

**Radu Silaghi-Dumitrescu, lista articolelor publicate (numerotarea menținută din lista original de lucrări, ilustrând astfel ordinea publicării):**

a) 10 lucrări conform OM 5691:

**89. Silaghi-Dumitrescu, Radu. High-valent metalloporphyrins in hydrocarbon activation: metal(V)-oxo or metal(V)-hydroxo?** New Journal of Chemistry, 2010, 34(9), 1830-1833 .

**86. Silaghi-Dumitrescu, Radu; Makarov, Sergei V. A computational analysis of electromerism in hemoprotein Fe(II) models,** Journal of Biological Inorganic Chemistry, 2010, 15(6), 977-986.

**72. Silaghi-Dumitrescu, Radu. Superoxide interaction with nickel and iron superoxide dismutases,** Journal of Molecular Graphics and Modelling 2009, 28(2), 156-61.

**81. Silaghi-Dumitrescu, Radu; Makarov, Sergei V. Hydrocarbon oxygenation by metal-nitrite adducts: a theoretical comparison with ferryl-based oxygenation agents,** European Journal of Inorganic Chemistry, 2010, 39(6):1464-6.

**80. Mot, Augustin; Kis, Zoltan; Svistunenko, Dimitri A.; Damian, Grigore; Makarov, Sergei V.; Silaghi-Dumitrescu, Radu. 'Super-reduced' iron under physiologically-relevant conditions,** Dalton Transactions, 2010, 39(6):1464-6.

**65. Silaghi-Dumitrescu, Radu. Halide activation by heme peroxidases: theoretical predictions on putative adducts of halides with Compound I** European Journal of Inorganic Chemistry, 2008, 5404-5407.

**49. Silaghi-Dumitrescu, Radu; Reeder, Brandon; Nicholls, Peter; Cooper, Chris E.; Wilson, Michael T. Ferryl haem protonation gates peroxidatic reactivity in globins.** Biochemical Journal 2007, 403, 391–395.

**41. Silaghi-Dumitrescu, Radu; Copper-containing nitrite reductase: a DFT study of nitrite and nitric oxide adducts.** Journal of Inorganic Biochemistry 2006, 100(3), 396-402.

**40. Silaghi-Dumitrescu, Radu; Silaghi-Dumitrescu, Ioan; DFT and the electromerism in complexes of iron with diatomic ligands.** Journal of Inorganic Biochemistry 2006, 100(1), 161-166.

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b) Teze de doctorat

Non-heme iron proteins involved in oxidative and nitrosative stress defense – University of Georgia, Athens, GA, 2004 – prof. Donald M. Kurtz, Jr.

Activarea unor molecule mici de către hemoproteine și sisteme înrudite – Universitatea “Babeș-Bolyai”, Cluj-Napoca 2005 – prof. Ionel Haiduc

c) Brevete

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d) Cărți și capitole de cărți

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2. Radu Silaghi-Dumitrescu, **Bonding in biologically-relevant high-valent iron centers**, in „Quantum Frontiers of Atoms and Molecules”, Ed. Mihai V. Putz, NOVA Publishing Inc. (New York), 22pp

3. Radu Silaghi-Dumitrescu, **Metalele in sistemele vii**, 2011, Presa Universitara Clujeana, Cluj-Napoca.

4. Radu Ghinga, Iulia Ghinga, Radu Silaghi-Dumitrescu, **Notiuni de baza in chimia organica**, 2012, Presa Universitara Clujeana, Cluj-Napoca.

5. Radu Silaghi-Dumitrescu, Luminita Silaghi-Dumitrescu, **On binary logic in Chemistry and beyond**, in “On psychology and beyond”, Ed. Enikö Batiz, 2012, Presa Universitara Clujeana, Cluj-Napoca

e) Articole în “fluxul științific principal” (definit aici de autor în mod subiectiv)

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114. Mot, Augustin C.; Syrbu, Sergei A.; Makarov, Sergei V.; Damian, Grigore; **Silaghi-Dumitrescu, Radu. Axial ligation in water-soluble copper porphyrinates: contrasts between EPR and UV-vis.** Inorganic Chemistry Communications 2012, 18(4), 1-3.

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f) Articole în conferințe

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g) altele

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