

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
FACULTATEA DE INGINERIE CHIMICĂ ȘI PROTECȚIA MEDIULUI "CRISTOFOR SIMIONESCU"
DEPARTAMENTUL DE INGINERIE ORGANICĂ, BIOCHIMICĂ ȘI ALIMENTARĂ

Examen de promovare pentru ocuparea postului de profesor universitar, poz. 5

Disciplinele postului: MICROBIOLOGIE INDUSTRIALĂ
ENZIMOLOGIE

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale de prezentare la examenul de promovare pe postul de profesor universitar

Candidat: Blaga Alexandra Cristina / Data nașterii: [REDACTED] Funcția actuală: conferențiar universitar, Data numirii în funcția actuală: 14.02.2022 Instituția:

Universitatea Tehnică "Gheorghe Asachi" din Iași

Comisia de inginerie chimică, inginerie medicală, știința materialelor și nanomateriale

| | Profesor/abilitare Criterii minime | Criterii realizate la data de 12.12.2025 |
|---|---|---|
| NTOP | $NTOP \geq 4$ | 12 |
| NP | $NP \geq 20$ | 30 |
| FIC | $FIC \geq 30$ | 126.08 |
| NC | $NC \geq 120$ | 846 |
| NCO | $NCO \geq 1$ | 2 |
| Atestat de abilitare – OMEC 4624/22.07.2025 | | |

NTOP = număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal. Situația revistelor în top 25% se judecă pe cazul cel mai favorabil pentru candidat, fie la momentul publicării, fie la data înscrierii la concurs.

FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)

NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)

NC = număr total de citări (din baza SCOPUS) (se exclud autocitările candidatului)

NCO = număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terții în valoare minimă echivalentă cu 10.000 Euro

Articolele pentru calculul NTOP, FIC, NP, NC se vor lua în considerare numai dacă la data publicării revista era indexată ISI, iar la data înscrierii la concurs a candidatului articolele sunt vizibile în WoS sau dacă se prezintă ca reprinturi (inclusiv cu paginația revistei)

a.) **NTOP ≥ 4**
NTOP=12

1. Blaga, A.C., Dragoi, E.N., Cascaval, D. et al. Extraction of mandelic acid with ionic liquids: parametric study, model and process optimization with L-SHADE. *Sci Rep* 2025 15, 42677. <https://doi.org/10.1038/s41598-025-26825-0> (IF- 3.9)
2. Blaga, A.C.; Parvulescu, O.C.; Cascaval, D.; Galaction, A.I. Efficient Recovery of Valeric Acid Using Phosphonium-Based Ionic Liquids. *Int. J. Mol. Sci.* 2025, 26, 8970. <https://doi.org/10.3390/ijms26188970> (IF- 4.9)
3. Blaga, A.C.; Cimpoesu, R.; Tataru-Farmus, R.-E.; Suteu, D. Eco-Friendly Biosorbents from Biopolymers and Food Waste for Efficient Dye Removal from Wastewater. *Polymers* 2025, 17, 291. <https://doi.org/10.3390/polym17030291> (IF- 4.9)
