

ANDREI-IONUȚ SIMION
Conf. univ. dr. ing. ec.

Universitatea „Vasile Alecsandri” din Bacău, Facultatea de Inginerie
Departamentul de Inginerie Chimică și Alimentară
Calea Mărășești 157, 600115, Bacău, România
Telefon: +40 234/542.411, int. 233, Fax: +40 234/580170
E-mail: asimion@ub.ro

LISTĂ LUCRĂRI RELEVANTE

1. **Simion, A.I.**, Grigoraș, C.G., Favier L., (2025), Batch Adsorption of Orange II Dye on a New Green Hydrogel – Study on Working Parameters and Process Enhancement, *Gels*, ISSN 2310-2861, **11**(1), 79.
WOS: 001403817800001, DOI: 10.3390/gels11010079, IF₂₀₂₄ = 5,3
2. Grigoraș, C.G., **Simion, A.I.***, (2024), Synthesis of a New Composite Material Derived from Cherry Stones and Sodium Alginate and its Application to the Adsorption of Methylene Blue from Aqueous Solution: Process Parameter Optimization, Kinetic Study, Equilibrium Isotherms, and Reusability, *Journal of Composites Science*, ISSN 2504-477X, **8**, 402.
WOS: 001342945600001, DOI: 10.3390/jcs8100402, IF₂₀₂₄ = 3,7
3. Grigoraș, C.G., **Simion, A.I.***, Favier L., (2023), Exploration of Reactive Black 5 Dye Desorption from Composite Hydrogel Beads – Adsorbent Reusability, Kinetic and Equilibrium Isotherms, *Gels*, ISSN 2310-2861, **9**(4) 299.
WOS: 000977481900001, DOI: 10.3390/gels9040299, IF₂₀₂₄ = 5,3
4. Grigoraș, C.G., **Simion, A.I.***, Favier L., Drob, C., Gavrilă, L. (2022), Performance of Dye Removal from Single and Binary Component Systems by Adsorption on Composite Hydrogel Beads Derived from Fruits Wastes Entrapped in Natural Polymeric Matrix, *Gels*, ISSN 2310-2861, **8**(12), 795.
WOS: 000901031500001, DOI: 10.3390/gels8120795, IF₂₀₂₄ = 5,3
5. Muntianu, G., **Simion, A.I.***, Grigoraș, C.G., Nistor, I.D., Jinescu, G., (2021), Aluminum Pillared Bentonite – Characterization and Synthesis Optimization by Response Surface Methodology, *Studia UBB Chemia*, ISSN 1224-7154, **66**(1), p. 73-88.
WOS: 000637282000007, DOI: 10.24193/subbchem.2021.1.06, IF₂₀₂₄ = 0,5
6. Favier, L., Ungureanu, C.V., **Simion, A.I.**, Bahrim, G., Vial, C., (2021), Enhancing the biodegradation efficiency of a emergent refractory water pollutant by a bacterial isolate through a statistical process optimization approach, *Process Safety and Environmental Protection*, ISSN 0957-5820, **148**, p. 1133-1145.
WOS: 000637217000092, DOI: 10.1016/j.psep.2021.02.012, IF₂₀₂₄ = 7,8
7. Grigoraș, C.G., **Simion, A.I.**, Favier, L., Gavrilă, L., (2020), Congo Red Removal from Aqueous Effluents by Adsorption on Cherry Stones Activated Carbon, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **19**(2), p. 247-254.
WOS: 000531733600007, IF₂₀₂₄ = 0,9
8. **Simion, A.I.**, Grigoraș, C.G., Favier, L., Gavrilă, L., (2019), Mathematical Modelling and Prediction of Congo Red Adsorption on Cherry Stones Activated Carbon, *Studia UBB Chemia*, ISSN 1224-7154, **64**(2), p. 139-157.
WOS: 000477816000013, DOI: 10.24193/subbchem.2019.2.12, IF₂₀₂₄ = 0,5
9. Favier, L., **Simion, A.I.**, Rusu, L., Păcală, M.L., Grigoraș, C.G., Bouzaza, A., (2015), Removal of an Organic Refractory Compound by Photocatalysis in Batch Reactor – Kinetic Studies, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **14**(6), p. 1327-1338.
WOS: 000360500200011, DOI: 10.30638/eemj.2015.144, IF₂₀₂₄ = 0,9

10. **Simion, A.I.***, Grigoraș, C.G., Chiriac, A., Tâmpu, N.C., Gavrilă, L., (2018), Mathematical Modelling for Phenolation of Spent Sulfite Liquor, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **17**(4), p. 771-781.
WOS: 000431134900003, IF₂₀₂₄ = 0,9

TEZA DE DOCTORAT

Cercetări privind metode și tehnologii de valorificare a subproduselor din industria zahărului – Impact tehnic și ecologic

Universitatea Tehnică „Gh. Asachi” Iași, Facultatea de Inginerie Chimică și Protecția Mediului „Cristofor Simionescu”, Bulevardul Prof. Dimitrie Mangeron, nr. 73, Iași, 700050, România

BREVETE DE INVENȚIE

1. *Procedeu de biodegradare anaerob pentru amestecul format din subprodusele organice industriale și produsele tip biofort organic ecologic realizate*, Nedeff, V., Ciobanu, D., Macoveanu, M., Chiriac, A., Rusu, L., **Simion, A.I.**, **R0129161-B1 C05F 5/00** (2006.01).
2. *Procedeu ecologic aerob de biodegradare a amestecului format din valorificarea subproduselor excedentare din industria lemnului și industria berii, cu produsele realizate; biofertilizatori organici ecologici*, Nedeff, V., Ciobanu, D., Macoveanu, M., Chiriac, A., Rusu, L., **Simion, A.I.**, **R0129229-B1 C05F 5/00** (2006.01).

CĂRȚI PUBLICATE

1. **Simion, A.I.**, Grigoraș, C.G., (2025), *Fenomene de transfer și operații unitare. Îndrumar de laborator. Ediția a II-a (revizuită și adăugită)*, ISBN 978-606-527-734-2, Editura Alma Mater, Bacău.
2. Grigoraș, C.G., **Simion, A.I.**, (2025), *Fenomene de transfer și operații unitare. Unități de măsură, bilanț de materiale, bilanț termic*, ISBN 978-606-527-733-5, Editura Alma Mater, Bacău.
3. **Simion, A.I.**, Grigoraș, C.G., Gavrilă, L., (2015), *Fenomene de transfer și operații unitare: îndrumar de laborator*, ISBN 978-606-527-45897-7, Editura Alma Mater, Bacău.
4. Grigoraș, C.G., **Simion, A.I.**, Gavrilă, L., (2015), *Depoluarea efluenților din industria alimentară și biotehnologii: îndrumar de laborator*, ISBN 978-606-527-457-0, Editura Alma Mater, Bacău.
5. **Simion, A.I.**, Grigoraș, C.G., (2014), *Tehnici de fabricare a produselor ecologice. Îndrumar de laborator*, ISBN 978-606-527-339-9, Editura Alma Mater, Bacău.
6. Azzouz, A., Zvolinschi A., **Simion, A.I.**, Grig I., (2001), *Utilaj și Tehnologie în Industria Laptelui. Îndrumar de laborator*, ISBN 974-8076-13-7, Casa Editorială Demiurg, Iași.

CAPITOLE DE CĂRȚI PUBLICATE

1. Rusu L., Grigoraș C.G., Suceveanu E.M., **Simion A.I.**, Dediu Botezatu A.V., Istrate B., Doroftei I. (2024): *Eco-friendly biosorbents based on microbial biomass and natural polymers: synthesis, characterization and application for the removal of drugs and dyes from aqueous solutions*, în: Munteanu, C., Doroftei, I., *Advanced Materials for Multifunctional Applications*, ISBN 978-3-7258-1539-5, MDPI AG, Basel, Switzerland.

2. **Simion, A.I.**, Hlihor, R.M., Favier, L. (2021). *Successful Use of Response Surface Methodology to Enhance the Degradation Efficiency of a Water Pollutant of Emerging Concern*. în: Ksibi, M., *et al.*, Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (2nd Edition). EMCEI 2019. Environmental Science and Engineering, ISBN 978-3-030-51209-5, Springer, Cham, Switzerland.

