Anexa nr. 18 COMISIA DE INGINERIA MEDIULUI

STANDARDE MINIMALE NECESARE ŞI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂŢĂMÂNTUL SUPERIOR ŞI A GRADELOR PROFESIONALE DE CERCETARE – DEZVOLTARE

Se definesc:

- **NT** = număr total de articole în reviste ISI
- **FIC** = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul susţinerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei poziţii didactice)
- **NP** = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondenţă)
- **NC** = număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitările

Concurs de Conferenţiar/CS II Standarde minimale (cumulative):

a) NT ≥ 15

b) NP ≥ 6, cu minim patru lucrări publicate în reviste cu factor de impact > 1

c) FIC ≥ 12 În acest caz în calculul FIC se ţine cont de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal şi respectiv de factorul de impact împărţit la numărul de autori pentru revistele în care candidatul a publicat un articol la care nu este autor principal.

d) NC ≥ 60
Brevetele naţionale (FI = 1) şi internaţionale (FI = 3) intră în calculul FIC de la punctul c)

Criteriu	Standard minim	Realizat candidat
NT = număr total de articole în reviste ISI	**NT ≥ 15**	NT = 45
NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondenţă)	**NP ≥ 6**	NP = 27
	NP (FI > 1) - min. 4	NP (FI > 1) = 7
FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul susţinerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei poziţii didactice)	**FIC ≥ 12**	FIC = 61,68
NC = număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitările	**NC ≥ 60**	NC = 323

a) NT = număr total de articole în reviste ISI

Conform Ordinului ministrului Educaţiei Naţionale şi Cercetării Ştiinţifice nr. 6.129/2016 privind aprobarea standardelor minimale necesare şi obligatorii pentru conferirea titlurilor didactice din învăţământul superior – Anexa nr. 18 COMISIA DE INGINERIA MEDIULUI

Criteriu	Standard minim	Realizat candidat
NT = număr total de articole în reviste ISI	**NT ≥ 15**	NT = 45

1. **Simion, A.I.**, Grigoraş, 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
   Prim autor
   Titlul publicaţiei: *Gels,* IF_{2024} = 5,3
2. Grigoraş, 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
   Autor de corespondenţă
   Titlul publicaţiei: *Journal of Composites Science,* IF_{2024} = 3,7
3. Grigoraş, 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
   Autor de corespondenţă
   Titlul publicaţiei: *Gels,* IF_{2024} = 5,3
4. Grigoraş, 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
   Autor de corespondenţă
   Titlul publicaţiei: *Gels,* IF_{2024} = 5,3
5. 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.
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   Autor de corespondenţă
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6. Grigoraş, 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
   Autor de corespondenţă
   Titlul publicaţiei: *Gels,* IF_{2024} = 5,3

7. Rusu, L., Grigoraş, 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
Titlul publicaţiei: *Polymers,* IF_{2024} = 4,9

8. Rusu, L., Grigoraş, 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.
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9. Rusu, L., Grigoraş, 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.
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Titlul publicaţiei: *Materials,* IF_{2024} = 3,2

10. 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.
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Titlul publicaţiei: *Polymers,* IF_{2024} = 4,9

11. 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.
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12. 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 cephalexin antibiotic biosorption from aqueous solutions, *Materials*, ISSN 1996-1944, **14**(16), 4728.
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14. 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
Titlul publicației: *Process Safety and Environmental Protection,* IF_{2024} = 7,8

15. 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.
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16. 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.
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19. 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.
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20. **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.
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21. **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.
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22. **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.
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23. 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.
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26. Favier, L., **Simion, A.I.***, Matei, E., Grigoraş, C.G., Kadmi, Y., Bouzaza, A., (2016), Photocatalytic Oxidation of a Hazardous Phenolic Compound Over TiO_2 in a Batch System, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **15**(5), p. 1059-1067.
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27. 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.
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28. 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.
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WOS: 000370658100007
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Titlul publicaţiei: *Annals of the University "Dunarea de Jos" of Galati Fascicle VI – Food Technology,* IF_{2024} = 0,7

