

Listă de lucrări

Titlul tezei

"N,N'- and N,O-chelated pnictogenium cations (P, As, Sb) and germynes: syntheses, structural studies and reactivity"/
"Cationi pnictogenium (P, As, Sb) N,N'- și N,O chelatați și germilene: sinteză, studii structurale și reactivitate"
Cotutelă între: Université Paul Sabatier, Toulouse, France și "Babes-Bolyai" University of Cluj-Napoca, Romania, The Faculty of Chemistry and Chemical Engineering

Capitol de carte

P. Lianos, S. Sfaelou, **L.-C. Pop**, book title Photocatalysis: Fundamentals and Perspectives (Series RSC Energy and Environment Series), chapter title **Photocatalysis and Photoelectrocatalysis for Energy Generation Using PhotoFuelCells** published by The Royal Society of Chemistry (2016)

Publicații (peer reviewed articles)

1. **L.-C. Pop**, N. Katir, A. Castel, L. Silaghi-Dumitrescu, F. Delpech, I. Silaghi-Dumitrescu, H. Gornitzka, D. MacLeod-Carey, N. Saffon, N,N' and N,O chelated phosphoniumcations containing aminotroponimate or aminotroponate units; Journal of Organometallic Chemistry (2009), 694(9-10), 1562-1566 (IF 2014 - 2.173, 5-Year IF: 2.056)
2. **L.-C. Pop**, D. MacLeod-Carey, A. Munoz-Castro, L. Silaghi-Dumitrescu, A. Castel, R. Arratia-Perez, Relativistic Calculations of Aminotroponimate complexes containing group 15 (P, As, Sb, Bi) elements; Polyhedron (2011), 30, 841-845 (IF 2014 - 2.011, 5-Year IF: 1.952)
3. **L.-C. Pop**, A. Castel, L. Silaghi-Dumitrescu, N. Saffon, Aminotroponimate and aminotroponate complexes of group 15 (P, As) elements: syntheses, X-ray diffraction analyses and reactivity; European Journal of Inorganic Chemistry, (2011), 22, 3357-3364 (IF 2014 - 2.942, 5-Year IF: -)
4. **L.-C. Pop**, M. Preite, J. Manuel Manriquez, A. Vega, I. Chavez, 1,1':4',1''-Terphenyl-2',5'-dicarboxylic acid dimethyl sulfoxide-d₆disolvate; Acta Crystallographica Section E, (2012), E68, o1192 (IF 2011 - 0.347, 5-Year IF: 0.409)
5. M. Rusu, A. Radu, I. J. Hidi, A. Vulpoi, **L. Pop**, V. Danciu, L. Baia, M. Baia, Morpho-structural analysis of porous TiO₂-WO₃ aerogels; Asian Chemistry Letters, (2012), 16(3), 00-00
6. Zs. Pap, E. Karácsonyi, L. Baia, **L.-C. Pop**, V. Danciu, K. Hernádi, K. Mogyorósi, A. Dombi, TiO₂/WO₃/Au/MWCNT composite materials for photocatalytic hydrogen production: Advantages and draw-backs; Physica Status Solidi B, (2012), 12, 2592-2595 (IF 2014 - 1.470, 5-Year IF: 1.449)
7. E. Karácsonyi, L. Baia, A. Dombi, V. Danciu, K. Mogyorósi, **L.-C. Pop**, G. Kovács, V. Coșoveanu, A. Vulpoi, S. Simon, Zs. Pap, The photocatalytic activity of TiO₂/WO₃/noble metal (Au or Pt) nanoarchitectures obtained by selective photodeposition; Catalysis Today, (2013), 208, 19-27 (IF 2014 - 3.893, 5-Year IF: 4.030)
8. **L.-C. Pop**, N. Kurokawa, H. Ebata, K. Tomizawa, T. Tajima, M. Ikeda, M. Yoshioka, M. Biesemans, R. Willem, M. Minoura, M. Saito, Synthesis and Structures of Monomeric Group 14 Triols and their Reactivity; Canadian Journal of Chemistry, (2014), 92(6), 542-548 (IF 2014 - 1.061, 5-Year IF: 1.130)