LUCRĂRI PUBLICATE ÎN REVISTE INDEXATE ISI

1. Grigoraș, C.G., **Simion, A.I.***, Favier L., (2026), Fruit Waste-Derived Adsorbents for Water Treatment: A Systematic Review on Performance, Mechanistic Insights and Operational Perspectives, *Clean Technology*, ISSN 2571-8797, **8**, 67.
WOS: 001801991800001, DOI: 10.3390/cleantechnol8030067, IF₂₀₂₄ = 4,7
2. **Simion, A.I.***, Grigoraș, C.G., Favier L., (2025), Batch Adsorption of Orange II Dye on a New Green Hydrogel – Study on Working Parameters and Process Enhancement, *Gels*, ISSN 2310-2861, **11**(1), 79.
WOS: 001403817800001, DOI: 10.3390/gels11010079, IF₂₀₂₄ = 5,3
3. Grigoraș, C.G., **Simion, A.I.***, (2024), Synthesis of a New Composite Material Derived from Cherry Stones and Sodium Alginate and its Application to the Adsorption of Methylene Blue from Aqueous Solution: Process Parameter Optimization, Kinetic Study, Equilibrium Isotherms, and Reusability, *Journal of Composites Science*, ISSN 2504-477X, **8**, 402.
WOS: 001342945600001, DOI: 10.3390/jcs8100402, IF₂₀₂₄ = 3,7
4. Grigoraș, C.G., **Simion, A.I.***, Drob, C. (2024), Hydrogels based on Chitosan and Nanoparticles and their suitability for dyes adsorption from aqueous media. Assessment of the last decade progresses, *Gels*, ISSN 2310-2861, **10**(3), 211.
WOS: 001191754700001, DOI: 10.3390/gels10030211, IF₂₀₂₄ = 5,3
5. Grigoraș, C.G., **Simion, A.I.***, Favier L., (2023), Exploration of Reactive Black 5 Dye Desorption from Composite Hydrogel Beads – Adsorbent Reusability, Kinetic and Equilibrium Isotherms, *Gels*, ISSN 2310-2861, **9**(4) 299.
WOS: 000977481900001, DOI: 10.3390/gels9040299, IF₂₀₂₄ = 5,3
6. Favier, L., **Simion, A.I.***, Hlihor, R.M., Fekete-Kertész, I., Molnar, M., Harja, M., Vial, C., (2023), Intensification of The Photodegradation Efficiency of an Emergent Water Pollutant Through Process Conditions Optimization by Means of Response Surface Methodology, *Journal of Environmental Management*, ISSN 0301-4797, **328**, 116928.
WOS: 000900449700001, DOI: 10.1016/j.jenvman.2022.116928, IF₂₀₂₄ = 8,1
7. Grigoraș, C.G., **Simion, A.I.***, Favier L., Drob, C., Gavrilă, L. (2022), Performance of Dye Removal from Single and Binary Component Systems by Adsorption on Composite Hydrogel Beads Derived from Fruits Wastes Entrapped in Natural Polymeric Matrix, *Gels*, ISSN 2310-2861, **8**(12), 795.
WOS: 000901031500001, DOI: 10.3390/gels8120795, IF₂₀₂₄ = 5,3
8. Rusu, L., Grigoraș, C.G., **Simion, A.I.**, Suceveanu E.M., Schnakovszky, C., Favier L. (2022), Investigation on Biosorption of Pharmaceuticals from Aqueous Solutions by Biocomposite Material Based on Microbial Bio-mass and Natural Polymer: Process Variables Optimization and Kinetic Studies, *Polymers*, ISSN 2073-4360, **14**(16), 3388.
WOS: 000845803200001, DOI: 10.3390/polym14163388, IF₂₀₂₄ = 4,9
9. Rusu, L., Grigoraș, C.G., **Simion, A.I.**, Suceveanu E.M., Istrate, B., Harja M. (2022), Biosorption Potential of Microbial and Residual Biomass of *Saccharomyces pastorianus* Immobilized in Calcium Alginate Matrix for Pharmaceuticals Removal from Aqueous Solutions, *Polymers*, ISSN 2073-4360, **14**(1), 2855.
WOS: 000832305000001, DOI: 10.3390/polym14142855, IF₂₀₂₄ = 4,9
10. Rusu, L., Grigoraș, C.G., **Simion, A.I.**, Suceveanu E.M., Dediu Botezatu, A.V., Harja M. (2022), Biosorptive Removal of Ethacridine Lactate from Aqueous Solutions by *Saccharomyces pastorianus* Residual Biomass/Calcium Alginate Composite Beads: Fixed-bed Column Study, *Materials*, ISSN 1996-1944, **15**(13), 4657.

- WOS: 000824208600001, DOI: 10.3390/ma15134657, IF₂₀₂₄ = 3,2
11. Rusu, L., Grigoraş, C.G., **Simion, A.I.**, Suceveanu E.M., Blaga A.C., Harja M. (2022), Encapsulation of *Saccharomyces pastorianus* Residual Biomass in Calcium Alginate Matrix with Insights in Ethacridine Lactate Biosorption, *Polymers*, ISSN 2073-4360, **14**(1), 170.
WOS: 000824208600001, DOI: 10.3390/ma15134657, IF₂₀₂₄ = 4,9
 12. Rusu, L., Grigoraş, C.G., Suceveanu E.M., **Simion, A.I.**, Dediu Botezatu A.V., Istrate B., Doroftei I. (2021), Eco-friendly biosorbents based on microbial biomass and natural polymers: synthesis, characterization and application for the removal of drugs and dyes from aqueous solutions, *Materials*, ISSN 1996-1944, **14**(17), 4810.
WOS: 000694414700001, DOI: 10.3390/ma14174810, IF₂₀₂₄ = 3,2
 13. Rusu, L., Grigoraş, C.G., **Simion, A.I.**, Suceveanu E.M., Şuteu D., Harja M. (2021), Application of *Saccharomyces cerevisiae*/calcium alginate composite beads for cephalixin antibiotic biosorption from aqueous solutions, *Materials*, ISSN 1996-1944, **14**(16), 4728.
WOS: 000689581500001, DOI: 10.3390/ma14164728, IF₂₀₂₄ = 3,2
 14. Muntianu, G., **Simion, A.I.***, Grigoraş, C.G., Nistor, I.D., Jinescu, G., (2021), Aluminum Pillared Bentonite – Characterization and Synthesis Optimization by Response Surface Methodology, *Studia UBB Chemia*, ISSN 1224-7154, **66**(1), p. 73-88.
WOS: 000637282000007, DOI: 10.24193/subbchem.2021.1.06, IF₂₀₂₄ = 0,5
 15. Favier, L., Ungureanu, C.V., **Simion, A.I.**, Bahrim, G., Vial, C., (2021), Enhancing the biodegradation efficiency of a emergent refractory water pollutant by a bacterial isolate through a statistical process optimization approach, *Process Safety and Environmental Protection*, ISSN 0957-5820, **148**, p. 1133-1145.
WOS: 000637217000092, DOI: 10.1016/j.psep.2021.02.012, IF₂₀₂₄ = 7,8
 16. Grigoraş, C.G., **Simion, A.I.**, Favier, L., Gavrilă, L., (2020), Congo Red Removal from Aqueous Effluents by Adsorption on Cherry Stones Activated Carbon, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **19**(2), p. 247-254.
WOS: 000531733600007, IF₂₀₂₄ = 0,9
 17. Kadmi, Y., Favier, L., Yehya, T., Soutrel, I., **Simion, A.I.**, Vial, C., Wolbert, D., (2019), Controlling Contamination for Determination of Ultra-Trace Levels of Priority Pollutants Chlorophenols in Environmental Water Matrices, *Arabian Journal of Chemistry*, ISSN 1878-5352, **12**(8), p. 2905-2913.
WOS: 000504900300116, DOI: 10.1016/j.arabjc.2015.06.005, IF₂₀₂₄ = 5,2
 18. **Simion, A.I.**, Grigoraş, C.G., Favier, L., Muntianu, G., Gavrilă, L., (2019), Application of Response Surface Methodology to Optimize Some Fermentation and Formulation Conditions of Wheat Dough Fortified with Malt Culms Flour, *Annals of the University "Dunarea de Jos" of Galati Fascicle VI – Food Technology*, ISSN 1843-5157, **43**(2), p. 84-99.
WOS: 000509770600006, DOI: 10.35219/foodtechnology.2019.2.06, IF₂₀₂₄ = 0,7
 19. Vrînceanu, N., Hlihor, R.M., **Simion, A.I.***, Rusu, L., Fekete, I., Barka, N., Favier, L., (2019), New Evidence on the Enhanced Elimination of a Persistent Drug Used as Lipid Absorption Inhibitor by Advanced Oxidation with UV-A and Nanosized Catalysts, *Catalysts*, ISSN 2073-4344, **9**(9), 761.
WOS: 000489178000063, DOI: 10.3390/catal9090761, IF₂₀₂₄ = 4,0
 20. Favier, L., Rusu, L., **Simion, A.I.***, Hlihor, R.M., Păcală, M.L., Augustyniak, A., (2019), Efficient Degradation of Clofibric Acid through a Heterogeneous Photocatalytic Oxidation Process, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **18**(8), p. 1683-1692.
WOS: 000482576500007, IF₂₀₂₄ = 0,9
 21. **Simion, A.I.**, Grigoraş, C.G., Favier, L., Gavrilă, L., (2019), Mathematical Modelling and Prediction of Congo Red Adsorption on Cherry Stones Activated Carbon, *Studia UBB Chemia*, ISSN 1224-7154, **64**(2), p. 139-157.
WOS: 000477816000013, DOI: 10.24193/subbchem.2019.2.12, IF₂₀₂₄ = 0,5
 22. **Simion, A.I.**, Grigoraş, C.G., Chiriac, A., Tâmpu, N.C., Gavrilă, L., (2018), Mathematical Modelling for Phenolation of Spent Sulfite Liquor, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **17**(4), p. 771-781.
WOS: 000431134900003, IF₂₀₂₄ = 0,9

