

LISTA DE LUCRĂRI

Conf.dr.ing **Alina Marieta. SIMION**

A. Reviste cotate ISI

1. Cristian Simion, Yoshiharu Mitoma, Yumi Katayama, **Alina Marieta Simion**, “Reduction of α,β -unsaturated carbonyl compounds and 1, 3-diketones in aqueous media, using a Raney Ni-Al alloy”, *Revue Roumaine de Chimie*, **2020**, 65(1), 51-55. WOS:000548815700005
2. Adina Mirela Anton, Carla-Cezarina Pădurețu, Cosmina Andreea Marin, **Alina-Marieta Simion**, Cristian Simion, Francois Kajzar, Ileana Rău, “Photoresponsive natural materials”, *Molecular Crystals and Liquid Crystals*, **2019**, 695(1), 37-44 WOS:000532585800005
3. Adina-Mirela Anton, Ileana Rau, Francois Kajzar, **Alina-Marieta Simion**, Cristian Simion, “Third order nonlinear optical properties of DNA-based biopolymers thin films doped with selected natural chromophores”, *Optical Materials*, **2019**, 88, 181-186. WOS:000461001600026
4. Yumi Katayama, **Alina M. Simion**, Yoshiharu Mitoma, Daiki Yokoyama, Mitsuru Aoyagi, Hiroyuki Harada, Cristian Simion, “Reductive approach in the degradation of phenols with zero-valent iron in aqueous media”, *Environmental Progress and Sustainable Energy*, **2019**, 38(2), 483-488. WOS:000462079900020
5. Adina-Mirela Anton, Ileana Rau, Francois Kajzar, **Alina-Marieta Simion**, Cristian Pirvu, Nicoleta Radu, Cristian Simion, “Natural materials with enhanced optical damage threshold”, *Optical Materials*, **2018**, 86, 1-6. WOS:000453499500001
6. Yumi Katayama, Mitsuru Aoyagi, Takuya Matsumoto, Hiroyuki Harada, **Alina M. Simion**, Naoyoshi Egashira, Yoshiharu Mitoma, Cristian Simion, “Hydrodehalogenation of hexachloro- and hexabromobenzene by metallic calcium in ethanol, in the presence of Rh/C catalyst”, *Environmental Science and Pollution Research*, **2017**, 24(1), 591-597. WOS:000392105700056
7. Yoshiharu Mitoma, Yumi Katayama, **Alina M. Simion**, Hiroyuji Harada, Mitsunori Kakeda, Naoyoahi Egashira, Cristian Simion, Considerations on the mechanism of Ca/ethanol/Pd/C assisted hydrodechlorination of chlorinated aromatic substrates, *Chemosphere*, **2016**, 164, 92-97 WOS:000385318200012
8. Yoshiharu Mitoma, **Alina M. Simion**, Srinivasa Reddy Mallampati, Hideaki Miyata, Mitsunori Kakeda, Cristian Simion, “Hydrodechlorination of PCDD/PCDF/PCB contaminants by simple grinding of contaminated soils with a nano-size calcium reagent”, *Environmental Progress and Sustainable Energy*, **2016**, 35(1), 34–40; doi: 10.1002/ep.12183 WOS:000368696100004
9. Cristian Simion, Dragoș Gherase, Sergiu Sima, **Alina Marieta Simion**, “Serendipitous synthesis of a cyclic formamidine. Application to the synthesis of polyazamacrocycles”, *Comptes Rendus Chimie*, **2015**, 18(6), 611-613
10. Cristian Simion, Alina Culetu, **Alina Marieta Simion**, “A Study of Aminoacid Esterification with Nonanol”, *Letters in Organic Chemistry*, **2013**, 10(6), 385-388. ISSN: 1570-1786