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9. **L.-C. Pop**, L. Sygellou, V. Dracopoulos, K. S. Andrikopoulos, S. Sfaelou, P. Lianos, One-step electrodeposition of CdSe on nanoparticulatetitania films and their use as sensitized photoanodes for photoelectrochemical hydrogen production; Catalysis Today, (2015), 252, 157-161 (IF 2014 - 3.893, 5-Year IF: 4.030)
10. **L.-C. Pop**, S. Sfaelou, P. Lianos, Cation adsorption by mesoporoustitaniaphotoanodes and its effect on the current-voltage characteristics of photoelectrochemical cells; Electrochimica Acta, (2015), 156, 223–227 (IF 2014 - 4.504, 5-Year IF: 4.578)
11. **L.-C. Pop**, V. Dracopoulos, P. Lianos, Photoelectrocatalytic hydrogen production using nanoparticulatetitania and a novel Pt/Carbon electrocatalyst: The concept of the "Photoelectrocatalytic Leaf"; Applied Surface Science, (2015), 333, 147–151 (IF 2014 - 2.711, 5-Year IF: 2.735)
12. **L.-C. Pop**, I. Tantis, P. Lianos, Photoelectrocatalytic hydrogen production using nitrogen containing water soluble wastes; International Journal of Hydrogen Energy, (2015), 40, 8304–8310 (IF 2014 - 3.313, 5-Year IF: 3.659)
13. **L.-C. Pop**, M. Saito, Serendipitous Reactions Involving a Silicone Grease; Coordination Chemistry Reviews, (2016), 314, 64–70 (IF 2014 - 12.239, 5-Year IF: 13.174)
14. O. Monfort, **L.-C. Pop**, S. Sfaelou, T. Plecenik, T. Roch, V. Dracopoulos, E. Stathatos, G. Plesch, P. Lianos, Photoelectrocatalytic hydrogen production by water splitting using BiVO₄ photoanode, Chemical Engineering Journal, (2016), 286, 91–97 (IF 2014 – 4.321, 5-Year IF: 4.621)
15. S. Sfaelou, **L.-C. Pop**, O. Monfort, V. Dracopoulos, P. Lianos, Mesoporous WO₃ photoanodes for hydrogen production by water splitting and PhotoFuelCell operation, International Journal of Hydrogen Energy, (2016), 41, 5902–5907 (IF 2014 - 3.313, 5-Year IF: 3.659)

Alte lucrări – prezentări orale și postere la conferințe naționale și internaționale

1. April 8-10 2005 Oral presentation at 2nd edition of the International Conference "Students for Students", Cluj-Napoca, Romania
2. June 6-8 2007 Poster "Cations phosphores a ligand aminotroponate et aminotroponimate" at "4^{ème} Conférence Internationale de Chimie Toulouse-Kiev"
3. October 1-3 2007 Participation at the Workshop: "Intensive Lecture Course" at the Sts. Cyril and Methodius University, Skopje, Macedonia
4. October 4-6 2007 Oral presentation at 7th "Congress of Pure and Applied Chemistry of Students of Macedonia" (with international participation), title of the presentation "Phosphorus cations with aminotroponate and aminotroponimate ligands", Skopje, Macedonia
5. Novembre 28 2008 Poster "Bis-germylènes pontés à ligand aminotroponimate et aminotroponate" at "18^{ème} Journée Chimie Grand Sud-Ouest" France, Toulouse
6. Novembre 13 2009 Poster "Cationsphosphores et arsenie a ligand aminotroponimate" at Journée GSO, Société Chimique de France, Toulouse
7. May 28 2010 Poster "Phosphenium and arsenium cations supported by aminotroponimate or aminotroponate ligands" at Molecular Modeling in Chemistry and Biochemistry, Cluj Napoca, Romania