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33. **Simion, A.I.**, Ioniţă, 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.
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Titlul publicaţiei: *Environmental Engineering and Management Journal,* IF_{2024} = 0,9

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Titlul publicaţiei: *Environmental Engineering and Management Journal,* IF_{2024} = 0,9

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Prim autor
Titlul publicaţiei: *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,* IF_{2024} = 0,7

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45. **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.
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Prim autor
Titlul publicației: *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,* IF_{2024} = 0,7

b.1) NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondenţă)

Conform Ordinului ministrului Educaţiei Naţionale şi Cercetării Ştiinţifice nr. 6.129/2016 privind aprobarea standardelor minimale necesare şi obligatorii pentru conferirea titlurilor didactice din învăţământul superior – Anexa nr. 18 COMISIA DE INGINERIA MEDIULUI

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1. **Simion, A.I.**, Grigoraş, 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
   Prim autor
   Titlul publicaţiei: *Gels,* IF_{2024} = 5,3
2. Grigoraş, 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
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   Titlul publicaţiei: *Journal of Composites Science,* IF_{2024} = 3,7
3. Grigoraş, 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
   Autor de corespondenţă
   Titlul publicaţiei: *Gels,* IF_{2024} = 5,3
4. Grigoraş, 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
   Autor de corespondenţă
   Titlul publicaţiei: *Gels,* IF_{2024} = 5,3
5. 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
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6. Grigoraş, 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.

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WOS: 000637282000007, DOI: 10.24193/subbchem.2021.1.06
Autor de corespondenţă
Titlul publicaţiei: *Studia UBB Chemia,* IF_{2024} = 0,5

8. **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.
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Prim autor
Titlul publicaţiei: *Annals of the University "Dunarea de Jos" of Galati Fascicle VI – Food Technology,* IF_{2024} = 0,7

9. 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.
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Autor de corespondenţă
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10. 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.
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11. **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.
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12. **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.
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13. **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.
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15. Favier, L., **Simion, A.I.***, Matei, E., Grigoraş, C.G., Kadmi, Y., Bouzaza, A., (2016), Photocatalytic Oxidation of a Hazardous Phenolic Compound Over TiO_2 in a Batch System, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **15**(5), p. 1059-1067.
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Autor de corespondenţă
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Autor de corespondenţă
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20. 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.
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21. **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.
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23. **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
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Titlul publicaţiei: *Environmental Engineering and Management Journal,* IF_{2024} = 0,9

24. **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.
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Prim autor
Titlul publicaţiei: *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,* IF_{2024} = 0,7

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WOS: 000217219400009
Prim autor
Titlul publicației: *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,* IF_{2024} = 0,7

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WOS: 000217215100011
Prim autor
Titlul publicației: *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,* IF_{2024} = 0,7

b.2) NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondenţă) cu minim patru lucrări publicate în reviste cu factor de impact > 1

Conform Ordinului ministrului Educaţiei Naţionale şi Cercetării Ştiinţifice nr. 6.129/2016 privind aprobarea standardelor minimale necesare şi obligatorii pentru conferirea titlurilor didactice din învăţământul superior – Anexa nr. 18 COMISIA DE INGINERIA MEDIULUI

Criteriu	Standard minim	Realizat candidat
NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondenţă)	**NP ≥ 6**	NP = 27
	NP (FI > 1) - min. 4	NP (FI > 1) = 7

1. **Simion, A.I.**, Grigoraş, 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
   Prim autor
   Titlul publicaţiei: *Gels,* **IF_{2024} = 5,3**
2. Grigoraş, 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
   Autor de corespondenţă
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3. Grigoraş, 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.
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   Autor de corespondenţă
   Titlul publicaţiei: *Gels,* **IF_{2024} = 5,3**
4. Grigoraş, 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
   Autor de corespondenţă
   Titlul publicaţiei: *Gels,* **IF_{2024} = 5,3**
5. 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

