

**Universitatea Națională de Știință și Tehnologie POLITEHNICA București**  
Facultatea: de **Inginerie Chimică și Biotehnologii**  
Departamentul: **Chimie Organică „Costin Nenițescu”**  
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Gradul didactic: **Conferențiar**

## **L I S T A**

### **lucrărilor științifice în domeniul disciplinelor din postul didactic**

#### **A. Teza de doctorat**

1. “*Hidrocarburi policiclice si derivati ai acestora*”

Îndrumator: acad. **Mircea D. Banciu**, Facultatea de Chimie Industrială, Universitatea “Politehnica” București, susținută în septembrie 1999 la Universitatea “Politehnica” București

#### **B. Cărți si capitole în cărți publicate în ultimii 10 ani**

1. Cristian Simion, **Alina Simion**, “Proteinele, de la structură la nutrient”, Editura Politehnica Press, **2022**, 300p., ISBN 978-606-9608-29-6
2. Yoshiharu Mitoma, **Alina M. Simion**, Cristian Simion, Dual Soil Decontamination Procedures, Soil Contamination - Current Consequences and Further Solutions, Dr. Marcelo Larramendy (Ed.), InTech, DOI: 10.5772/65335, ISBN 978-953-51-2816-8, Print ISBN 978-953-51-2815-1, Published: **2016**, December 21

#### **C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**

1. Yusaku Imasaka, Yumi Katayama, Hiroyuki Harada, Cristian Simion, **Alina M Simion**, Yoshiharu Mitoma, Dry dechlorination of polychlorinated biphenyls in contaminated soil by using nano-sized composite of metallic Ca/CaO and its mechanism, *Chemosphere*, **2023**, *311*, 137197, WOS:000903529900003
2. **Simion Cristian**, Mitoma Yoshiharu, Katayama Yumi, Simion Alina Marieta, Reduction of alpha,beta-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.
3. Anton Adina Mirela, Padureiu Carla-Cezarina, Marin Cosmina Andreea, Simion Alina-Marieta, **Simion Cristian**, Kajzar Francois, Rau Ileana, Photoresponsive natural materials, *Molecular Crystals and Liquid Crystals*, **2019**, *695(1)*, 37-44; WOS:000532585800005
4. Katayama Yumi, Simion Alina M., Mitoma Yoshiharu, Yokoyama Daiki, Aoyagi Mitsuru, Harada Hiroyuki, **Simion Cristian**, *Environmental Progress & Sustainable Energy*, **2019**, *38(2)*, 483-488; WOS:000462079900020
5. Anton Adina-Mirela, Rau Ileana, Kajzar Francois, Simion Alina-Marieta, **Simion Cristian**, Third order nonlinear optical properties of DNA-based biopolymers thin films doped with selected natural chromophores, *Optical Materials*, **2019**, *88*, 181-186; WOS:000461001600026
6. Anton Adina Mirela, Rau Ileana, Kajzar Francois, Simion Alina-Marieta, **Simion Cristian**, Stability studies of some DNA based materials doped with natural extracts, *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science*, **2019**, *81(4)*, 12-130

7. 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
8. 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
9. 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
10. 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
11. Cristian Simion, Dragoş 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