



## LISTA DE LUCRĂRI

Dr.ing. **SIMION Cristian**

### 1. Teza de doctorat

1. “*Implication des anion 1-aza et 2-azaallyliques dans l’élaboration de charpentes cycliques azotées à cinq, six et sept chainons*” - director științific **dr. Axel Couture**, director de cercetare la C.N.R.S. și **prof. dr. Pierre Grandclaude**, profesor la Scoala Națională Superioară de Chimie din Lille, Franța, susținută în data de **27.05.1994** la Universitatea de Științe și Tehnologii din Lille

### 2. Cărți publicate:

1. **Cristian Simion**, Alina Simion, “Proteinele, de la structură la nutrient”, Editura Politehnica Press, **2022**, 300p., ISBN 978-606-9608-29-6
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4. Daniela Berger, Cezar Comănescu, Daniela Istrati, Cristian Matei, Ovidiu Oprea, Alina Simion, Cristian Simion, Stefan Tomas, Teste de Chimie, Ed. Politehnica, **2021**, 257 p., ISBN: 978-606-515-950-1
5. Alina M. Simion, Yoshiharu Mitoma, **Cristian Simion**, Biota Debromination in Aqueous Media, in “Wastewater Treatment: Cutting-Edge Molecular Tools, Techniques and Applied Aspects”, Maulin P. Shah, Angana Sarkar, Sukhendu Mandal (Eds.), Elsevier, **2021**, Ch. 7, pp. 137-185; DOI: <https://doi.org/10.1016/C2019-0-04138-6>; ISBN: 978-0-12-821881-5
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7. Yoshiharu Mitoma, Alina M. Simion, **Cristian Simion** (2016). Dual Soil Decontamination Procedures, in “Soil Contamination - Current Consequences and Further Solutions”, Dr. Marcelo Larramendy (Ed.), InTech, 2016, DOI: 10.5772/65335, ISBN 978-953-51-2816-8, Print ISBN 978-953-51-2815-1, Published: December 21, **2016**
8. Yoshiharu Mitoma, Srinivasa Reddy Mallampati, Tetsuji Okuda, **Cristian Simion**, Metal Nanoparticles: Metallic Nanoparticles Used in Soil Remediation Procedures, in “CRC Concise Encyclopedia of Nanotechnology”, Boris Ildusovich Kharisov, Oxana Vasilievna Kharissova,

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11. **Cristian Simion**, Simion Alina Marieta, Albu Horia, “Calitate și control al alimentelor”, Ed. Printech, ISBN 978-973-718-764-2, 486 p, **2007**.
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### **3. Indrumare de laborator**

1. Horia Albu, **Cristian Simion**, Alina Simion, Aida Uzun, “Controlul calității produselor alimentare”, Ed. Politehnica, 135p, **2005**.
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#### **A, Reviste cotate ISI**

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, Rau Ileana, Kajzar Francois, Simion Alina-Marieta, **Simion Cristian**, Stability studies of some dna based materials doped with natural extracts, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, **2019**, *81(4)*, 121-130; WOS:000501994100012.

4. 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
5. Katayama Yumi, Simion Alina M., Mitoma Yoshiharu, Yokoyama Daiki, Aoyagi Mitsuru, Harada Hiroyuki, **Simion Cristian**, Reductive approach in the degradation of phenols with zero-valent iron in aqueous media, *Environmental Progress & Sustainable Energy*, **2019**, 38(2), 483-488; WOS:000462079900020
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9. Srinivasa Reddy Mallampati, Byoung Ho Lee, Yoshiharu Mitoma, **Cristian Simion**, Heterogeneous nano-Fe/Ca/CaO catalytic ozonation for selective surface hydrophilization of plastics containing brominated and chlorinated flame retardants (B/CFRs): separation from automobile shredder residue by froth flotation, *Environmental Science and Pollution Research*, **2017**, 24(5), 4469–4479. WOS:000397007200019
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11. Srinivasa Reddy Mallampati, Byoung Ho Lee, Yoshiharu Mitoma, **Cristian Simion**, Selective sequential separation of ABS/HIPS and PVC from automobile and electronic waste shredder residue by hybrid nano-Fe/Ca/CaO assisted ozonisation process, *Waste Management*, **2017**, 60, 428–438. WOS:000397357100044
12. Srinivasa Reddy Mallampati, Byeong Kyu Lee, Yoshiharu Mitoma, **Cristian Simion**, Dual mechanochemical immobilization of heavy metals and decomposition of halogenated compounds in automobile shredder residue using a nano-sized metallic calcium reagent, *Environmental Science and Pollution Research*, **2016**, 23(22), 22783-22792. WOS:000387602800048 ISBN: 0944-1344
13. Srinivasa Reddy Mallampati, **Cristian Simion**, Yoshiharu Mitoma, Novel separation and immobilization of heavy metals in municipal solid waste fly ash by grinding with nano-Fe/Ca/CaO/[PO<sub>4</sub>] mixture, *Environmental Progress and Sustainable Energy*, **2016**, 35(6), 1693-1698. WOS:000393419700019