23. **Simion, A.I.** Grigoraş, C.G., Favier, L., Moroi, A.M., Kadmi, Y., Bahrim, G.E., (2017), Successful Fodder Yeast Production from Agro-industrial by Products Through a Statistical Optimization Approach, *Romanian Biotechnological Letters*, ISSN 1224-5984, **22**(3), p. 12671-12679.
WOS:000404459100019, IF₂₀₂₄ = 0,0
24. Kadmi, Y., Favier, L., **Simion, A.I.** Păcală, M.L., Rusu, L., Wolbert, D., (2017), Measurement of Pollution Levels of N-Nitroso Compounds of Health Concern in Water Using Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry, *Process Safety and Environmental Protection*, ISSN 0957-5820, **108**, p. 7-17.
WOS: 000405963400002, DOI: 10.1016/j.psep.2016.04.026, IF₂₀₂₄ = 7,8
25. Favier, L., Harja, M., **Simion, A.I.** Rusu, L., Kadmi, Y., Păcală, M.L., Bouzaza, A., (2016), Advanced Oxidation Process for the Removal of Chlorinated Phenols in Aqueous Suspensions, *Journal of Environmental Protection and Ecology*, ISSN 1311-5065, **17**(3), p. 1132-1141.
WOS: 000385910400033, IF₂₀₂₄ = 0,0
26. **Simion, A.I.** Manea, L., Grigoraş, C.G., Favier, L., (2016), Improving the Nutritional Quality of Fodder Yeasts by Adding Minerals, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **15**(5), p. 1009-1017.
WOS: 000381274100009, IF₂₀₂₄ = 0,9
27. Favier, L., **Simion, A.I.***, Matei, E., Grigoraş, C.G., Kadmi, Y., Bouzaza, A., (2016), Photocatalytic Oxidation of a Hazardous Phenolic Compound Over TiO₂ in a Batch System, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **15**(5), p. 1059-1067.
WOS: 000381274100015, DOI: 10.30638/eemj.2016.117, IF₂₀₂₄ = 0,9
28. Moroi, A.M., Vartolomei, N., **Simion, A.I.** Grigoraş, C.G., Cărbune, R.E., Alexe P., (2016), Improvement of Flour and Dough Rheological Properties by Maturation Process, *Romanian Biotechnological Letters*, ISSN 1224-5984, **21**(2), p. 11381-11392.
WOS: 000378173400015, IF₂₀₂₄ = 0,0
29. Kadmi, Y., Favier, L., **Simion, A.I.** Matei, E., Wolbert, D., (2016), Improved Determination of Dichloroacetic and Trichloroacetic Acids in Water by Solid Phase Extraction Followed by Ultra-High Performance Liquid Chromatography Tandem Mass Spectrometry, *Analytical Letters*, ISSN 0003-2719, **49**(3), p. 433-443.
WOS: 000366651900011, IF₂₀₂₄ = 1,8
30. **Simion, A.I.** Grigoraş, C.G., Moroi, A.M., Vartolomei, N., (2015), Mathematical Modelling of Pasta Dough Dynamic Viscosity, Thermal Conductivity and Diffusivity, *The Annals of the University "Dunărea de Jos" of Galati Fascicle VI – Food Technology*, ISSN 1843-5157, **39**(1), p. 81-92.
WOS: 000370658100007, IF₂₀₂₄ = 0,7
31. Favier, L., **Simion, A.I.** Rusu, L., Păcală, M.L., Grigoraş, C.G., Bouzaza, A., (2015), Removal of an Organic Refractory Compound by Photocatalysis in Batch Reactor – Kinetic Studies, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **14**(6), p. 1327-1338.
WOS: 000360500200011, DOI: 10.30638/eemj.2015.144, IF₂₀₂₄ = 0,9
32. Kadmi, Y., Favier, L., Harja, M., **Simion, A.I.** Rusu, L., Wolbert, D., (2015), A New Strategy for Pentachlorophenol Monitoring in Water Samples Using Ultra-High Performance Liquid Chromatography-Tandem Mass Spectrometry, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **14**(3), p. 567-574.
WOS: 000352652700009, IF₂₀₂₄ = 0,9
33. Kadmi, Y., Favier, L., **Simion, A.I.** Wolbert, D., (2015), A Rapid and Sensitive Method for the Monitoring of N-Nitrosodiphenylamine and N-Nitrosodimethylamine in Multiple Water Matrices, *Carpathian Journal of Earth and Environmental Sciences*, ISSN 1842-4090, **10**(1), p. 53-61.
WOS: 000350932700005, IF₂₀₂₄ = 0,9
34. **Simion, A.I.** Ioniță, I., Grigoraş, C.G., Favier-Teodorescu, L., Gavrilă, L., (2015), Development and Optimization of Water Based Paint Formula in Order to Reduce VOCs Emissions, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **14**(2), p. 277-288.

- WOS: 000351604300003, IF₂₀₂₄ = 0,9
35. Manea L., **Simion, A.I.***, Grigoraş, C.G., Favier-Teodorescu, L., (2014), New Viable Industrial Wastes Mix for Fodder Yeasts Production, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **13**(7), p. 1611-1621.
WOS: 000344577400009, IF₂₀₂₄ = 0,9
 36. Rusu, L., Harja, M., **Simion, A.I.**, Şuteu, D., Ciobanu, G., Favier-Teodorescu, L., (2014), Removal of Astrazone Blue from Aqueous Solutions onto Brown Peat. Equilibrium and Kinetics Studies, *Korean Journal of Chemical Engineering*, ISSN 0256-1115, **31**(6), p. 1008-1015.
WOS: 000337060500013, DOI: 10.1007/s11814-014-0009-3, IF₂₀₂₄ = 3,2
 37. Dobrovici, P., **Simion, A.I.***, Grigoraş, C.G., Ciobanu, D., (2014), Fodder Yeast Development Optimisation Using as Main Carbon Source Barley Husks Hydrolysed, *Romanian Biotechnological Letters*, ISSN 1224-5984, **19**(1), p. 9085-9095.
WOS: 000332382200020, IF₂₀₂₄ = 0,0
 38. Dobrovici, P., **Simion, A.I.***, Grigoraş, C.G., Favier-Teodorescu, L., (2013), Optimization of Barley Husks Acid Hydrolysis Process Using the Response Surface Methodology, *Revue Roumaine de Chimie*, ISSN 0035-3930, **58**(6), p. 517-525.
WOS: 000332812100007, IF₂₀₂₄ = 0,6
 39. **Simion, A.I.**, Dobrovici, P., Rusu, L., Favier-Teodorescu, L., (2012), Mathematical Modelling of the Process of Sugar Beet Pulp Valorisation by Acid Hydrolysis, *Revue Roumaine de Chimie*, ISSN 0035-3930, **57**(11), p. 913-918.
WOS: 000322692500003, IF₂₀₂₄ = 0,6
 40. **Simion, A.I.**, Dobrovici, P., Rusu, L., Gavrilă, L., Ciobanu, D., (2012), New Possibilities for the Valorization of Sugar Industry By-Products, *Revue Roumaine de Chimie*, ISSN 0035-3930, **57**(6), p. 577-586.
WOS: 000320072100004, IF₂₀₂₄ = 0,6
 41. **Simion, A.I.**, Grigoraş, C.G., Rusu, L., Gavrilă, L., (2012), Modelling of the Thermophysical Properties of Liquids Involved in Food Processing, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **11**(11), p. 2035-2045.
WOS: 000311559600020, IF₂₀₂₄ = 0,9
 42. **Simion, A.I.**, Dobrovici, P., Rusu, L., Gavrilă, L., (2011), Modeling of the Thermo-Physical Properties of Grapes Juice III. Viscosity and Heat Capacity, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **XII**(4), p. 409-420.
WOS: 000217231400012, IF₂₀₂₄ = 0,7
 43. Harja, M., Ciocîntă, R.C., Barbuta, M., Rusu, L., **Simion, A.I.**, Bistriceanu, I.B., (2010), CaCO₃ Controllable Synthesis by Double Exchange Method Using CaCl₂ Residual Solutions, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **9**(11), p. 1571-1577.
WOS: 000285557900020, DOI: 10.30638/eemj.2010.214, IF₂₀₂₄ = 0,9
 44. **Simion, A.I.**, Rusu, L., Patriciu, O.I., Gavrilă, L., (2009), Mathematical Modelling of Vitamin C Losses in Lemons During Thermal Treatments, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **IX**(4), p. 375-384.
WOS: 000217219400010, IF₂₀₂₄ = 0,7
 45. **Simion, A.I.**, Grigoraş, C., Rusu, L., Gavrilă, L., (2009), Modeling of the Thermo-physical Properties of Grapes Juice II. Boiling Point and Density, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **IX**(4), p. 365-374.
WOS: 000217219400009, IF₂₀₂₄ = 0,7
 46. **Simion, A.I.**, Rusu, L., Ştefănescu, I., Gavrilă, L., (2008), Influence of Various Thermal Treatments over Vitamin C Concentration in Lemons, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **IX**(4), p. 519-530.
WOS: 000217215100011, IF₂₀₂₄ = 0,7

LUCRĂRI PUBLICATE ÎN PROCEEDINGS INDEXATE ISI

1. Grigoraș, C.G., **Simion, A.I.**, Favier, L., Gavrilă, L., (2021), Effective Removal of Biebrich Scarlet Dye from Aqueous Solutions by Adsorption on Cherry Stones Powder Coated with Chitosan, *The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021*, 18-19 November 2021, Iasi, Romania, ISSN 2575-5137.
DOI:10.1109/EHB52898.2021.9657610, WOS:000802227900071
2. **Simion, A.I.**, Grigoraș, C.G., Favier, L., Gavrilă, L., (2019), Investigation of Kinetics Models and Equilibrium Isotherms for Congo Red Dye Adsorption on Activated Carbon Prepared from Fruits Industry Wastes, *The 7th IEEE International Conference on E-Health and Bioengineering - EHB 2019*, 21-23 November 2019, Iasi, Romania, ISBN 978-153860358-1.
DOI: 10.1109/EHB47216.2019.8969962, WOS:000558648300094
3. Hemidouche, S., Assoumani, A., Favier, L., **Simion, A.I.**, Grigoraș, C.G., Wolbert, D., Gavrilă, L., (2017), Removal of some Endocrine Disruptors via Adsorption on Activated Carbon, *The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017*, 22-24 June 2017, Sinaia, Romania, ISBN 978-153860358-1, p. 410-413.
WOS: 000445457500103
4. **Simion, A.I.**, Grigoraș, C.G., Gavrilă, L., (2015), Modeling Thermodynamic Properties of Glycerol Involved in Cosmetic and Pharmaceutical Industries Boiling Point, Heat Capacity and Thermal Conductivity, *The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015*, 19-21 November 2015, Iași, Romania, ISBN 978-1-4673-7545-0, p. 12-13.
WOS: 000380397900019
5. Gavrilă, L., Fînar, A.L., **Simion, A.I.**, Apetrii, I., (2003), Modelling of the Thermophysical Properties of Apple Juice. I Density and Viscosity, *Proceedings of the 14th DAAAM International Symposium „Intelligent Manufacture & Automation: Focus on Reconstruction and Development*, 22 - 25 October 2003, Sarajevo, Bosnia-Herzegovina, ISSN 1726-9679, ISBN 3-901509-34-8, p. 161-162.
WOS: 000245326200079