4. Dragoi, E.N., Blaga, A.C. (corresponding author), Cascaval, D., Galaction, A.I. - Experimental, modeling and optimisation of adipic acid reactive extraction using ionic liquids, *Journal of Molecular Liquids*, 2024, 410, 125564, <https://doi.org/10.1016/j.molliq.2024.125564> (IF-5.3)
5. Blaga, A.C., Dragoi, E.N., Tucaliuc, A., Kloetzer L., Puitel A.C., Cascaval, D., Galaction, A.I. - Reactive extraction of muconic acid by hydrophobic phosphonium ionic liquids - Experimental, modelling and optimisation with Artificial Neural Networks, *Heliyon*, 2024, 10(16), e36113, <https://doi.org/10.1016/j.heliyon.2024.e36113> (IF-3.4)
6. Blaga, A.C.; Dragoi, E.N.; Gal, D.G.; Puitel, A.C.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D.; Galaction, A.I. - Selective separation of vitamin C by reactive extraction using ionic liquid: Experimental and modelling, *Journal of Industrial and Engineering Chemistry*, 2024, 133, <https://doi.org/10.1016/j.jiec.2023.11.057> (IF-5.9)
7. Blaga, A.C.; Tucaliuc, A.; Kloetzer, L. - Applications of Ionic Liquids in Carboxylic Acids Separation, *Membranes*, 2022, 12 (8), 771, <https://doi.org/10.3390/membranes12080771> (la momentul publicarii)
8. Blaga, AC; Tanasa, AM; Cimpoesu, R; Tataru-Farmus, RE; Suteu, D - Biosorbents Based on Biopolymers from Natural Sources and Food Waste to Retain the Methylene Blue Dye from the Aqueous Medium, *Polymers*, 2022, 14 (13), 2728, <https://doi.org/10.3390/polym14132728> (la momentul publicarii)
9. Suteu, D.; Blaga, A.C. (**autor corespondent**); Cimpoesu, R.; Puițel, A.C.; Tataru-Farmus, R.-E. Composites Based on Natural Polymers and Microbial Biomass for Biosorption of Brilliant Red HE-3B Reactive Dye from Aqueous Solutions. *Polymers* 2021, 13, 4314. <https://doi.org/10.3390/polym13244314> (la momentul publicarii)
10. Blaga, AC, Zaharia C., Suteu D. - Polysaccharides as support for microbial biomass-based adsorbents with applications in removal of heavy metals and dyes, *Polymers* 2021, 13, 2893. <https://doi.org/10.3390/polym13172893> (la momentul publicarii)
11. Lazar, RG; Blaga, AC (autor corespondent); Dragoi, EN; Galaction, AI; Cascaval, D - Mechanism, influencing factors exploration and modelling on the reactive extraction of 2-ketogluconic acid in presence of a phase modifier, *Separation and Purification Technology*, 255, 2021, 117740, <https://doi.org/10.1016/j.seppur.2020.117740> (la momentul publicarii)
12. Blaga, AC; Ciobanu, C; Cascaval, D; Galaction, AI -Enhancement of ergosterol production by *Saccharomyces cerevisiae* in batch and fed-batch fermentation processes using n-dodecane as oxygen-vector, *Biochemical Engineering Journal*, 131, 2018, 70-76, <https://doi.org/10.1016/j.bej.2017.12.010> (la momentul publicarii)