11. **Alina-Marieta Simion**, Takashi Arimura, Cristian Simion, "Reaction of cinnamaldehyde and derivatives with Raney Ni–Al alloy and Al powder in water. Reduction or oxido-reduction?", *Comptes Rendus Chimie*, **2013**, *16*, 476-481. ISSN: 1631-0748
12. **Alina Marieta Simion**, Hideaki Miyata, Mitsunori Kakeda, Naoyoshi Egashira, Yoshiharu Mitoma, Cristian Simion, "Direct and complete cleansing of transformer oil contaminated by PCBs", *Separation and Purification Technology*, **2013**, *103*, 267-272. ISSN: 1383-5866
13. **Alina M. Simion**, Mitsunori Kakeda, Naoyoshi Egashira, Yoshiharu Mitoma, Cristian Simion, "A direct method for the decontamination of a fly ash amended wet soil, artificially polluted with dioxins", *Central European Journal of Chemistry*, **2012**, *10(5)*, 1547-1555. ISSN: 1895-1066
14. **Alina M. Simion**, Iwao Hashimoto, Yoshiharu Mitoma, Naoyoshi Egashira, Cristian Simion, "O-acylation of substituted phenols with various alkanoyl chlorides under phase-transfer catalyst conditions", *Synthetic Communications*, **2012**, *42(6)*, 921-931. ISSN: 0039-7911
15. Yoshiharu Mitoma, Hideaki Miyata, Naoyoshi Egashira, **Alina Marieta Simion**, Mitsunori Kakeda, Cristian Simion, "Mechanochemical degradation of chlorinated contaminants in fly ash with a calcium-based degradation reagent", *Chemosphere*, **2011**, *83*, 1326–1330; ISSN: 0045-6535.
16. Simion Cristian, Hashimoto Iwao, Mitoma Yoshiharu, **Simion Alina Marieta**, Egashira Naoyoshi, "Rapid and convenient thioester synthesis under phase-transfer catalysis conditions", *Phosphorus, Sulfur, and Silicon and the Related Elements*, **2010**, *185(12)*, 2480-2488; ISSN: 1042-6507
17. Cristian Simion, **Alina M. Simion**, Takashi Arimura, Akira Miyazawa, Masashi Tashiro, "Convenient direct reductive amination of carbonyl compounds in a completely aqueous media", *Letters in Organic Chemistry*, **2010**, *7*, 388-391; ISSN: 1570-1786.
18. Yoshiharu Mitoma, Mitsunori Kakeda, **Alina Marieta Simion**, Naoyoshi Egashira, Cristian Simion, "Metallic Ca–Rh/C-Methanol, a high-performing system for the hydrodechlorination/ring reduction of mono- and poly chlorinated aromatic substrates", *Environmental Science and Technology*, **2009**, *43 (15)*, 5952-5958. ISSN: 0013-936X
19. **Alina Marieta Simion**, Takashi Arimura, Akira Miyazawa, Cristian Simion, G.K. Surya Prakash, George A. Olah, Masashi Tashiro, "Formation of secondary or tertiary aliphatic amines in aqueous media", *Synthetic Communications*, **2009**, *39(16)*, 2859-2865. ISSN: 0039-7911
20. Daniela Istrati, Luminita Parvulescu, Angela Popescu, Dan Mihaiescu, Constantin Draghici, George Marton, **Alina Simion**, "Flow-vacuum pyrolysis of polycyclic compounds. 24¹. Pyrolysis of two dibenzocycloalkanols and their corresponding acetates.", *Revue Roumaine de Chimie*, **2006**, *51(7-8)*, 589-599. ISSN: 0035-3930
21. **Alina Simion**, Constantin Draghici, Iosif Schiketanz, George Marton and Mircea D. Banciu "Flow-vacuum pyrolysis of *cis*-4b,5,9b,10-tetrahydroindeno[2,1-*a*]indene-5,10-diol and *cis*-4b,5,9b,10-tetrahydroindeno[2,1-*a*]indene-5,10-dione", *Journal of Analytical and Applied Pyrolysis*, **2006**, *75*, 97-103. WOS:000235504900006 ISSN: 0165-2370
22. Iwao Hashimoto, Takatoshi Kawaji, Yoshiharu Mitoma, Cristian Simion, **Alina Simion**, Keiko Ishimoto, G. Surya Prakash, George A. Olah si Masashi Tashiro, "O-Acylation mechanism of *p*-substituted phenols with various alkanoyl chlorides under phase transfer catalysis conditions", *Revue Roumaine de Chimie*, **2004**, *48(2)*, 149-155. ISSN: 0035-3930