14. Yoshiharu Mitoma, Yumi Katayama, Alina M. Simion, Hiroyuki Harada, Mitsunori Kakeda, Naoyoshi Egashira, **Cristian Simion**, Considerations on on the mechanism of Ca/ethanol/Pd/C assisted hydrodechlorination of chlorinated aromatic substrates, *Chemosphere*, **2016**, 164, 92-97. WOS:000385318200012
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16. 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
17. Srinivasa Reddy Mallampati, Yoshiharu Mitoma, Tetsuji Okuda, **Cristian Simion**, Byeong Kyu Lee, Solvent-free synthesis and application of nano-Fe/Ca/CaO/[PO<sub>4</sub>] composite for dual separation and immobilization of stable and radioactive cesium in contaminated soils, *Journal of Hazardous Materials*, **2015**, 297, 74-82. WOS:000360595700010
18. Srinivasa Reddy Mallampati, Yoshiharu Mitoma, **Cristian Simion**, Byoung Ho Lee, Immobilization and volume reduction of heavy metals in municipal solid waste fly ash using nano-size calcium and iron-dispersed reagent, *Journal of the Air & Waste Management Association*, **2015**, 65(10), 1247-1255. WOS:000362721600009
19. Srinivasa Reddy Mallampati, Yoshiharu Mitoma, Tetsuji Okuda, **Cristian Simion**, Byeong Kyu Lee, Dynamic immobilization of simulated radionuclide <sup>133</sup>Cs in soil by thermal treatment/vitrification with nanometallic Ca/CaO composites, *Journal of Environmental Radioactivity*, **2015**, 139, 118-124. WOS:000347596000012, ISSN: 0265-931X
20. 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. WOS:000357703400003
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33. Yoshiharu Mitoma, Naoyoshi Egashira, **Cristian Simion**, “Highly effective degradation of polychlorinated biphenyls in soil mediated by a Ca/Rh bicatalytic system”, *Chemosphere*, **2009**, *74*, 968-973; WOS:000264182400014 ISSN: 0045-6535.
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### **B. Indexate în baze de date internaționale**

1. 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

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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
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2. Alina Marieta Simion, **Cristian Simion**, Andrada Ștefania Racovanu, Adina Ionuta Gavrila, Microwave assisted enzymatic transesterification for biodiesel production, 23rd Romanian International Conference on Chemistry and Chemical Engineering, 4-7.09.2024,
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## 7. Contracte si rapoarte stiintifice

Ca titular de contract:

1. "Sinteze de macroheterocicli cu capacitati complexante pentru metale grele", Tema 7, Cod 1471, Grant CNCSIS 2004

Ca participant:

1. "Aplicatii ale sonochimiei in studiul reactiilor radicalice si ionice", Nr. 572B, Tema A2, (la UPB 49-92-05), Contract cu MCT, **1994**.
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3. "Mecanisme de reactii alternative", Nr. 4001, Tema B36, , (la UPB 49-95-04), Contract cu MI, **1995**.
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7. "Aplicatii ale sonochimiei in studiul reactiilor radicalice si ionice", Nr. 376+381/Act aditionalar 310-24-03-97/I, Tema A55, Contract cu MCT, **1997**.
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14. "Formarea profesională a cadrelor didactice din învățământul preuniversitar pentru noi oportunități de dezvoltare în carieră" – POSDRU/57/1.3./S/32629 – Chimie
15. "Privim către viitor - Formarea profesională a cadrelor didactice pentru utilizarea resurselor informatice moderne în predarea eficientă a chimiei – e-Chimie" – POSDRU/87/1.3/S/61839.