b.) **NP ≥ 20**
NP=30

1. Blaga, A.C., Dragoi, E.N., Cascaval, D. et al. Extraction of mandelic acid with ionic liquids: parametric study, model and process optimization with L-SHADE. *Sci Rep* 2025 15, 42677. <https://doi.org/10.1038/s41598-025-26825-0>
2. Blaga, A.C.; Parvulescu, O.C.; Cascaval, D.; Galaction, A.I. Efficient Recovery of Valeric Acid Using Phosphonium-Based Ionic Liquids. *Int. J. Mol. Sci.* 2025, 26, 8970. <https://doi.org/10.3390/ijms26188970>
3. Blaga, A.C.; Cimpoesu, R.; Tataru-Farmus, R.-E.; Suteu, D. Eco-Friendly Biosorbents from Biopolymers and Food Waste for Efficient Dye Removal from Wastewater. *Polymers* 2025, 17, 291. <https://doi.org/10.3390/polym17030291>
4. Dragoi, E.N., Blaga, A.C. (**autor corespondent**), Cascaval, D., Galaction, A.I. - Experimental, modeling and optimisation of adipic acid reactive extraction using ionic liquids, *Journal of Molecular Liquids*, 2024, 410, 125564, <https://doi.org/10.1016/j.molliq.2024.125564>
5. Blaga, A.C., Dragoi, E.N., Tucaliuc, A., Kloetzer L., Puitel A.C., Cascaval, D., Galaction, A.I. - Reactive extraction of muconic acid by hydrophobic phosphonium ionic liquids - Experimental, modelling and optimisation with Artificial Neural Networks, *Heliyon*, 2024, 10(16), e36113, <https://doi.org/10.1016/j.heliyon.2024.e36113>
6. Blaga, A.C.; Kloetzer, L.; Cascaval, D.; Galaction, A.-I.; Tucaliuc, A. Studies on Reactive Extraction of Itaconic Acid from Fermentation Broths. *Processes* 2024, 12, 725. <https://doi.org/10.3390/pr12040725>
7. Maxim, C.; Blaga, A.C. (**autor corespondent**); Tataru-Farmus, R.-E.; Suteu, D. *Acmella oleracea* Metabolite Extraction Using Natural Deep Eutectic Solvents. *Processes* 2024, 12, 1686. <https://doi.org/10.3390/pr12081686>
8. Blaga, A.C.; Dragoi, E.N.; Gal, D.G.; Puitel, A.C.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D.; Galaction, A.I. - Selective separation of vitamin C by reactive extraction using ionic liquid: Experimental and modelling, *Journal of Industrial and Engineering Chemistry*, 2024, 133, <https://doi.org/10.1016/j.jiec.2023.11.057>
9. Blaga, A.C.; Gal, D.G.; Tucaliuc, A. Recent Advances in Muconic Acid Extraction Process. *Appl. Sci.* 2023, 13, 11691. <https://doi.org/10.3390/app132111691>
10. Blaga, A.C.; Dragoi, E.N.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D. Folic Acid Ionic-Liquids-Based Separation: Extraction and Modelling. *Molecules* 2023, 28, 3339. <https://doi.org/10.3390/molecules28083339>
11. Blaga, A.C.; Dragoi, E.N.; Munteanu, R.E.; Cascaval, D.; Galaction, A.I. Gallic Acid Reactive Extraction with and without 1-Octanol as Phase Modifier: Experimental and Modeling. *Fermentation* 2022, 8, 633. <https://doi.org/10.3390/fermentation8110633>
12. Suditu G.D., Blaga A.C. (**autor corespondent**), Tataru-Farmus R.E., Zaharia C., Suteu D. - Statistical Analysis and Optimization of the Brilliant Red HE-3B Dye Biosorption onto a Biosorbent Based on Residual Biomass, *Materials* 2022, 15(20), 7180; <https://doi.org/10.3390/ma15207180>
13. Blaga, AC ; Tucaliuc, A; Kloetzer, L - Applications of Ionic Liquids in Carboxylic Acids Separation, *Membranes*, 2022, 12 (8), 771, <https://doi.org/10.3390/membranes12080771>
14. Tucaliuc, A; Cislaru, A ; Kloetzer, L ; Blaga, AC (**autor corespondent**) - Strain Development, Substrate Utilization, and Downstream Purification of Vitamin C, *Processes*, 2022, 10 (8), 1595, <https://doi.org/10.3390/pr10081595>
15. Blaga, AC; Tanasa, AM; Cimpoesu, R; Tataru-Farmus, RE; Suteu, D - Biosorbents Based on Biopolymers from Natural Sources and Food Waste to Retain the Methylene Blue Dye from the Aqueous Medium, *Polymers*, 2022, 14 (13), 2728, <https://doi.org/10.3390/polym14132728>
16. Blaga, AC; Cascaval, D; Galaction, AI - Improved Production of alpha-Amylase by *Aspergillus terreus* in Presence of Oxygen-Vector, *Fermentation*, 2022, 8 (6), 271, <https://doi.org/10.3390/fermentation8060271>
17. Suteu, D.; Blaga, A.C. (**autor corespondent**); Cimpoesu, R.; Puitel, A.C.; Tataru-Farmus, R.-E.- Composites Based on Natural Polymers and Microbial Biomass for Biosorption of Brilliant Red HE-3B Reactive Dye from Aqueous Solutions. *Polymers* 2021, 13, 4314. <https://doi.org/10.3390/polym13244314>