LUCRĂRI PUBLICATE ÎN REVISTE INDEXATE BDI

1. Grigoraș, C.G., **Simion, A.I.***, Gavrilă, L., (2022), Synthetic Dyes Adsorption from Aqueous Solutions. Overview on Process Improvement by Ultrasound Assistance, *Bulletin of Romanian Chemical Engineering Society*, ISSN 2360-4697, **9**(1), p. 76-93.
2. Gavrilă, L., **Simion, A.I.***, Grigoraș, C.G., Favier, L., (2020), An Eco-Friendly Solution for the Efficient Elimination of Pentoxifylline from Water: An Operational Performance Investigation, *Revista de Chimie*, ISSN 0034-7752, **71**(7), p. 59-69.
DOI: 10.37358/RC.20.7.8225
3. **Simion, A.I.**, Grigoraș, C.G., Gavrilă, L., (2015), Mathematical Modeling of Glycerol Aqueous Solutions Thermophysical Properties. Case Study of Density and Viscosity, *Journal of Agroalimentary Processes and Technologies*, ISSN 2069-0053, **21**(2), p. 125-135.
4. **Simion, A.I.**, Grigoraș, C.G., Roșu, A.M., Gavrilă, L., (2015), Mathematical Modelling of Density and Viscosity of NaCl Aqueous Solutions, *Journal of Agroalimentary Processes and Technologies*, ISSN 2069-0053, **21**(1), p. 41-52.
5. **Simion, A.I.**, Grigoraș, C.G., Gavrilă, L., (2014), Mathematical Modelling of Ten Vegetable Oils Thermophysical Properties. Study of Density and Viscosity, *Annals. Food Science and Technology*, ISSN 2065-2828, **15**(2), p. 371-386.
6. **Simion, A.I.**, Grigoraș, C.G., (2014), New Possibilities of Fodder Yeast Production, *Scientific Studies and Research. Series Biology*, ISSN 1224-919X, **23**(1), p. 69-76.

7. **Simion, A.I.**, Grigoraş, C.G., Gavrilă, L., (2014), Modelling of the Thermophysical Properties of Citric Acid Aqueous Solutions. Density and Viscosity, *Annals. Food Science and Technology*, ISSN 2065-2828, **15**(1), p. 193-202.
8. **Simion, A.I.**, Grigoraş, C.G., Bardaşu, L.E., Dabija, A., (2012), Modelling of the Thermophysical Lactic Acid Aqueous Solutions. Density and Viscosity, *Food and Environment Safety*, ISSN 2068-6609, **XI**(4), p. 49-58.
9. **Simion, A.I.**, Grigoraş, C.G., Rusu, L., Dabija, A., (2011), Modeling of the Thermo-Physical Properties of Aqueous Sucrose Solutions II. Boiling Point, Specific Heat Capacity and Thermal Conductivity, *Food and Environment Safety*, ISSN 2068-6609, **X**(4), p. 49-56.
10. Grigoraş, C.G., **Simion, A.I.**, Rusu, L., Gavrilă, L., (2011), Mathematical Modeling of Moisture Loss during Apple Cubes Dehydration, *Annals. Food Science and Technology*, ISSN 2065-2828, **12**(2), p. 216-220.
11. **Simion, A.I.**, Dobrovici, P., Grigoraş, C.G., Rusu, L., (2011), Modeling of the Thermo-Physical Properties of Aqueous Sucrose Solutions I. Density and Dynamic and Kinematic Viscosity, *Annals. Food Science and Technology*, ISSN 2065-2828, **12**(2), p. 225-232.
12. **Simion, A.I.**, Dobrovici, P., Rusu, L., Gavrilă, L., (2009), Modeling of the Thermo-physical Properties of Grapes Juice I. Thermal Conductivity and Thermal Diffusivity, *Annals. Food Science and Technology*, ISSN 2065-2828, **10**(2), p. 363-368.
13. Gavrilă, L., Fînaru, A., Istrati, L., **Simion, A.I.**, Ciocan, M.E., (2005), Influence of Temperature, Fat and Water Content on the Thermal Conductivity of Some Dairy Products, *Scientific Researches. Agroalimentary Processes and Technologies*, ISSN 1453-1399, **XI**(1), p. 205-210.
14. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, Granero Rodrigues, A.J., (2004), Possibilities of Emissions Reduction in Nitrogen-Based Fertilizer Plants, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **V**(1-2), p. 159-166.
15. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, (2003), Microbiologically Induced Corrosion and it's Mitigation in Cooling Cycles, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **IV**(1-2), p. 127-134.
16. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, Casares Martín, C., (2002), Galvanic Corrosion in Cooling Water Environments, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **III**(1-2), p. 93-108.
17. Gavrilă, L., Gavrilă, D., Casares Martín, C., **Simion, A.I.**, (2002), Possibilities of Fresh Water Consumption Reduction in Large Chemical Plants, *Modelling and Optimization in the Machines Building Field – MOCM – 8*, p. 268-273.
18. Gavrilă, L., Constantin, M.M., **Simion, A.I.**, (2001), Improving Solid-Liquid Gravitational Separation by Using Lamellae Settling, *Modelling and Optimization in the Machines Building Field – MOCM – 7, 1*, p. 85-90.
19. Gavrilă, L., Gavrilă, D., Constantin, M.M., **Simion, A.I.**, (2001), Corrosion Resistance of Copper and Copper Alloys in Cooling Water Environments, *Modelling and Optimization in the Machines Building Field – MOCM – 7, 1*, p. 176-181.
20. Gavrilă, L., Istrati, L., Constantin, M.M., **Simion, A.I.**, Ivăscan, Ş., (2001), Purifying Nickel Sulfate Solutions by Ion Exchange, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **II**(1-2), p. 31-36.
21. Gavrilă, L., Istrati, L., Constantin, M.M., **Simion, A.I.**, Ivăscan, Ş., (2001), Separation of Nickel, Aluminum and Magnesium from Spent Steam Reforming Catalysts Using Ion Exchange Resins, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, **II**(1-2), ISSN 1582-540X, p. 25-30.
22. **Simion, A.I.**, Dron, P.I., (2001), Algorithm and Computer Program for the Technological Dimensioning of Plate Heat Exchanger, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **II**(1-2), p. 43-48.
23. **Simion, A.I.**, Dron, P.I., (2001), Algorithm and Computer Program for the Technological Dimensioning of Agitated Film Evaporators, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, ISSN 1582-540X, **II**(1-2), p. 37-42.

LUCRĂRI PUBLICATE ÎN PROCEEDINGS INDEXATE BDI

1. Grigoraș, C.G., **Simion, A.I.**, Favier, L., Gavrilă, L., (2022), Evaluation of Three Operational Parameters in Adsorption Process of Organic Dyes, *The 10th IEEE International Conference on E-Health and Bioengineering - EHB 2022*, 17-19 November 2022, Iasi, Romania, ISSN 2575-5137.
2. Rusu, L., **Simion, A.I.**, Harja, M., (2009), Obtaining Insulated Foam for Ammonia which Could Be Used in Case of Ammonia Tank Accidents, *Proceedings 13th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2009*, Hammamet, Tunisia, 16-21 October 2009, ISBN 9958-617-30-7, p. 136-139.
3. Gavrilă, L., Fînar, A., **Simion, A.I.**, Ciocan, M.E., Istrati, L., (2005), Dependence of Some Properties of Liquid Food Products, By-Products and Raw Materials with Temperature and Composition, *State-of-the-art and problems of agricultural science and education*, Plovdiv, Bulgaria, 19-20 October 2005, p. 295-300.
4. Gavrilă, L., Istrati, L., **Simion, A.I.**, (2002), Valorisation des Catalyseurs Usés de Type NiO/Al₂O₃. 3. Cinétique de la Solubilisation de l'oxyde de Nickel, *Actes du 2^{ème} Colloque Franco-Roumain de Chimie Appliquée COFrRoCA 2002*, Bacău, Romania, 10-12 Octobre 2002, ISBN 973-8392-04-7, p. 281-284.
5. Gavrilă, L., **Simion, A.I.**, Apetrei, I., (2002), Modelling of the Thermophysical Properties of Milk. I. Density and Viscosity, *Proceedings of the 13th DAAAM International Symposium "Intelligent Manufacturing & Automation: Learning from Nature"*, 23-26 October 2002, Vienna, Austria, ISBN 3-901509-29-1, p. 015-016.
6. Apetrei, I., Ciocan, M.E., **Simion, A.I.**, Gavrilă, L., (2002), Modelling of the Thermophysical Properties of Milk. II. Thermal Capacity and Thermal Conductivity, *Proceedings of the 13th DAAAM International Symposium "Intelligent Manufacturing & Automation: Learning from Nature"*, 23-26 October 2002, Vienna, Austria, ISBN 3-901509-29-1, p. 179-180.

