

## Lista publicații doctoranzi ȘDC în perioada 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)
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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

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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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