18. Blaga, AC; Zaharia C.; Suteu D. - Polysaccharides as support for microbial biomass-based adsorbents with applications in removal of heavy metals and dyes, *Polymers* 2021, 13, 2893. <https://doi.org/10.3390/polym13172893>
19. Lazar, RG; Blaga, AC (**autor corespondent**); Dragoi, EN; Galaction, AI; Cascaval, D - Mechanism, influencing factors exploration and modelling on the reactive extraction of 2-ketogluconic acid in presence of a phase modifier, *Separation and Purification Technology*, 255, 2021, 117740, <https://doi.org/10.1016/j.seppur.2020.117740>
20. Lazar, RG; Blaga, AC (**autor corespondent**); Dragoi, EN; Galaction, AI; Cascaval, D - Application of reactive extraction for the separation of pseudomonic acids: Influencing factors, interfacial mechanism, and process modelling, *Canadian Journal Of Chemical Engineering*, 2021, <https://doi.org/10.1002/cjce.24124>
21. Ciobanu, CP; Blaga, AC (**autor corespondent**); Froidevaux, R; Krier, F; Galaction, AI; Cascaval, D. Enhanced growth and beta-galactosidase production on Escherichia coli using oxygen vectors, *3 BIOTECH*, 2020, 10 (7), <https://doi.org/10.1007/s13205-020-02284-4>
22. Tucaliuc, A; Blaga, AC (**autor corespondent**); Galaction, AI; Cascaval, D - Mupirocin: applications and production, *BIOTECHNOLOGY LETTERS*, 2019, 41 (4-5), 495-502, <https://doi.org/10.1007/s10529-019-02670-w>
23. Blaga, AC; Ciobanu, C; Cascaval, D; Galaction, AI -Enhancement of ergosterol production by *Saccharomyces cerevisiae* in batch and fed-batch fermentation processes using n-dodecane as oxygen-vector, *Biochemical Engineering Journal*, 131, 2018, 70-76, <https://doi.org/10.1016/j.bej.2017.12.010>
24. Blaga, AC; D Cascaval; Kloetzer, L; Tucaliuc, A; Galaction, AI - Valorization Of Microalgal Biomass, *Environmental Engineering And Management Journal*, 17 (4), 2018,841-854, WOS: 000431134900010
25. Cascaval, D; Blaga, AC (**autor corespondent**); Galaction, AI - Diffusional effects on anaerobic biodegradation of pyridine in a stationary basket bioreactor with immobilized Bacillus spp. cells, *Environmental Technology*, 39 (2), 2018, 240-252, <https://doi.org/10.1080/09593330.2017.1298675>
26. Folescu E.; Blaga, AC (**autor corespondent**) - Utilization of olive oil as a potential oxygen-vector in stirred bioreactors, *ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL*, 12 (3), 587-594, 2013, WOS:000320144200020
27. Blaga, AC, T. Malutan - Selective Separation of Vitamin C by Reactive Extraction, *JOURNAL OF CHEMICAL ENGINEERING DATA*, 57 (2), pp 431–435, 2012, <https://doi.org/10.1021/je2010193>
28. Blaga, AC; Galaction A.I.; Cașcaval D. - Reactive extraction of 2-keto-gluconic acid. Mechanism and influencing factors, *ROMANIAN BIOTECHNOLOGICAL LETTERS*, 15 (3), 5253-5259, 2010
29. Blaga, AC; Galaction AI; Cascaval D - Separation of Amino Acids from Their Mixture by Facilitated Pertraction with D2EHPA, *CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY*, 22(4), 439-446, 2008
30. Blaga, AC; Galaction AI; Cascaval D - Extraction and transport of basic amino acids through liquid membranes, *REVISTA DE CHIMIE*, 58, (11), 1080-1084, 2007

c.) **FIC ≥ 30**

FIC = 102.268

| Nr. crt. | Referința bibliografică | FI | ni | FI/ni |
|----------|--|-----|----|-------|
| 1. | Blaga, A.C., Dragoi, E.N., Cascaval, D. et al. Extraction of mandelic acid with ionic liquids: parametric study, model and process optimization with L-SHADE. <i>Sci Rep</i> 2025 15, 42677. https://doi.org/10.1038/s41598-025-26825-0 | 3.9 | - | 3.9 |