LUCRĂRI PUBLICATE ÎN REVISTE NEINDEXATE

1. Assoumani, A., Favier, L., **Simion, A.I.**, Grigoraș, C.G., Kadmi, Y., Wolbert, D., (2015), On the Use of Low Cost Adsorbents for the Removal of Endocrine Disruptors from Water: A Case Study with Bisphenol A, *Annals of the Academy of Romanian Scientists, Series on Chemistry Sciences*, ISSN 2393 – 2902, 2(1), p. 47-67.

LUCRĂRI PUBLICATE LA CONFERINȚE INTERNAȚIONALE

1. Gavrilă, L., Istrati, L., Fînar, A., Ștefănescu, I., Ciocan, M.E., **Simion, A.I.**, (2005), Manufacture of Mineral Fertilizers from an Environmental Point of View, *Proceedings of the 9th International Research/Expert Conference „Trends in the Development of Machinery and Associated Technology” TMT 2005*, Antalya, Turkey, 26-30 September 2005, p. 979-982.
2. Gavrilă, L., Gavrilă, D., Istrati, L., Fînar, A., Ciocan, M.E., **Simion, A.I.**, (2005), Improving of Heat Transfer Efficiency in Shell and Tube Heat Exchangers by Cooling Water Conditioning, *4th DAAAM Conference on Advanced Technologies for Developing Countries, ATDC'05*, Slavonski Brod, Croatia, 21-24 September 2005, p. 513-518.
3. Gavrilă, L., Gavrilă, D., Ciocan, M.E., **Simion, A.I.**, (2005), Corrosion Control in Water Cooled Shell and Tube Heat Exchangers, *5th International Conference "Research and Development in Mechanical Industry" RaDMI 2005*, ISBN-10 86-83803-22-8, ISBN 978-86-83803-22-4, Vrnjačka Banja, Serbia and Montenegro, 04-07 September 2005.
4. Gavrilă, L., Istrati, L., Fînar, A., **Simion, A.I.**, Ciocan, M.E., (2005), Fresh Water Consumption Reduction in Mineral Fertilizers Manufacturing, *Water Supply and Sewerage Services – Past, Present and Future*, Opatija, Croatia, 12-16 October 2005, p. 211-220.

5. Gavrilă, L., Fînaru, A., **Simion, A.I.**, Ciocan, M.E., (2005), Mathematical Models for the Calculus of Thermal and Physical Properties of Food: Milk and Cream Density and Viscosity, *Proceedings of the International Conference "Agriculture and Food Sciences, Processes and Technologies"*, 12-13 May, Sibiu, ISBN 973-739-093-8, ISBN 973-739-095-4, p. 217-222.
6. Gavrilă, L., Gavrilă, D., Fînaru, A., Istrati, L. Simion, A.I., (2005), Possibilities of Biofilms Control in the Industrial Water Cooling Systems, *Lucrările celui de-al VIII-lea simpozion de chimia coloizilor și suprafețelor*, Galați, 2-4 June 2005, Galați, Romania, ISBN 973-8316-84-7, p. 120-126.
7. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, (2004), Water Consumption Reduction in Chemical and Petrochemical Plants, *4th International Conference of the Chemical Societies of the South-East European Countries on Chemical Sciences in Changing Times: Visions, Challenges and Solutions – ICOSECS 4, II*, 18-21 July 2004, Belgrade, Serbia, ISBN 86-7132-018-9, p. 170.
8. Gavrilă, L., Fînaru, A.L., Apetrii, I. **Simion, A.I.**, (2004), Simulation des Propriétés Thermophysiques du Jus des Fruits, *Actes du séminaire d'animation régionale (Région Europe Centrale et Occidentale) SAR 2004*, 12-14 May 2004, Chisinau, République de Moldova, ISBN 9975-63-233-5, p. 72-77.
9. Gavrilă, L., Gavrilă, D., **Simion, A.I.**, Granero Rodríguez A.J. Casares Martín, C., (2002), Possibilities of Water Consumption Reduction and Corrosion Mitigation in Fertilizers Plants, *Proceedings of the Conference on Water Science and Technology, 43rd Annual Science Week*, 18 - 21 October 2002, Damask, Syria, p. 12.

LUCRĂRI PUBLICATE LA CONFERINȚE NAȚIONALE_____

1. Ciobanu, D., Rusu L., **Simion, A.I.**, Geangălău, S., (2009), Functional Food and Quality of Life. The Effect of Some Dietetic Bakery Products on the Human Health, *Proceedings of Congress of the Academy of Romanian Scientist "Quality of Life"*, Timisoara, Romania, ISBN 978-973-638-410-3, p. 121-128.

POSTERE PREZENTATE LA CONFERINȚE NAȚIONALE ȘI INTERNAȚIONALE_____

1. **Simion, A.I.**, Grigoraș, C.G., Favier, L., (2025), Adsorption of Reactive Black 5 dye on a new synthesized hydrogel, *Virtual International Scientific Conference on "Applications of Chemistry in Nanosciences and Biomaterials Engineering" NanoBioMat 2025 – Summer Edition*, 25-27 Iunie 2025, București, România.
2. Grigoraș, C.G., **Simion, A.I.**, (2025), Efficient adsorption of Acid Red 66 dye on a two components hydrogel, *Exploratory Workshop NeXT-Chem: Innovative Cross-Sectorial Technologies*, 22-23 Mai 2025, București, România.
3. Grigoraș, C.G., **Simion, A.I.**, Favier L., (2025), Remediation of dyes contaminated water through adsorption on green materials, *20th International Conference of Constructive Design and Technological Optimization in Machine Building Field – OPROTEH*, 21-23 Mai 2025, Bacău, România.
4. **Simion, A.I.**, Grigoraș, C.G., Favier, L., (2025), Mathematical modelling of the dynamic viscosity of ethylene glycol aqueous solutions, *20th International Conference of Constructive Design and Technological Optimization in Machine Building Field – OPROTEH*, 21-23 Mai 2025, Bacău, România.
5. Păcală, M.L., Favier, L., Grigoraș, C.G., **Simion, A.I.**, Brudiu, L. (2024), The Significant Use of Millet to Develop Nutritional Value Cereal-Based Products, *The 19th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2024*, 22-24 May 2024, Bacău, Romania.
6. **Simion, A.I.**, Favier, L., Grigoraș, C.G., (2024), Thermophysical Properties Mathematical Modelling of Ethylene Glycol – Water Binary Systems, *The 19th International Conference of*

Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2024, 22-24 May 2024, Bacău, Romania.

7. Sescu, A.M, Favier, L., Doina Lutic, D., Hanganu, D., **Simion, A.I.**, Grigoraș, C.G., Rusu, L., Harja, M., (2024), UV-A Sensitive Mesoporous Catalysts Toward Clofibric Acid Photo-Oxidation: Synthesis, Characterization and Performance Evaluation, *The 19th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2024, 22-24 May 2024, Bacău, Romania.*
8. Păcală, M.L., Favier, L., Sipoș, A., **Simion, A.I.**, Grigoraș, C.G., Brudiu, L (2024), Exploring Bread Production with Functional Ingredients, Approach on Brewer's Spent Grain, *The 19th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2024, 22-24 May 2024, Bacău, Romania.*
9. Grigoraș, C.G., **Simion, A.I.**, Favier, L., (2024), Development of a Novel Two-Components Material and Its Application as Efficient Dyes Adsorbent, *International Chemical Engineering and Material Symposium, SICHEM 2024, 11-12 April 2024, Bucharest, Romania.*
10. Favier, L., Grigoraș, C.G., Harja, M., Păcală, M.L., **Simion, A.I.**, (2023), Fast photocatalytic elimination and mineralization of an emergent water contaminant using titania₂ nanocatalysts, *3rd International Meeting on New Strategies in Bioremediation/Restoration Processes, 29-30th June 2023, Muttentz, Switzerland.*
11. Grigoraș, C.G., **Simion, A.I.**, Favier, L., (2023), Preparation of an adsorbent material from cherry stones powder and its application in retaining azo dyes from aqueous solutions, *The 18th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2023, 11-13 May 2023, Bacău, Romania.*
12. Sescu, A.M, Favier, L., Doina Lutic, D., Harja, M., Rusu, L., **Simion, A.I.**, Grigoraș, C.G., (2023), An investigation into synthesis of mixed oxides and their use on water decontamination, *The 18th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2023, 11-13 May 2023, Bacău, Romania.*
13. Muntianu, G., **Simion, A.I.**, Grigoraș, C.G., Nistor, I.D., (2023), Ammonia adsorption on pillared clay in magnetic field. Mathematical modelling and optimization by response surface methodology, *The 18th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2023, 11-13 May 2023, Bacău, Romania.*
14. Grigoraș, C.G., **Simion, A.I.**, Favier, L., Gavrilă, L., (2022), Evaluation of Three Operational Parameters in Adsorption Process of Organic Dyes, *The 10th IEEE International Conference on E-Health and Bioengineering - EHB 2022, 17-19 November 2022, Iasi, Romania.*
15. Rusu, L., Grigoraș, C.G., Suceveanu, E.M., **Simion, A.I.**, Favier, L., (2022), *Saccharomyces pastorianus* residual biomass/calcium alginate system acts as an efficient biosorbent to remove pharmaceuticals from aqueous matrices in different operational conditions, *6th Edition of International Conference on Chemical Engineering, 05-07 October 2022, Iasi, Romania.*
16. Rusu, L., Grigoraș, C.G., **Simion, A.I.**, Suceveanu, E.M., Vial, C., (2022), Application of Biocomposite Material Based on Residual Microbial Biomass and Natural Polymer for the Removal of Pharmaceuticals from Aqueous Solutions in Continuous System, *22nd Romanian International Conference on Chemistry and Chemical Engineering – RICCE 2022, 7–9 September 2022, Sinaia, Romania.*
17. Suceveanu, E.M., Rusu, L., Grigoraș, C.G., **Simion, A.I.**, (2022), Eco-Friendly Biosorbents Based on *Saccharomyces pastorianus* Immobilized in Natural Polymers: Synthesis, Characterization and Application for the Removal of Pharmaceuticals from Aqueous Matrices, *22nd Romanian International Conference on Chemistry and Chemical Engineering – RICCE 2022, 7–9 September 2022, Sinaia, Romania.*
18. Secară, A., Georgescu, A-M., **Simion, A.I.**, Ureche, D., Nistor, I.D., (2022), Raw Materials for Poultry Feed, *The 17th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2022, 25-27 May 2022, Bacău, Romania.*
19. Rusu, L., Grigoraș, C.G., **Simion, A.I.**, Suceveanu, E.M., Vial, C., (2022), Modeling and Optimization of Pharmaceuticals Biosorption from Aqueous Matrices by *Saccharomyces*