   Autor de corespondenţă
   Titlul publicaţiei: *Journal of Environmental Management,* **IF_{2024} = 8,1**

6. 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
Autor de corespondenţă
Titlul publicaţiei: *Gels,* **IF_{2024} = 5,3**

7. 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
Autor de corespondenţă
Titlul publicaţiei: *Catalysts,* **IF_{2024} = 4,0**

c) FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul susţinerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei poziţii didactice)

Conform Ordinului ministrului Educaţiei Naţionale şi Cercetării Ştiinţifice nr. 6.129/2016 privind aprobarea standardelor minimale necesare şi obligatorii pentru conferirea titlurilor didactice din învăţământul superior – Anexa nr. 18 COMISIA DE INGINERIA MEDIULUI

În acest caz în calculul FIC se ţine cont de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal şi respectiv de factorul de impact împărţit la numărul de autori pentru revistele în care candidatul a publicat un articol la care nu este autor principal.

Brevetele naţionale (FI = 1) şi internaţionale (FI = 3) intră în calculul FIC

Criteriu	Standard minim	Realizat candidat
FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul susţinerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei poziţii didactice)	**FIC ≥ 12**	FIC = 61,68

	Articol	Calcul FIC
1.	**Simion, A.I.**, Grigoraş, 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 **Prim autor** Titlul publicaţiei: *Gels,* **IF_{2024} = 5,3**	**5,3**
2.	Grigoraş, 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 **Autor de corespondenţă** Titlul publicaţiei: *Journal of Composites Science,* **IF_{2024} = 3,7**	**3,7**
3.	Grigoraş, 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 **Autor de corespondenţă** Titlul publicaţiei: *Gels,* **IF_{2024} = 5,3**	**5,3**
4.	Grigoraş, 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 **Autor de corespondenţă**	**5,3**

	Articol	Calcul FIC
	Titlul publicației: *Gels,* **IF_{2024} = 5,3**	
5.	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 **Autor de corespondenţă** Titlul publicației: *Journal of Environmental Management,* **IF_{2024} = 8,1**	**8,1**
6.	Grigoraş, 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 **Autor de corespondenţă** Titlul publicației: *Gels,* **IF_{2024} = 5,3**	**5,3**
7.	Rusu, L., Grigoraş, 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 **6 autori** Titlul publicației: *Polymers,* **IF_{2024} = 4,9**	**4,9/6 = 0,82**
8.	Rusu, L., Grigoraş, 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 **6 autori** Titlul publicației: *Polymers,* **IF_{2024} = 4,9**	**4,9/6 = 0,82**
9.	Rusu, L., Grigoraş, 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 **6 autori** Titlul publicației: *Materials,* **IF_{2024} = 3,2**	**3,2/6 = 0,53**
10.	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	**4,9/6 = 0,82**

	Articol	Calcul FIC
	6 autori Titlul publicației: *Polymers,* **IF$_{2024}$ = 4,9**	
11.	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 **7 autori** Titlul publicației: *Materials,* **IF$_{2024}$ = 3,2**	**3,2/7 = 0,46**
12.	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 cephalexin antibiotic biosorption from aqueous solutions, *Materials*, ISSN 1996-1944, **14**(16), 4728. WOS: 000689581500001, DOI: 10.3390/ma14164728 **6 autori** Titlul publicației: *Materials,* **IF$_{2024}$ = 3,2**	**3,2/6 = 0,53**
13.	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 **Autor de corespondenţă** Titlul publicației: *Studia UBB Chemia,* **IF$_{2024}$ = 0,5**	**0,5**
14.	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 **5 autori** Titlul publicației: *Process Safety and Environmental Protection,* **IF$_{2024}$ = 7,8**	**7,8/5 = 1,56**
15.	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 **4 autori** Titlul publicației: *Environmental Engineering and Management Journal,* **IF$_{2024}$ = 0,9**	**0,9/4 = 0,23**