| | | | | |
|-----|--|-----|---|-------|
| 2. | Blaga, A.C.; Parvulescu, O.C.; Cascaval, D.; Galaction, A.I. Efficient Recovery of Valeric Acid Using Phosphonium-Based Ionic Liquids. <i>Int. J. Mol. Sci.</i> 2025, 26, 8970. https://doi.org/10.3390/ijms26188970 | 4.9 | - | 4.9 |
| 3. | Blaga, A.C.; Cimpoesu, R.; Tataru-Farmus, R.-E.; Suteu, D. Eco-Friendly Biosorbents from Biopolymers and Food Waste for Efficient Dye Removal from Wastewater. <i>Polymers</i> 2025, 17, 291. https://doi.org/10.3390/polym17030291 | 4.9 | - | 4.9 |
| 4. | Turcov, D.; Paraschiv, M.; Blaga, A.C.; Tucaliuc, A.; Cascaval, D.; Galaction, A.-I. Natural Oils as Green Solvents for Reactive Extraction of 7-Aminocephalosporanic Acid: A Sustainable Approach to Bioproduct Recovery in Environmental Biotechnology. <i>Biomolecules</i> 2025, 15, 1371. https://doi.org/10.3390/biom15101371 | 4.8 | | 4.8 |
| 5. | Dragoi, E.N., Blaga, A.C. (corresponding author), Cascaval, D., Galaction, A.I. - Experimental, modeling and optimisation of adipic acid reactive extraction using ionic liquids, <i>Journal of Molecular Liquids</i> , 2024, 410, 125564, https://doi.org/10.1016/j.molliq.2024.125564 | 5.2 | - | 5.2 |
| 6. | Blaga, A.C., Dragoi, E.N., Tucaliuc, A., Kloetzer L., Puitel A.C., Cascaval, D., Galaction, A.I. - Reactive extraction of muconic acid by hydrophobic phosphonium ionic liquids - Experimental, modelling and optimisation with Artificial Neural Networks, <i>Heliyon</i> , 2024, 10(16), e36113, https://doi.org/10.1016/j.heliyon.2024.e36113 | 3.6 | - | 3.6 |
| 7. | Blaga, A.C.; Kloetzer, L.; Cascaval, D.; Galaction, A.-I.; Tucaliuc, A. Studies on Reactive Extraction of Itaconic Acid from Fermentation Broths. <i>Processes</i> 2024, 12, 725. https://doi.org/10.3390/pr12040725 | 2.8 | - | 2.8 |
| 8. | Suteu, D.; Blaga, A.C.; Rusu, L.; Tanasa, A.M. Saccharomyces pastorianus Residual Biomass Immobilized in a Polymer Matrix as a Biosorbent for Reactive Dye Removal: Investigations in a Dynamic System. <i>Polymers</i> 2024, 16, 491. https://doi.org/10.3390/polym16040491 | 4.9 | 4 | 1.175 |
| 9. | Blaga, A.C.; Dragoi, E.N.; Gal, D.G.; Puitel, A.C.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D.; Galaction, A.I. - Selective separation of vitamin C by reactive extraction using ionic liquid: Experimental and modelling, <i>Journal of Industrial and Engineering Chemistry</i> , 2024, 133, https://doi.org/10.1016/j.jiec.2023.11.057 | 6 | - | 6 |
| 10. | Maxim, C.; Blaga, A.C.; Cimpoesu, R.; Zinicovscaia, I.; Peshkova, A.; Danu, M.; Barna, A.S.; Suteu, D. Natural Antioxidants from <i>Acmella oleracea</i> Extract as Dermatocosmetic Actives. <i>Scientia Pharmaceutica</i> 2024, 92(3), 52. https://doi.org/10.3390/scipharm92030052 | 2.5 | 8 | 0.31 |
| 11. | Blaga, A.C.; Gal, D.G.; Tucaliuc, A. Recent Advances in Muconic Acid Extraction Process. <i>Appl. Sci.</i> 2023, 13, 11691. | 2.5 | - | 2.5 |
| 12. | Blaga, A.C.; Dragoi, E.N.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D. Folic Acid Ionic-Liquids-Based Separation: Extraction and Modelling. <i>Molecules</i> 2023, 28, 3339 | 4.6 | - | 4.6 |
| 13. | Rusu, L.; Suceveanu, E.-M.; Blaga, A.-C.; Nedeff, F.M.; Şuteu, D. Insights into Recent Advances of Biomaterials Based on Microbial Biomass and Natural Polymers for Sustainable Removal of Pharmaceuticals Residues. <i>Polymers</i> 2023, 15, 2923. https://doi.org/10.3390/polym15132923 | 4.9 | 5 | 0.98 |
| 14. | Barna, A.S.; Maxim, C.; Trifan, A.; Blaga, A.C.; Cimpoesu, R.; Turcov, D.; Suteu, D. Preliminary Approaches to Cosmeceuticals Emulsions Based on N-ProlylPalmitoyl Tripeptide-56 Acetat-Bakuchiol Complex Intended to Combat Skin Oxidative Stress. <i>Int. J. Mol. Sci.</i> 2023, 24, 7004. https://doi.org/10.3390/ijms24087004 | 4.9 | 7 | 0.7 |
| 15. | Turcov, D.; Barna, A.S.; Trifan, A.; Blaga, A.C.; Tanasă, A.M.; Suteu, D. Antioxidants from Galium verum as Ingredients for the Design of New Dermatocosmetic Products. <i>Plants</i> 2022, 11, 2454. https://doi.org/10.3390/plants11192454 | 4.1 | 6 | 0.68 |