- Pastorianus* Residual Biomass/Calcium Alginate Composite Beads in a Batch System, *The 17th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2022*, 25-27 May 2022, Bacău, Romania.
20. Harja, M., Trifas, L.M. Ciobanu G., Rusu, L., **Simion, A.I.**, Favier, L., (2022), Congo Red Dye Adsorption from Aqueous Solution to Magnesium Hydroxide Adsorbent, *The 17th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2022*, 25-27 May 2022, Bacău, Romania.
 21. Siamer, S., Bouafia, S., Sescu A.M., Harja, M., **Simion, A.I.**, Grigoraş, C.G. Păcală, M.L., (2022), Toward the Efficient Elimination of a Toxic Organic Compound from Aqueous Suspension Under Solar Light Irradiation, *The 17th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2022*, 25-27 May 2022, Bacău, Romania.
 22. Păcală, M.L., Favier, L., Sipos, A.S., **Simion, A.I.**, Brudiu, L., (2022), Technological Aspects Concerning the Valorization of Wheat Bran in Cereal Probiotic Beverage Production, *The 17th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2022*, 25-27 May 2022, Bacău, Romania.
 23. Grigoraş, C.G., **Simion, A.I.**, Favier, L., Gavrilă, L., (2021), Effective Removal of Biebrich Scarlet Dye from Aqueous Solutions by Adsorption on Cherry Stones Powder Coated with Chitosan, *The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021*, 18-19 November 2021, Iasi, Romania.
 24. Rusu L., Grigoraş C.G., Suceveanu E.M., **Simion A.I.**, Favier L., (2021), Antibiotics biosorption from water matrices using composite materials based on microbial biomass and natural polymers, *The 20th International Conference "Life Sciences for Sustainable Development"*, 23rd – 24th September 2021, Cluj-Napoca, Romania.
 25. Rusu L., Grigoraş C.G., Suceveanu E.M., **Simion A.I.**, Şuteu D., (2021), Biosorptive potential of new types of biosorbents based on microorganism and residual biomass, *International Conference "Intelligent Valorisation of Agro-Industrial Wastes"*, 7-8 October 2021, Chisinau, Republic of Moldova.
 26. 22. Rusu L., Suceveanu E.M., Grigoraş C.G., **Simion A.I.**, Dediu Botezatu A.V., (2021), Removal of ethacridine lactate from aqueous solutions using biosorbents based on residual microbial biomass: fixed-bed column studies, *Symposium "Ecology and Protection of Ecosystems" The XIIIth Edition*, 4th – 5th November 2021, Bacau, Romania.
 27. Rusu L., Grigoraş C.G., Suceveanu E.M., **Simion A.I.**, Istrate B., (2021), Synthesis of biosorbents based on *Saccharomyces pastorianus* residual biomass by immobilization and encapsulation. Comparative evaluation of pharmaceuticals biosorption, *The International Conference Biotechnologies – "Present and Perspectives" 8th Edition*, 5th November 2021, Suceava, Romania.
 28. Doroftei R., Georgescu A.M., Muntianu G., Aruş A.V., **Simion A.I.**, Lehr B.C., Nistor D.I., (2021), Possibilities of Using Clay-Based Materials in the Service of Public Health and Industry, Especially in the Food Industry, *The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2021*, 25-27 May 2021, Bacău, Romania.
 29. Muntianu G., **Simion A.I.**, Grigoraş C.G., Nistor I.D., (2021), Utilization of Mathematical Modelling and Optimization by Response Surface Methodology for Aluminum Pillaring Process, *The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2021*, 25-27 May 2021, Bacău, Romania.
 30. Paleu D., **Simion A.I.**, Grigoraş C.G., Roşu A.M., Nistor D.I., (2021), Study on The Current State of Preparation Methods for Hydrotalcite (Anionic Clays), *The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field - OPROTEH 2021*, 25-27 May 2021, Bacău, Romania.
 31. **Simion, A.I.**, Grigoraş, C.G., Favier, L., Gavrilă, L., (2019), Investigation of Kinetics Models and Equilibrium Isotherms for Congo Red Dye Adsorption on Activated Carbon Prepared from Fruits Industry Wastes, *The 7th IEEE International Conference on E-Health and Bioengineering - EHB 2019*, 21-23 November 2019, Iasi, Romania.

32. Favier, L., Coman, D., **Simion, A.I.**, Pacală, M.L., Vrînceanu, N., (2019), Enhance UV Light Assisted Photocatalytic Elimination of an Emergent Organic Water Contaminant, *New Trends in Environmental and Material Engineering – TEME2019*, 23-25 October 2019, Galați, România.
33. Grigoraș, A., **Simion, A.I.**, Favier, L., Gavrilă, L., (2019), Mathematical Modelling of Congo Red Adsorption on Activated Carbon Prepared from By-Products of Fruits Processing Industry, *International Conference of Applied Sciences – CISA*, 22-24 May 2019, Bacău, Romania.
34. Favier, L., Laslău, A., **Simion, A.I.**, Rusu, L., (2019), Significant Elimination of a Harmful Water Pollutant Over TiO₂ Catalyst and UV Irradiation, *International Conference of Applied Sciences – CISA*, 22-24 May 2019, Bacău, Romania.
35. Favier, L., Laslău, A., Simion, A.I., Sescu, A.M., Harja, M., Rusu, L., (2019), New evidence of accelerated elimination of an emergent water pollutant by TiO₂ assisted photo-oxidation, *16th International Conference on Environmental Science and Technology*, 4-7 September 2019, Rhodes, Greece.
36. Laslău, A., Favier, L., Sescu, A.M. Rusu, L., **Simion, A.I.**, Harja, M., Hlihor, R., Vidu, R. (2019), Efficient TiO₂ Assisted Degradation of a Relevant Organic Water Pollutant under UV Light Irradiation, *International Conference on Applications of Multi-scale Approaches in Environmental Chemistry*, 23-25 April 2019, Rennes, France.
37. Sescu, A.M., Laslău, A., Harja, M., **Simion, A.I.**, Rusu, L., Hemidouche, S., Barka, N., Favier, L., (2019), Enhanced Oxidation of a Hazardous Phenolic Compound from Water Over a TiO₂/UV System, *International Conference on Applications of Multi-scale Approaches in Environmental Chemistry*, 23-25 April 2019, Rennes, France.
38. **Simion, A.I.**, Grigoraș, C.G., Favier, L., Gavrilă, L., (2018), Diversification de la Valorisation des Sous-Produits de L'industrie du Sucre à Base de Betterave, *Le 10^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2018)*, 27-29 Juin 2018, Bacău, Romania.
39. Simion, P.E., Grigoraș, C.G., Favier, L., **Simion, A.I.**, Drob, C., (2018), Environmental Impact Assessment of Fodder Yeast Production Process from Barley Husks, *The International Conferences Celebrating Technical Higher Education Into "Vasile Alecsandri" University of Bacau*, 27-29 June 2018, Bacău, Romania.
40. **Simion, A.I.**, Grigoraș, C.G., Favier, L., Roșu, A.M., Muntianu, G., Gavrilă, L., (2017), Environmental Problems Overview in Sugar-Beet By-Products Conversion in Fodder Yeast, *Ecology and protection of ecosystems – EPE 2017*, 2-4 November 2017, Bacău, Romania.
41. Hemidouche, S., Assoumani, A., Favier, L., **Simion, A.I.**, Grigoraș, C.G., Wolbert, D., Gavrilă, L., (2017), Removal of some Endocrine Disruptors via Adsorption on Activated Carbon, *The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017*, 22-24 June 2017, Sinaia, Romania.
42. Favier, L., Pantilimon C.M., Dragan, C., **Simion, A.I.**, Rusu, L., Kadmi, Y., Matei, E., (2017), On the Enhancement of the Elimination of a Persistent Emerging Pollutant in a Photocatalytic Process, *20th Romanian International Conference on Chemistry and Chemical Engineering – RICCE 2017*, 6-9 September 2017, Brașov, Romania.
43. Favier, L., **Simion, A.I.**, Rusu, L., Grigoraș, C.-G., Kadmi, Y., Hlihor, R., Wolbert, D., (2017), Efficient Degradation of a Persistent Pharmaceutical Compound Through an Advanced Oxidation Process Via a Statistical Optimization Approach, *9th International Conference on Environmental Engineering and Management*, 6-9 September 2017, Bologna, Italia.
44. Favier, L., Rusu, L., **Simion, A.I.**, Hlihor, R., (2017), TiO₂ Advanced Oxidation as Prominent Strategy for the Removal of a Persistent Organic Molecule in Aqueous Solutions, *7th International Congress of Energy and Environment Engineering and Management (CIEM7)*, 17-19 July, Las Palmas de Gran Canaria, Spain.
45. Favier, L., **Simion, A.I.**, Rusu, L., Vidu, R., (2017), Does the Refractory Organic Molecules Can be Efficiently Removed from Aqueous Solutions by Advanced Oxidation Processes?, *41th ARA Congress*, 19-22 July, Craiova, Romania.
46. Roșu A.M., Rafin, C., **Simion, A.I.**, Veignie, E., (2017), Chemical Modification of Starch for New Matrix Used in Environmental Depollution, *AGRI-FOOD 2017 "Agriculture and Food for the XXI Century"*, 11-13 May 2017, Sibiu, Romania.