	Articol	Calcul FIC
16.	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 **7 autori** Titlul publicaţiei: *Arabian Journal of Chemistry,* **IF_{2024} = 5,2**	**5,2/7 = 0,74**
17.	**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 **Prim autor** Titlul publicaţiei: *Annals of the University "Dunarea de Jos" of Galati Fascicle VI – Food Technology,* **IF_{2024} = 0,7**	**0,7**
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19.	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 **Autor de corespondenţă** Titlul publicaţiei: *Environmental Engineering and Management Journal,* **IF_{2024} = 0,9**	**0,9**
20.	**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 **Prim autor** Titlul publicaţiei: *Studia UBB Chemia,* **IF_{2024} = 0,5**	**0,5**
21.	**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 **Prim autor** Titlul publicaţiei: *Environmental Engineering and Management Journal,* **IF_{2024} = 0,9**	**0,9**

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22.	**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 **Prim autor** Titlul publicaţiei: *Romanian Biotechnological Letters,* **IF_{2024} = 0,0**	**0,0**
23.	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 **6 autori** Titlul publicaţiei: *Process Safety and Environmental Protection,* **IF_{2024} = 7,8**	**7,8/6 = 1,30**
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	Articol	Calcul FIC
28.	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 **5 autori** Titlul publicaţiei: *Analytical Letters,* **IF_{2024} = 1,8**	**1,8/5 = 0,36**
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30.	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 **6 autori** Titlul publicaţiei: *Environmental Engineering and Management Journal,* **IF_{2024} = 0,9**	**0,9/6 = 0,15**
31.	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 **6 autori** Titlul publicaţiei: *Environmental Engineering and Management Journal,* **IF_{2024} = 0,9**	**0,9/6 = 0,15**
32.	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 **4 autori** Titlul publicaţiei: *Carpathian Journal of Earth and Environmental Sciences,* **IF_{2024} = 0,9**	**0,9/4 = 0,23**

	Articol	Calcul FIC
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35.	Rusu, L., Harja, M., **Simion, A.I.**, Șuteu, 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 **6 autori** Titlul publicației: *Korean Journal of Chemical Engineering,* **IF_{2024} = 3,2**	**3,2/6 = 0,53**
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38.	**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 **Prim autor** Titlul publicației: *Revue Roumaine de Chimie,* **IF_{2024} = 0,6**	**0,6**

	Articol	Calcul FIC
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40.	**Simion, A.I.**, Grigoraș, 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 **Prim autor** Titlul publicaţiei: *Environmental Engineering and Management Journal,* **IF_{2024} = 0,9**	**0,9**
41.	**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 **Prim autor** Titlul publicaţiei: *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,* **IF_{2024} = 0,7**	**0,7**
42.	Harja, M., Ciocîntă, R.C., Barbuta, M., Rusu, L., **Simion, A.I.**, Bistricianu, I.B., (2010), $CaCO_3$ Controllable Synthesis by Double Exchange Method Using $CaCl_2$ Residual Solutions, *Environmental Engineering and Management Journal*, ISSN 1582-9596, **9**(11), p. 1571-1577. WOS: 000285557900020, DOI: 10.30638/eemj.2010.214 **6 autori** Titlul publicaţiei: *Environmental Engineering and Management Journal,* **IF_{2024} = 0,9**	**0,9/6 = 0,15**
43.	**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 **Prim autor** Titlul publicaţiei: *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,* **IF_{2024} = 0,7**	**0,7**
44.	**Simion, A.I.**, Grigoraș, 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	**0,7**