| | | | | |
|-----|--|-------|----|-------|
| 16. | Suditu G.D., Blaga A.C. (autor corespondent), Tataru-Farmus R.E., Zaharia C., Suteu D. - Statistical Analysis and Optimization of the Brilliant Red HE-3B Dye Biosorption onto a Biosorbent Based on Residual Biomass, Materials 2022, 15(20), 7180; https://doi.org/10.3390/ma15207180 | 3.2 | - | 3.2 |
| 17. | Blaga, AC ; Tucaliuc, A; Kloetzer, L - Applications of Ionic Liquids in Carboxylic Acids Separation, Membranes, 2022, 12 (8), 771, https://doi.org/10.3390/membranes12080771 | 3.6 | - | 3.6 |
| 18. | Tucaliuc, A; Cislariu, A ; Kloetzer, L ; Blaga, AC (autor corespondent) - Strain Development, Substrate Utilization, and Downstream Purification of Vitamin C, Processes, 2022, 10 (8), 1595, https://doi.org/10.3390/pr10081595 | 2.8 | - | 2.8 |
| 19. | Blaga, AC; Cascaval, D; Galaction, AI - Improved Production of alpha-Amylase by Aspergillus terreus in Presence of Oxygen-Vector, Fermentation, 2022, 8 (6), 271 | 3.3 | - | 3.3 |
| 20. | Blaga, AC; Tanasa, AM; Cimpoesu, R; Tataru-Farmus, RE; Suteu, D - Biosorbents Based on Biopolymers from Natural Sources and Food Waste to Retain the Methylene Blue Dye from the Aqueous Medium, Polymers, 2022, 14 (13), 2728, | 4.9 | - | 4.9 |
| 21. | Suteu, D.; Blaga, A.C. (autor corespondent); Cimpoesu, R.; Puițel, A.C.; Tataru-Farmus, R.-E.- Composites Based on Natural Polymers and Microbial Biomass for Biosorption of Brilliant Red HE-3B Reactive Dye from Aqueous Solutions. Polymers 2021, 13, 4314 | 4.9 | - | 4.9 |
| 22. | Rusu, L.; Grigoraș, C.-G.; Simion, A.-I.; Suceveanu, E.-M.; Blaga, A.-C.; Harja, M. Encapsulation of Saccharomyces pastorianus Residual Biomass in Calcium Alginate Matrix with Insights in Ethacridine Lactate Biosorption. Polymers 2022, 14, 170. | 4.9 | 6 | 0.81 |
| 23. | Popescu, V.; Blaga, A.C.; Pruneanu, M.; Cristian, I.N.; Pișlaru, M.; Popescu, A.; Rotaru, V.; Crețescu, I.; Cașcaval, D. Green Chemistry in the Extraction of Natural Dyes from Colored Food Waste, for Dyeing Protein Textile Materials. Polymers 2021, 13, 3867. | 4.9 | 9 | 0.54 |
| 24. | Popescu, V.; Buciscanu, I.I.; Pruneanu, M.; Maier, S.S.; Danila, A.; Maier, V.; Pișlaru, M.; Rotaru, V.; Cristian, I.N.; Popescu, A.; Istrate, B.; Blaga, A.C.; Ciolacu, F.; Cretescu, I.; Chelariu, P.; Marin, M. Sustainable Functionalization of PAN to Improve Tinctorial Capacity. Polymers 2021, 13, 3665. | 4.9 | 16 | 0.3 |
| 25. | Blaga, AC; Zaharia C.; Suteu D. - Polysaccharides as support for microbial biomass-based adsorbents with applications in removal of heavy metals and dyes, Polymers 2021, 13, 2893 | 4.9 | - | 4.9 |
| 26. | Lazar, RG; Blaga, AC (autor corespondent); Dragoi, EN; Galaction, AI; Cascaval, D - Application of reactive extraction for the separation of pseudomonic acids: Influencing factors, interfacial mechanism, and process modelling, Canadian Journal Of Chemical Engineering, 2021 | 1.9 | - | 1.9 |
| 27. | Galaction, AI; Blaga, AC; Tucaliuc, A; Kloetzer, L; Cascaval, D - Modelling of ergosterol production by S. cerevisiae in presence of n-dodecane as oxygen-vector, Romanian Biotechnological Letters, 26 (2), 2464-2470, 2021 | 0.765 | 5 | 0.153 |
| 28. | Lazar, RG; Blaga, AC (autor corespondent); Dragoi, EN; Galaction, AI; Cascaval, D - Mechanism, influencing factors exploration and modelling on the reactive extraction of 2-ketogluconic acid in presence of a phase modifier, Separation and Purification Technology, 255, 2021, 117740 | 9 | - | 9 |
| 29. | L.I.Horciu, C. Zaharia, A.C. Blaga, L. Rusu, D. Suteu - Brilliant Red HE-3B Dye Biosorption by Immobilized Residual Consortium Bacillus sp. Biomass: Fixed-Bed Column Studies, Applied Science 2021, 11, 4498 | 2.5 | 5 | 0.5 |
| 30. | Estevinho, B. N.; Horciu R.; Blaga, A. C., Rocha F. - Development of Controlled Delivery Functional Systems by | 5.8 | 4 | 1.45 |