47. Favier, L., Matei, E., **Simion, A.I.**, Kadmi, Y., Rusu, L., (2016), Experimental Study on The Degradation of a Blood Lipid Regulator Molecule with Nano-sized Catalyst and UV Irradiation; *6th International Conference on Materials Science and Technologies – RoMat 2016*, 9-12 November 2016, Bucharest, Romania.
48. Favier, L., **Simion, A.I.**, Grigoraş C.-G., Ounnar, S., Kaidi, F., Wolbert, D., (2016), Application of response surface analysis to the advanced oxidation of clofibric acid in TiO₂/UV system, *9th European Meeting on Solar Chemistry and photocatalysis*, 13-17 June 2016, Strasbourg, Franța.
49. **Simion, A.I.**, Grigoraş, C.G., Chiriac, A., Tâmpu, C.N., Gavrilă, L., (2016), Mathematical Optimization of Lignosulphonate Waste Liquor Phenolization, *3rd International Conference on Chemical Engineering - ICCE 2016*, 9-11 November 2016, Iasi, Romania.
50. **Simion, A.I.**, Favier, L., Grigoraş, C.G., Kadmi, Y., Gavrilă, L., (2016), Méthodologie des Surfaces de Réponse Appliquée pour l'Amélioration du Pain Enrichie en Fibres Alimentaires, *International Conference of Applied Sciences – CISA*, 02-04 June 2016, Bacău, Romania.
51. Pircu (Vartolomei), Temea (Moroi), A.M., Teusdea, A.C., **Simion, A.I.**, Turtoi, M., (2016), Colour Measurement in L*A*B* Units for Bread with Rosehip Powder Addition, *International Conference of Applied Sciences – CISA*, 02-04 June 2016, Bacău, Romania.
52. Temea (Moroi), Pircu (Vartolomei), **Simion, A.I.**, Grigoraş, C.G., Alexe, P., (2016), The Influence of Maturation Flour on Quality Bread, *International Conference of Applied Sciences – CISA*, 02-04 June 2016, Bacău, Romania.
53. Favier, L., **Simion, A.I.**, Rusu, L., Ounnar, A., Kadmi, Y., Grigoraş, C.G., Wolbert, D., (2016), Elimination de l'Acide Clofibrique par Photocatalyse Hétérogène, *International Conference of Applied Sciences – CISA*, 02-04 June 2016, Bacău, Romania.
54. Roşu, A.M., Muntianu, G., Grigoraş, C.G., Miron, N.D., **Simion, A.I.**, (2016) Intensification des Procèdes d'Extraction des Principaux Pigments d'*Ocimum Basilicum Sp.*, *International Conference of Applied Sciences – CISA*, 02-04 June 2016, Bacău, Romania.
55. Kadmi, Y., Favier, L., Rusu, L., **Simion, A.I.**, Vial, C., (2016), Stratégie Analytique pour la Quantification de Sous-Produits Organoazotes Emergents dans les Matrices Aqueusee, *Le 9^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2016)*, 29 Juin - 1 Juillet 2016, Clermont Ferrand, France.
56. Pircu (Vartolomei), Temea (Moroi), A.M., Teusdea, A.C., **Simion, A.I.**, Turtoi, M., (2016), Analyse d'Images Couleur Utilise pour l'Evaluation du Pain Blanc avec Addition de Poudre de Rose Musquée, *Le 9^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2016)*, 29 Juin - 1 Juillet 2016, Clermont Ferrand, France.
57. Roşu, A.M., **Simion, A.I.**, Rafin, C. Veignie, E., (2016), Modifications Chimiques d'Amidon de Maïs pour des Solutions Innovantes de Réhabilitation des Sols Pollues, *Le 9^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2016)*, 29 Juin - 1 Juillet 2016, Clermont Ferrand, France.
58. Kadmi, Y., Favier, L., **Simion, A.I.**, Păcală, M.L., Rusu, L., Wolbert, D., (2015), Measurement of Pollution Levels of N-Nitroso Compounds of Health Concern in Water Using Ultra Performance Liquid Chromatography Tandem Mass Spectrometry, *The 8th International Conference on Environmental Engineering and Management - ICEEM08*, 9-12 September 2015, Iaşi, România.
59. Favier, L., Harja, M., **Simion, A.I.**, Kadmi, Y., Rusu, L., Păcală, M.L., Bouzaza, A., (2015), Advanced Oxidation Process for the Removal of Chlorinated Phenols in Aqueous Suspensions, *8th International Symposium on Cement Based Materials for a Sustainable Agriculture*, 22-25 October 2015, Iaşi, România.
60. **Simion, A.I.**, Grigoraş, C.G., Gavrilă, L., (2015), Modeling Thermodynamic Properties of Glycerol Involved in Cosmetic and Pharmaceutical Industries, *IEEE International Conference E-Health and Bioengineering - EHB 2015*, 19-21 November 2015, Iaşi, România.
61. Favier, L., Rusu, L., **Simion, A.I.**, Ounnar, A., Matei, M., Kadmi, Y., Grigoraş, C.G., Dinica, R., (2015), Investigation of the Photocatalytic Degradation of an Emerging Pharmaceutic Pollutant by UV Irradiation, *The 7th International Symposium EuroAliment 2015*, 24-26 September, 2015, Galaţi, Romania;

62. **Simion, A.I.**, Grigoraş, C.G., Favier, L., Moroi, A.M., Kadmi, Y., (2015), Plant & Agri-Industrial By-Products Used in Fodder Yeast Production, *Ecology and protection of ecosystems – EPE 2015*, 5-7 November 2015, Bacău, Romania.
63. Favier, L., **Simion, A.I.**, Matei, E., Grigoraş, C.G., Kadmi, Y., Wolbert, D., (2015), Photocatalytic Oxidation Kinetics of 2,4 Dichlorophenol Using Titanium Dioxide in a Batch System, *19th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE)*, 02-05 September 2015, Sibiu, Romania.
64. Favier, L., Rusu, L., **Simion, A.I.**, Kadmi, Y., Matei, E., Ounnar, A., Grigoraş, C.G., Vial, C., (2015), The Role of Some Operating Parameters in the Removal of an Emerging Pharmaceutic Pollutant by UV Irradiation, *Chemical Engineering and Biochemical Engineering for a NEW Sustainable Process Industry in Europe*, 27 September - 1 October 2015, Nice, France.
65. **Simion, A.I.**, Grigoraş, C.G., Gavrilă, L., (2015), Phenolization Optimization of Lignosulphonate Waste from Pulp and Paper Industry, *International Conference of Applied Sciences – CISA*, 04-06 June 2015, Bacău, Romania.
66. Ungureanu (Cărbune), R.E., Pircu (Vartolomei), N., Temea (Moroi), A.M., **Simion, A.I.**, Grigoraş, C.G., Alexe, P., (2015), Improvement of Wheat Bread Quality with Soy Flour Addition, *International Conference of Applied Sciences – CISA*, 04-06 June 2015, Bacău, Romania.
67. Roşu, M.L., Roşu, A.M., **Simion, A.I.**, Grigoraş, C.G., Brabie, G., (2015), Influence of Corrosive Medium Concerning the Quality of Metal Material, *International Conference of Applied Sciences – CISA*, 04-06 June 2015, Bacău, Romania.
68. Roşu, A.M., **Simion, A.I.**, Grigoraş, C.G., Miron, N.D., Rafin, C., Veignie, E., (2015), Starch Matrices Used in the Remediation of Soil, *International Conference of Applied Sciences – CISA*, 04-06 June 2015, Bacău, Romania.
69. **Simion, A.I.**, Grigoraş, C.G., Temea (Moroi), A.M., Pircu (Vartolomei), N., Favier, L., (2015), Optimal Fermentation Conditions of Dough Enriched with Malt Culms Flour Addition, *International Conference of Applied Sciences – CISA*, 04-06 June 2015, Bacău, Romania.
70. Chiriac, A., Grigoraş, C.G., Favier, L., Roşu, A.M., **Simion, A.I.**, (2015), Composting Dairy and Industrial Furniture Wastes as a Tool to Mitigate Waste and Reduce Their Environmental Impact, *International Conference of Applied Sciences – CISA*, 04-06 June 2015, Bacău, Romania.
71. Pircu (Vartolomei), N., Temea (Moroi), A.M., **Simion, A.I.**, Grigoraş, C.G., Ungureanu (Cărbune), R.E., Turtoi, M. (2015), Influence of Rosehip Addition on Dough Rheology and Bread Quality, *International Conference of Applied Sciences – CISA*, 04-06 June 2015, Bacău, Romania.
72. Temea (Moroi), A.M., Pircu (Vartolomei), N., **Simion, A.I.**, Grigoraş, C.G., Ungureanu (Cărbune), R.E., Alexe, P. (2015), Optimized Maturation Process Effects on Wheat Flour Dough Properties, *International Conference of Applied Sciences – CISA*, 04-06 June 2015, Bacău, Romania.
73. **Simion, A.I.**, Ioniţă, I., Grigoraş, C.G., Favier, L., Gavrilă, L. (2014), Development and Optimization of Water Based Paint Formula in Order to Reduce VOCs Emissions, *2nd International Conference on Chemical Engineering - ICCE 2014*, 5-8 November 2014, Iasi, Romania.
74. **Simion, A.I.**, Manea, L., Grigoraş, C.G., Favier, L., (2014), Wastewaters Capitalization for Improving the Fodder Yeasts Nutritional Quality, *International Conference „Natural and Anthropic Risks” ICNAR 2014*, 04-07 June 2014, Bacău, Romania.
75. Kadmi, Y., Favier, L., **Simion, A.I.**, Rusu, L., Wolbert, D., (2014), A Practical UHPLC/DAD Method for the Detection of Chlorophenols in Water at Nanogram per Litter Level, *International Conference „Natural and Anthropic Risks” ICNAR 2014*, 04-07 June 2014, Bacău, Romania.
76. Favier, L., **Simion, A.I.**, Rusu, L., Ahumbay, G., Bouzaza, A., (2014), Kinetics of the Photocatalytic Degradation of Clofibric Acid in Water Using Titanium Dioxide under UV Irradiation, *13th International Conference on Clean Energy 2014 - ICCE 2014*, 8-12 June 2014, Istanbul, Turkey.