23. Yoshiharu Mitoma, Satoko Nagashima, Cristian Simion, **Alina Simion**, Tomoko Yamada, Keisuke Mimura, Keiko Ishimoto, Masashi Tashiro, "Dehalogenation of aromatic halides using metallic calcium in ethanol", *Environmental Science and Technology*, **2001**, 35, 4145-4148. ISSN: 0013-936X
24. **Alina Simion**, Cristian Simion, Tadeshige Kanda, Satoko Nagashima, Yoshiharu Mitoma, Tomoko Yamada, Keisuke Mimura, Masashi Tashiro, "Synthesis of imines, diimines and macrocyclic diimines as possible ligands, in aqueous solution", *Journal of the Chemical Society, Perkin Transactions I*, **2001**, 17, 2071-2078. ISSN: 0300-922X
25. M.D. Banciu, L. Parvulescu, A. Banciu, **Alina Simion**, C. Costea, C. Draghici, M. Pop, D. Mihaiescu, "Flow-vacuum pyrolysis of three dibenzocycloalkanones", *Journal of Analytical and Applied Pyrolysis*, **2001**, 57, 261-274. ISSN: 0165-2370
26. Florin Iordache, Stefan A. Iordache, Ion Costea, Cristian Simion, **Alina Simion**, Dan Mihaiescu si Florin Badea, "Some new applications of phthalic anhydride in organic synthesis", *Revue Roumaine de Chimie*, **2001**, 46(8), 835-845. ISSN: 0035-3930
27. M.D. Banciu, **Alina Simion**, C. Draghici, D. Mihaiescu, I. Oprean, "Flow-vacuum pyrolysis of 5H-dibenzo[*a,d*]cyclohepten-5-one oxime and 10,11-dihydro-5H-dibenzo[*a,d*]cyclohepten-5-one oxime", *Journal of Analytical and Applied Pyrolysis*, **2000**, 53, 161-176. WOS:000084381100004 ISSN: 0165-2370
28. Cristian Simion, **Alina Simion**, Yoshiharu Mitoma, Satoko Nagashima, Takatoshi Kawaji, Iwao Hashimoto, Masashi Tashiro, "Synthesis of new dihydroxy-dioxygenated *ortho*-[2,*x*]cyclophanes", *Heterocycles*, **2000**, 53(11), 2459-2470. ISSN: 0385-5414
29. Florin Badea, Florin Iordache, Ion Costea, Stefan Iordache, Aurelia Meghea, **Alina Simion**, Cristian Simion, "Free radicals trapping reactions with 3,5-di-*t*-buthyl-nitrozobenzene. The α -nitrobenzyl free radical", *Revue Roumaine de Chimie*, **2000**, 45(4), 361-368. ISSN: 0035-3930
30. Florin Badea, Florin Iordache, Aurelia Meghea, **Alina Simion**, Ion Costea, Stefan Iordache, Cristian Simion, "Generation and trapping of free radicals from phthalhydrazide and 3-nitrophthalhydrazide", *Revue Roumaine de Chimie*, **1999**, 44(6), 585-590. ISSN: 0035-3930
31. A. Popescu, **Alina Simion**, A. Scozzafava, F. Briganti, C.T. Supuran, "Carbonic anhydrase inhibitors. Schiff bases of some aromatic sulfonamides and their metal complexes. Toward more selective inhibitors of carbonic anhydrase isozyme IV", *Journal of Enzyme Inhibition and Medicinal Chemistry*, **1999**, 14, 407-423. ISSN: 1475-6366
32. Florin Badea, Ion Costea, Ingrid Velter, **Alina Simion**, Cristian Simion, "The occurrence of 3-oxo-6-keto-cyclohexa-1,4-diene (*p*-quinoketene) during an esterification process", *Revue Roumaine de Chimie*, **1999**, 44(1), 95-99. ISSN: 0035-3930
33. Mircea D. Banciu, Angela Popescu, **Alina Simion**, Constantin Drăghici, Cristina Mangra, Dan Mihăiescu, Monica Pocol, "Flow vacuum pyrolysis of tetrazoles with annelated dibenzocycloalkane skeleton", *Journal of Analytical and Applied Pyrolysis*, **1999**, 48(2), 129-146. WOS:000078587300006, ISSN: 0165-2370
34. Florin Badea, Ion Costea, Florin Iordache, **Alina Creanga**, Cristian Simion, "Generation and trapping of 5-carbonyl-6-thioketo-1,3-cyclohexadiene", *Revue Roumaine de Chimie*, **1998**, 43(7), 675-679. ISSN: 0035-3930

