

(Pentru următoarele cadre didactice se adaugă Anexele 5.2, 5.3. etc.)

Universitatea “Babeş-Bolyai”
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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Studii de structură și dinamică moleculară a unor complecși adsorbiți pe suprafețe poroase - 1997

B. Cărți și capitole în cărți publicate în ultimii 10 anii

1. **Grigore Damian**, Curs de fizica nucleară , Ed. University Babes-Bolyai, Cluj-Napoca, 2009
2. Augustin C. Mot, Cristina Bischin, **Grigore Damian**, Radu Silaghi-Dumitrescu, *Antioxidant Activity Evaluation Involving Hemoglobin-Related Free Radical Reactivity*, in „Advanced Protocols in Oxidative Stress III”, Donald Armstrong (Ed.), Methods in Molecular Biology, Volume 1208, 2015, pp 247-255, ISBN: 978-1-4939-1440-1

Lucrări indexate ISI/BDI publicate în ultimii 10 anii

1. A Simion, S Simon, C Filip, M Mureșan-Pop, A Vulpoi, DM Petrișor, G Damian, M Vasilescu, M Todea, Local structural effects of Gd³⁺ ions incorporation in shell of nanostructured silica core–alumina rich shell microspheres, *Journal of Molecular Structure*, **2023**, vol. 1284, DOI: 10.1016/j.molstruc.2023.135381
2. Cristian Lujerdean, Marius Zahan, Daniel Severus Dezmirean, Razvan Stefan, Dorina Simedru, **Grigore Damian** and Nicoleta Simona Vedeanu, In Vitro Studies Demonstrate Antitumor Activity of Vanadium Ions from a CaO-P₂O₅-CaF₂:V₂O₅ Glass System in Human Cancer Cell Lines A375, A2780, and Caco-2, *Int. J. Mol. Sci.* **2023**, 24, 1149. <https://doi.org/10.3390/ijms24021149>
3. Vlad Bîrlea, Dina Mariana Petrișor, **Grigore Damian**, Effect of gamma radiation on some dosimetric interest compounds: an epr study, *STUDIA UBB CHEMIA*, LXVII, 3, **2022** (p. 109-116), DOI:10.24193/subbchem.2022.3.08
4. Nicoleta Simona Vedeanu, Cristian Lujerdean, Marius Zăhan, Daniel Severus Dezmirean, Lucian Barbu-Tudoran, **Grigore Damian**, Răzvan Ștefan, Synthesis and Structural Characterization of CaO-P₂O₅-CaF₂:CuO Glasses with Antitumoral Effect on Skin Cancer Cells, *Materials*, 15, 1526, **2022**, <https://doi.org/10.3390/ma15041526>
5. M. Todea, V. Simon, M. Muresan-Pop, A. Vulpoi, M.M. Rusu, A. Simion, M. Vasilescu, **G. Damian**, D.M. Petrisor, S. Simon, Silica-based microspheres with aluminum-iron oxide shell for diagnosis and cancer treatment, *Journal of Molecular Structure*, Volume 1246, 131149,

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6. D.M. Petrișor, **G.Damian**, S. Simon, EPR testing of organic versus conventional musaceae fruits, *Studia Universitatis Babes-Bolyai, Physica*, Vol. 65 Issue 1-2, p49-56, 2020
7. Silaghi-Dumitrescu, R., Gruian, C., Puscas, C., Simon, A., Fisher-Fodor, E.c Toma, V.A., Farcas, A., Roman, I., Scurtu, V.-F., Attia, A.A.A., **Damian, G.**, Spin labelled hemoglobin-based oxygen carriers (Hboc): Preparation and evaluation of in vivo / in vitro stability, *Studia Universitatis Babes-Bolyai Chemia*, 65(2), pp. 121-132, 2020
8. Augustin C. Mot ,Cristina Coman,Niculina Hadade,**Grigore Damian**,Radu Silaghi-Dumitrescu,Hendrik Heering, “Yellow” laccase from *Sclerotinia sclerotiorum* is a blue laccase that enhances its substrate affinity by forming a reversible tyrosyl-product adduct, *PLOS ONE* | <https://doi.org/10.1371/journal.pone.0225530>, January 21, 2020
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10. Vlad Al. Toma, Anca D. Farcas, Ioana Roman, Bogdan Sevastre , Denisa Hathazi , Florina Scurtu, Grigore Damian, Radu Silaghi-Dumitrescu, In vivo evaluation of hemerythrin-based oxygen carriers: Similarities with hemoglobin-based counterparts, *International Journal of Biological Macromolecules* 107 (2018) 1422–1427
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13. **Damian, G.**, Andreea, T., Irina Anca, P., Dorina Emilia, C., Electron Paramagnetic Resonance investigations of ultraviolet irradiated prednisone, 6th IEEE International Conference on E-Health and Bioengineering, EHB 2017, Article number 7995529, Pages 737-740
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18. Kakes, M., Cioloboc, D., Tomsa, A.-R., Silaghi-Dumitrescu, R.,**Damian, G.**, (2015), Redox and ligand binding reactivity in iron and chromium - Substituted polyoxometalates , *Revue*