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8. July 11-15 2010 Poster "Phosphonium and arsenium cations supported by aminotroponimate or aminotroponate ligands" at 1st EuroPhos organized by the European Phosphorus Sciences Network (PhoSciNet), Wrocław, Poland
9. 3-10 March 2012 Poster "TiO₂/WO₃/Au/CNT composite materials for photocatalytic hydrogen production" at The 26th International Winterschool on Electronic Properties of Novel Materials (IWEPM), Kirchberg, Austria
10. 14-18 May 2012 Poster "TiO₂/WO₃/noble metal (Au or Pt) nanoarchitectures for photocatalytic hydrogen production. "Start building elegantly your nanostructures"" at EMRS 2012 Spring Meeting, Strasbourg, France
11. 24-27 October 2012 Poster "Noble metal deposited TiO₂/WO₃ composite photocatalysts for oxalic acid degradation and hydrogen production: the role of the localization of the gold or platinum nanoparticles" at 5th Szeged International Workshop on Advances in Nanoscience, Szeged, Hungary
12. June 20-22 2012 Poster "Noble metal deposited TiO₂/WO₃ composite photocatalysts for hydrogen production: the role of the localization of the gold or platinum nanoparticle" at The Energy & Materials Research Conference, Spain
13. August 1-3 2012 Oral presentation at 47th "Summer seminar for young organic chemists", Okayama, Japan, title of the presentation "N,N'- and N,O-chelated pnictogenium cations (P, As, Sb): syntheses, structural studies and reactivity"
14. 26-31 August 2012 Poster "Structural properties of TiO₂/WO₃/Noble metal bases systems by spectroscopic investigations" at 31st European Congress on Molecular Spectroscopy, Cluj-Napoca, Romania
15. March 22-25 2013 Oral presentation at 93rd "Spring Annual Meeting" organized by Chemical Society of Japan, title of the presentation "Synthesis and Structure of Lithiostannane Bearing a Bulky Ligand and its Unusual Reactivity", Kyoto, Japan
16. 27-31 May 2013 Poster "Structural properties of TiO₂/WO₃/noble metal based systems - "From structure to degradation intermediates"" at EMRS 2013 Spring Meeting, Strasbourg, France
17. June 23-27 2013 Poster "Correlation of the TiO₂/WO₃/Au composites' structure with phenol photodegradation intermediates" at Fourth International Conference on Semiconductor Photochemistry, Prague, Czech Republic
18. December 9-12 2014 Poster "One step electrodeposition of cadmium selenide on titania photoanode and its applications to photoelectrochemical hydrogen production" at Euro-mediterranean hydrogen technologies conference, Taormina, Italy
19. March 10-13 2015 Poster "Hydrogen production by photoelectrochemical procedures using PhotoFuelCells" at International Conference on Light Driven Water Splitting Using Semiconductor Based Devices, Mallorca, Spain
20. October 21-24 2015 Poster "Photoelectrocatalytic hydrogen production using nitrogen containing water soluble wastes" at 4th European Conference on Environmental applications of Advanced Oxidation Processes, Athens, Greece
21. October 21-24 2015 Poster "Visible light responsive BiVO₄ photoanodes for hydrogen production" at 4th European Conference on Environmental applications of Advanced Oxidation Processes, Athens, Greece
22. June 26-30 2016 Poster "Preparation of TiO₂/WO₃ composite photocatalysts by adjusting the semiconductors' surface charge" 5th International Conference from Nanoparticles and Nanomaterials to Nanodevices and Nanosystems (IC4N), Porto Heli, Greece
23. July 7-9 2016 Poster "Photocatalytic activity of the composites based on TiO₂-WO₃ -noble metals" at 16th International Balkan Workshop on Applied Physics and Materials Science, Constanta, Romania

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