77. **Simion, A.I.**, Grigoraş, C.G., Roşu, A.M., Favier, L., (2014), Prediction of Density and Viscosity of Secondary Refrigerant Sodium Chloride Aqueous Solutions, *International Conference of Applied Sciences – CISA*, 07-09 May 2014, Bacău, Romania.
78. Favier, L., Grigoraş, C.G., Rusu, L., **Simion, A.I.**, Wolbert, D., (2014), Detection of Trace Endocrine Disrupting Compounds in Water Samples: UPLC-ESI-MS/MS versus HPLC-FD, *International Conference of Applied Sciences – CISA*, 07-09 May 2014, Bacău, Romania;
79. Roşu, A.M., **Simion, A.I.**, Grigoraş, C.G., Miron, N.D., (2014), L'influence des Extraits Végétaux sur les Indices Qualitatifs du Savon, *International Conference of Applied Sciences – CISA*, 07-09 May 2014, Bacău, Romania.
80. **Simion, A.I.**, Grigoraş, C.G., (2013), New Possibilities of Fodder Yeast Production, *Ecology and Protection of Ecosystems – EPE 2013*, 7-8 November 2013, Bacău, Romania.
81. Favier, L., **Simion, A.I.**, Rusu, L., Matei, E., Păcală, M.L., Grigoraş, C.G., Wolbert, D., Bouzaza, A., (2013), Advanced Oxidation Process for Organic Compound Elimination Based on Heterogenous Photocatalysis: A Kinetic Study, *International Conference on Environmental Research and Technology – ECO IMPULS 2013*, 7-8 November 2013, Timisoara, Romania.
82. Favier, L., Mocanu, I., **Simion, A.I.**, Rusu, L., Grigoraş, C.G., Kadmi, Y., Bouzaza, A., (2013), Photocatalytic, Oxidation of Pharmaceuticals in Aqueous Solution: A Case Study with Carbamazepine, *Euro-aliment 2013*, 3-5 October 2013, Galati, Romania.
83. Favier, L., Bouzaza, A., Rusu, L., **Simion, A.I.**, Grigoraş, C.G., Vial, C., Wolbert, D., (2013), Kinetic Study of the Photocatalytic Degradation of Carbamazepine over Aqueous TiO₂ Suspensions, *3rd European Symposium on Photocatalysis 2013*, 25-27 September 2013, Portorož, Slovenia.
84. **Simion, A.I.**, Grigoraş, C.-G., Gavrilă, L., (2013), Mathematical Modelling of Ten Vegetable Oils Thermophysical Properties. Study of Density and Viscosity. *New Trends in Oil, Gas and Petrochemical Industry. Workshop*. 24-25 May 2013, Constanta, Romania.
85. Grigoraş, C.-G., Manea, L., **Simion, A.I.**, Ciobanu, D. (2013), Improving the Nutritional Quality of Fodder Yeasts by Adding Minerals. *International Conference of Applied Sciences. Chemistry and Chemical Engineering – CISA*, 15-18 May 2013, Bacău, Romania.
86. **Simion, A.I.**, Dobrovici, P.E., Grigoraş, C.-G., Ciobanu, D., (2013), Fodder Yeast Development Optimisation Using as Main Carbon Source Barley Husks Hydrolysed. *International Conference of Applied Sciences. Chemistry and Chemical Engineering – CISA*, 15-18 May 2013, Bacău, Romania.
87. **Simion, A.I.**, Grigoraş, C.G., Rusu, L., Gavrilă, L., (2012), Modeling of the Thermo-Physical Properties of Liquids Involved in Food Processing, *Centenary of Education in Chemical Engineering*, 28-30 November 2012, Iaşi, Romania.
88. **Simion, A.I.**, Rusu, L., Micu, A.E., Caidas, V.E., (2012), Mathematical Modeling of the Thermo-Physical Properties of Citric Acid Aqueous Solutions. Density and Dynamic Viscosity, *International Conference of Applied Sciences, Chemistry and Chemical Engineering CISA – 2012*, 24 - 27 April 2012, Baraţi – Bacău, Romania.
89. **Simion, A.I.**, Grigoraş, C.G., Rusu, L., Bardaşu, L.E., (2012), Modélisation Mathématique des Propriétés Thermophysiques des Solutions Aqueuses d'Acide Lactique. Densité et Viscosité Dynamique, *Le 7^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2012)*, 27-29 Juin 2012, Bacău, Romania.
90. Favier, L., Bouzaza, A., Rusu, L., **Simion, A.I.**, Vial, C., Wolbert, D., (2012), Dégradation de la Carbamazépine en Milieu Aqueux par Photocatalyse Hétérogène, *Le 7^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2012)*, 27-29 Juin 2012, Bacău, Romania.
91. Semrany, S., Favier, L., **Simion, A.I.**, Djelal, H., Taha, S., Amrane, A., (2012), Biodégradation de La Carbamazepine par le Champignon Filamenteux *Trametes Versicolor*: Effet de l'Addition de Quelques Co-Substrats Organiques, *Le 7^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2012)*, 27-29 Juin 2012, Bacău, Romania.
92. Rusu, L., Harja, M., Favier, L., Grigoraş, C.G., **Simion A.I.**, Şuteu, D., (2012), Utilisation de la Tourbe Rouge et Brune pour l'Enlèvement des Polluants des Eaux Usées Municipales et Industrielles, *Le 7^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2012)*, 27-29 Juin 2012, Bacău, Romania.

93. Rusu, L., Harja, M., **Simion, A.I.**, Grigoraș, C.G. (2012), Fly Ash-Derived Zeolites as Adsorbents for Ni Removal from Waste Water, *International Conference of Applied Sciences, Chemistry and Chemical Engineering – CISA*, 24-27 April 2012, Barați – Bacău, Romania.
94. **Simion, A.I.**, Dobrovici, P, Rusu, L., Gavrilă, L., Ciobanu D., (2011), New Possibilities for the Valorization of Sugar Industry By-Products, *The 10th International Conference on Colloids and Surfaces Chemistry*, 9-11 June, Galați, Romania.
95. **Simion, A.I.**, Dobrovici, P, Rusu, L., Gavrilă, L., (2011), Mathematical Modelling of the Thermo-physical Properties of Grapes Juice III. Viscosity, *International Conference of Applied Sciences, Chemistry and Chemical Engineering CISA – 2011*, 28-30 April 2011, Barați – Bacău, Romania.
96. **Simion, A.I.**, Dobrovici, P, Rusu, L., Grigoraș, C., Gavrilă, L., Ciobanu, D., (2010), Nouvelles Modalités de Valorisation de la Pulpe de Betterave, *Le 6^{ème} Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2010)*, 7-10 Juin 2010, Orléans. France.
97. **Simion, A.I.**, Rusu, L., Ciobanu, D., Gavrilă, L., (2010), New Biomass Sources in Sugar Beet Industry, *International Conference of Applied Sciences, Chemistry and Chemical Engineering CISA – 2010*, 8-11 April 2010, Slănic Moldova – Bacău, Romania.
98. Harja, M., Rusu, L., Ciocinta, R.C., **Simion, A.I.**, (2009), CaCO₃ Controllable Synthesis by Double Exchange Method Using CaCl₂ Residual Solutions, *International Conference of Applied Sciences, Chemistry and Chemical Engineering CISA – 2009*, 2-5 April 2009, Slănic Moldova – Bacău, Romania.

CONTRACTE NAȚIONALE ȘI INTERNAȚIONALE_____

1. 2020 – 2022 – membru, „Obținerea de materiale cu valoare adăugată prin valorificarea subproduselor industriale – AddValueMat” .
PN-III-P2-2.1-PED-2019-1063.
2. 2018 – 2020 – membru (Expert selecție grup țintă, Coordonator rețea de parteneriate), „Parteneriat pentru stagii de practică - Primul pas pentru o carieră în industria alimentară” .
POCU/90/6.13/6.14/108612/05.07.2018 (49063/05.07.2018).
3. 2013 – membru, „Collège doctoral francophone BIOTECH” .
BIOTECH, 20664/21.11.2013.
4. 2003 – 2005 – membru (Expert pe termen scurt), „Calitate și expertiză în elaborarea și implementarea metodologiei de obținere și testare a produselor competitive prin formarea profesională în cadrul unor noi programe de master cu impact major pe piața muncii” .
POS DRU/86/1.2/S/56711.

16/02/2026

Conf. univ. dr. ing. ec. Andrei-Ionuț SIMION