Roumaine de Chimie, 60 (7-8), pp. 707-720

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21. Denisa Hathazi, Sonia Diana Mahuț, Florina-Violeta Scurtu, Cristina Bischin, Corina Stanciu, Amr Ali Attia, **Grigore Damian**, Radu Silaghi-Dumitrescu, (2014), Involvement of ferryl in the reaction between nitrite and the oxy forms of globins, *JBIC Journal of Biological Inorganic Chemistry*, 19(7), 1233-1239
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23. Laurian Vlase, Daniela Benedec, Daniela Hanganu, **Grigore Damian**, Ioan Csillag, Bogdan Sevastre, Augustin C. Mot, Radu Silaghi-Dumitrescu and Ioan Tilea (2014), Evaluation of Antioxidant and Antimicrobial Activities and Phenolic Profile for *Hyssopus officinalis*, *Ocimum basilicum* and *Teucrium chamaedrys*, *Molecules*, 19(5), 5490-5507; doi:10.3390/molecules19055490
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26. Luiza Găină, Ioana Torje, Emese Gal, Alexandru Lupan, Cristina Bischin, Radu Silaghi-Dumitrescu, **Grigore Damian**, Peter Lönnecke, Castelia Cristea, Luminița Silaghi-Dumitrescu, (2014) Microwave assisted synthesis, photophysical and redox properties of (phenothiazinyl)vinyl-pyridinium dyes, *Dyes and Pigments*, 102, 315-325, DOI:10.1016/j.dyepig.2013.10.044
27. Augustin Cătălin Moț, Cristina Coman, Carmen Miron, **Grigore Damian**, Costel, Sarbu, Radu Silaghi-Dumitrescu (2014), An assay for pro-oxidant reactivity based on phenoxyl radicals generated by Laccase, *Food Chemistry*, 143, 214-222, <http://dx.doi.org/10.1016/j.foodchem.2013.07.128>

Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

Selecție cu maximum 20 lucrări în volume de conferințe

1. M. Todica, L. Udrescu, G. Damian and S. Astilean, Spectroscopic investigation of pva-TiO₂ membranes gamma irradiated, 31st European Congress on Molecular Spectroscopy 26 - 31 August, 2012, Cluj-Napoca, Romania

2. C. Ivascu, G. Damian, L. Dărăban, I. Ardelean, O. Cozar, Spectroscopic investigation of p2o5-CdO-Li2O glass system – as esr dosimeter material, 31st European Congress on Molecular Spectroscopy 26 - 31 August, 2012, Cluj-Napoca, Romania
3. A. Mot, R. Silaghi-Dumitrescu, L. Bolojan and G. Damian, EPR study of quercetin radicals produced by laccase, 31st European Congress on Molecular Spectroscopy 26 - 31 August, 2012, Cluj-Napoca, Romania
4. A. Bensouici, M. Ayadi, M. Iosin, G. Damian, J. L. Plaza;S. Astilean, M. Sebais, 15th International Conference on Transparent Optical Networks, June 23-27, 2013- Cartagena(Spain)
5. Scurtu Violeta - Florina, Hathazi Denisa, Mot Augustin - Catalin, Fischer-Fodor Eva, Damian Grigore, Kurtz Donald M., Jr., Toma Vlad Alexandru, Farcas Anca, Roman Ioana, Silaghi-Dumitrescu Radu Lucian, *Hemoglobin and hemerythrin based blood substitutes*, 12th European Biological Inorganic Chemistry Conference (EuroBIC), 2014, SPRINGER, 233 SPRING ST, NEW YORK, NY 10013 USA, Pgs: 848 – 849
6. Puscas Cristina - Maria, Silaghi-Dumitrescu Radu Lucian, Damian Grigore, Mot Augustin - Catalin, *Direct detection of free radicals in polyphenols and correlation with antioxidant capacity*, , RSBMB International Conference, 2015, pgs. 76 - 76, 2015
7. Scurtu Violeta - Florina, Hathazi Denisa, Mahut Sonia, Cioloboc Daniela, Puscas Cristina - Maria, Damian Grigore, Svistunenکو Dimitri, Cooper Chris E, Silaghi-Dumitrescu Radu Lucian, *Nitrite and nitric oxide reactions with globins: mechanism and applications* , ISBS2015 - Towards Novel Blood Transfusion Therapies, pg. 21 – 21, 2015
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9. Cezara Zăgrean-Tuza, Adrian M. V. Brânzanic, Grigore Damian, Augustin C. Moț, Radu Silaghi-Dumitrescu, The secret life of a truncated hemoglobin from a Thaliana, A XXXVI-a CONFERINȚĂ NAȚIONALĂ DE CHIMIE –CNChim-2022,CĂLIMĂNEȘTI – CĂCIULATA

C. Brevete obținute în întreaga activitate

Data:

04.05.2023

Semnătura:

