-P(=S) Derivatives, *Inorganic Chemistry* **2025**, 64, 23457. DOI: [10.1021/acs.inorgchem.5c03621](https://doi.org/10.1021/acs.inorgchem.5c03621)
6. **Aghion, I.A.**; Septelean, R.A.; Lucaci, D.; Moraru, I.T.; Soran, A.; Ciocan, C.C.; Licarete, E.; Banciu, M.; Nemes, G. Synthesis and coordination ability of the first phosphavinyl(selenoxo)phosphorane: an electronic story, *RSC Advances* **2025**, 15, 43426–43435, DOI: [10.1039/d5ra05176b](https://doi.org/10.1039/d5ra05176b)
7. Andrian, N.; **Zăgrean-Tuza, C.**; **Lehene, M.**; Brem, B; Gal, E; **Stoian, B.**; Gaina, L; Hey-Hawkins, E.; Silaghi-Dumitrescu, R. Controlling the biologically relevant reactivity in coumarin derivatives: from antioxidant to prooxidant to DNA toxicity in two 5,7-dihydroxy-2H-chromen-2-one derivatives. *Revue Roumaine de Chimie* **2025**, 70(7–8), 421. DOI: 10.33224/rrch.2025.70.7-8.06

8. Balázs, B; **Stoian, B; Molnár, É**; Fischer-Fodor, E; Balacescu, O; Borlan, R; Focsan, M; Grozav, A; Achimas-Cadariu, P; Gál, E; Gaina, L, Meso-Substituted AB3-type phenothiazinyl porphyrins and their indium and zinc complexes photosensitising properties, cytotoxicity and phototoxicity on ovarian cancer cells, *RSC Medicinal Chemistry* **2025**, *16*(2), 747. DOI: [10.1039/D4MD00601A](https://doi.org/10.1039/D4MD00601A)
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11. **Boros, K.; Nagy, BE.; Tomoiagă, RB**; Tótós, R.; Toşa, MI; Paizs, C.; Bencze, LC; Fine tuning enzyme activity assays for monitoring the enzymatic hydrolysis of PET, *Scientific Reports* **2025**, *15*(1), 7361. DOI: [10.1038/s41598-024-84177-7](https://doi.org/10.1038/s41598-024-84177-7)
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15. Cîrjeu, V; Andrian, N; Puşcaş, C; **Zăgrean-Tuza, C.**; Silaghi-Dumitrescu, R. Dacarbazine affects the redox reactivity of hemoglobin. *Journal of Porphyrins and Phthalocyanines* **2025**, *29* (9), 958. DOI: [10.1142/S1088424625500725](https://doi.org/10.1142/S1088424625500725)
16. Cosprundan, AM; Andrian, N; **Zăgrean-Tuza, C.**; **Lehene, M.**; Brem, B.; Gal, E.; Lupan, A.; Silaghi-Dumitrescu, R. Influence of the second coordination sphere on the autooxidation reaction in oxygen-binding proteins. *Revue Roumaine de Chimie* **2025**, *70*(5–6), 313. DOI:

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17. Dandea, SM; Hașaș, AD; Toma, VA; **Lehene, M**; Scurtu, F.; Peștean, C.P.; Codea, RA; Bel, LV; Melega, I.; Silaghi-Dumitrescu, R; Sevastre, B. Veterinary Perspectives on Hemoglobin-Based Oxygen Carriers in Experimental Hemorrhagic Shock: Insights from Rabbit Models. *Veterinary Sciences* **2025**, *12*, 485. DOI: [10.3390/vetsci12050485](https://doi.org/10.3390/vetsci12050485)
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22. Mocanu, A; **Ujica, MA**; Horovitz, O; Tomoaia, G; Soritau, O; Dobrota, CT; Popa, CR; Kun, A; Benea, HRC; Mang, IM; Borodi, G; Raischi, V; Roman, M; Pop, LC; Tomoaia-Cotisel, M, Enhanced Stability of Multi-Functionalized Gold Nanoparticles and Potential Anticancer Efficacy on Human Cervical Cancer Cells, *Biomedicines* **2025**, *13*(8), 1861. DOI: [10.3390/biomedicines13081861](https://doi.org/10.3390/biomedicines13081861).
23. Moldoveanu, CA; Tomoaia-Cotisel, M; Sevastre-Berghian, A; Tomoaia, G; Mocanu, A; Pal-Racz, C; Toma, VA; Roman, I; **Ujica, MA**; Pop, LC, A Review on Current Aspects of Curcumin-Based Effects in Relation to Neurodegenerative, Neuroinflammatory and Cerebrovascular Diseases, *Molecules* **2025**, *30*(1), 43. DOI: [10.3390/molecules30010043](https://doi.org/10.3390/molecules30010043)
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- and computational studies, *Materials Today Communications* **2025**, *46*, 112739. DOI: [10.1016/j.mtcomm.2025.112739](https://doi.org/10.1016/j.mtcomm.2025.112739).
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 27. Richter, S.; Lönnecke, P.; Bovan, D.; Andrian, N.; **Stoean, B.**; **Lehene, M.**; Silaghi-Dumitrescu, R.; Gaina, L.; Mijatović, S.; Maksimović-Ivanić, D.; Kaluđerović, G.N.; Hey-Hawkins, E., Platinum(II/IV) complexes with N-substituted carboxylate ethylenediamine/propylenediamine ligands: preparation, characterization and in vitro activity, *Dalton Transactions* **2025**, *54* (9), 3597. DOI: [10.1039/D4DT03041A](https://doi.org/10.1039/D4DT03041A)
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