35. M.D. Banciu, C. Draghici, A. Popescu, A. Banciu, **Alina Simion**, "Heterocycles with annelated dibenzocycloalcane skeletons.VII. Tetrazoles with eight- and nine membered fused rings", *Revue Roumaine de Chimie*, **1998**, 43(7), 649-660. ISSN: 0035-3930
36. C.T. Supuran, A. Scozzafava, A. Popescu, R. Bobes-Tureac, A. Banciu, **Alina Creanga**, G. Bobes-Tureac, M.D. Banciu, "Carbonic anhydrase inhibitors. Part 43. Schiff bases derived from sulfonamides: towards more specific inhibitors for membrane-bound versus cytosolic isozymes", *European Journal of Medicinal Chemistry*, **1997**, 32, 445-452. ISSN: 0223-5234
37. Florin Badea, Ion Costea, Florin Iordache, **Alina Creanga**, Cristian Simion, "Attempted synthesis of dibenzo[*a,d*]-3-carbonyl-6-keto-1,4-cyclohexadiene (anthraquino-monoketene). Are *p*-quinoketene true reaction intermediates?", *Revue Roumaine de Chimie*, **1997**, 42(9), 949-951. ISSN: 0035-3930

B. Indexate în baze de date internaționale

1. Adina-Mirela Anton, Ileana Rau, Francois Kajzar, **Alina-Marieta Simion**, Cristian Simion, "Stability studies of some dna based materials doped with natural extracts", *U.P.B. Sci. Bull., Series B, Chemistry and Materials Science*, **2019**, 81(4), 121-130
2. Cristian Simion, **Alina Marieta Simion**, "On the structure of asymmetric benzoin (an old controversy)", *U.P.B. Sci. Bull., Series B*, **2007**, 69(2), 49-57. ISSN 1454-2331
3. **Simion Alina**, Simion Cristian, Mitoma Yoshiharu, Nagashima Satoko, Tashiro Masashi, "Inter- and intramolecular condensation reactions with formation of C=N bonds, in aqueous media", *Nippon Kagakkai Koen Yokoshu*, **2001**, 79(2), 1047. ISSN:0285-7626
4. **Simion Alina**, Simion Cristian, Mitoma Yoshiharu, Nagashima Satoko, Tashiro Masashi, "Inter- and intramolecular condensation reactions with formation of C=N bonds, in aqueous media", *Nippon Kagakkai Koen Yokoshu*, **2001**, 79(2), 1047. ISSN:0285-7626
5. Yoshiharu Mitoma, Satoko Nagashima, Keiko Ishimoto, Tadeshige Kanda, **Alina Simion**, Cristian Simion, Masashi Tashiro, "Reduction using Raney alloys and zinc powder in water – application toward deuteration", *Japanese Journal of Deuterium Science*, **2000**, 9(1), 1-15. ISSN: **1343-0718**
6. M.D. Banciu, **Alina Simion**, C. Draghici, "Benzoannelated valence isomers of homoannulenes. Part V. Flow-vacuum pyrolysis of exo-2,7-methano-1H-1a,2,7,7a-tetrahydro-cyclopropa[*b*]naphthalene and 5,9-methano-5H-dihydrobenzocycloheptene", *Proc. Rom. Acad. Series B*, **1999**, 9-13
7. M.D. Stanescu, **Alina Creanga**, D. Preda, G. Gheorghe, I. Sandulescu, "Zeolites in dibenzoannelated cyclic compound transformations. I. 10-methyl and 10-phenyl-5H-dibenzo[*a,d*] cycloheptene preparation", *Progress in Catalysis*, **1994**, 3(2), 63-66