Articol	Calcul FIC
Prim autor Titlul publicației: *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,* **IF_{2024} = 0,7**	
45. **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 **Prim autor** Titlul publicației: *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry,* **IF_{2024} = 0,7**	**0,7**
Brevete	
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.**, **RO129161-B1** ***C05F 5/00*** (2006.01). **Brevet național**	**1,0**
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.**, **RO129229-B1** ***C05F 5/00*** (2006.01). **Brevet național**	**1,0**
Total	**61,68**

d) NC = număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitările

Conform Ordinului ministrului Educației Naționale și Cercetării Științifice nr. 6.129/2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior – Anexa nr. 18 COMISIA DE INGINERIA MEDIULUI

Criteriu	Standard minim	Realizat candidat
NC = număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitările	**NC ≥ 60**	NC = 323

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

(**4 citări**)
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1. Amen, R., et al., *A Novel Green In Situ Amine-Functionalized Aerogel UiO-66-NH_2/TOCNF for the Removal of Azo Anionic Dyes.* Gels, 2025. **11**(5).
2. Koc-Bilican, B., I. Bilican, and H. Çelebi, *Strong Amphoteric Adsorption of Reactive Red-141 onto Modified Orange Peel Derivatives: Optimization, Characterization, and Mechanism.* Polymers, 2025. **17**(13).
3. Radoor, S., et al., *Polyethyleneimine Functionalized Waste Tissue Paper&Waste PET Composite for the Effective Adsorption and Filtration of Organic Dyes from Wastewater.* Sustainable Materials and Technologies, 2025. **45**.
4. Wang, Y.Q., et al., *Optimization of Celery Tail Waste-Based Hydrogels and Application in Soil Water Retention.* Gels, 2025. **11**(4).

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

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Citat în:

1. Fahim, A.A.H., et al., *Insights Into the Adsorptive, Model Validation and Mechanistic Behavior of Alkalinated Pumpkin Seed Shells Biosorbent into Remediation of Cationic Dyes.* Egyptian Journal of Chemistry, 2025. **68**(9): p. 611-633.

3. 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.
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1. Abd El-Fattah, W., et al., *Smart Nanocomposite of Carbon Quantum Dots in Double Hydrogel (Carboxymethyl Cellulose/Chitosan) for Effectively Adsorb and Remove Diquat Herbicide: Characterization, Thermodynamics, Isotherms, Kinetics, and Optimizing Through Box-Behnken Design.* International Journal of Biological Macromolecules, 2025. **309**.

2. Alotaibi, A.M. and N.H. Elsayed, *Adsorption and Eliminating of Diquat Herbicide Using Layer Double Hydroxide Enclosed in Double Layer Hydrogel Beads of Carboxymethyl Cellulose and Alginate: Synthesis, Characterization, Adsorption Isotherm, Kinetics, Thermodynamics and Optimization via Box-Behnken Design.* International Journal of Biological Macromolecules, 2025. **303**.
3. Al-Wabsi, M.S. and S.A. Alshareef, *Elimination of Industrial Dye from Wastewater Through Alginate/ Polyethylenimine Hydrogel Beads Infused with Selenium Metal-Organic Framework: Evaluating Adsorption Isotherms, Kinetics, and Optimization Techniques.* Materials Today Communications, 2025. **47**.
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1. Arbab, A.M., et al., *A Comprehensive Review: Green Synthesis and Advanced Characterization of ZIFs For Improved Photocatalyst Degradation of Pollutants.* Supramolecular Chemistry, 2024. **35**(1-12): p. 55-83.
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Tabel sumativ

Criteriu	Standard minim	Realizat candidat	Punctaj comisie
NT = număr total de articole în reviste ISI	**NT ≥ 15**	NT = 45	
NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)	**NP ≥ 6**	NP = 27	
	NP (FI > 1**) - min. 4**	NP (FI > 1) = 7	
FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul susţinerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei poziţii didactice)	**FIC ≥ 12**	FIC = 61,68	
NC = număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitările	**NC ≥ 60**	NC = 323	

Comisia de examen: Semnătură:

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