| | | | | |
|-----|--|------|---|------|
| | Microencapsulation of Different Extracts of Plants: Hypericum perforatum L., Salvia officinalis L. and Syzygium aromaticum, Food and Bioprocess Technology, 2021 | | | |
| 31. | Estevinho, B.N.; Lazar, R.; Blaga, A.C.; Rocha F. - Preliminary evaluation and studies on the preparation, characterization and in vitro release studies of different biopolymer microparticles for controlled release of folic acid, Powder Technology, 369, 279-288, 2020 | 4.5 | 4 | 0.9 |
| 32. | Horciu, IL; Blaga, AC; Rusu, L.; Zaharia C.; Suteu D. - Biosorption of reactive dyes from aqueous media using the Bacillus sp. residual biomass, Desalination And Water Treatment, 195, 2020, 353-360 | 1 | 5 | 0.2 |
| 33. | Ciobanu, Corina Paraschiva; Blaga, Alexandra Cristina; Froidevaux, Renato; et al. - Enhanced growth and beta-galactosidase production on Escherichia coli using oxygen vectors, 3 BIOTECH Volume: 2020, 7,298, 10 | 2.9 | - | 2.9 |
| 34. | Tucaliuc, A; Blaga, AC; Galaction, AI; Cascaval, D - Mupirocin: applications and production, Biotechnology Letters, 41, 4-5, 495-502, 2019 | 2.1 | - | 2.1 |
| 35. | Bucurescu, A; Blaga, AC; Estevinho, BN; Rocha, F. -Microencapsulation of Curcumin by a Spray-Drying Technique Using Gum Arabic as Encapsulating Agent and Release Studies, Food And Bioprocess Technology, 11 (10), 2018, 1795-1806 | 5.8 | 4 | 1.45 |
| 36. | Blaga, AC; Cascaval, D Cascaval; Kloetzer, L; Tucaliuc, A; Galaction, AI - Valorization Of Microalgal Biomass, Environmental Engineering And Management Journal, 17 (4), 2018,841-854 | 0.9 | - | 0.9 |
| 37. | Blaga, AC; Ciobanu, C; Cascaval, D; Galaction, AI -Enhancement of ergosterol production by Saccharomyces cerevisiae in batch and fed-batch fermentation processes using n-dodecane as oxygen-vector, Biochemical Engineering Journal, 131, 2018, 70-76 | 3.8 | - | 3.8 |
| 38. | Cascaval, D; Blaga, AC; Galaction, AI -Diffusional effects on anaerobic biodegradation of pyridine in a stationary basket bioreactor with immobilized Bacillus spp. cells, Environmental Technology, 39 (2), 2018, 240-252 | 2 | - | 2 |
| 39. | Kloetzer, L; Bompă, AS; Blaga, AC; Galaction, AI; Cascaval, D - Study on rosmarinic acid separation by synergic extraction, Separation Science and Technology, 53 (4), 2018, 645-654 | 2.3 | 5 | 0.46 |
| 40. | Ramona-Mihaela Matran, Anca-Irina Galaction, Alexandra Cristina Blaga, Marius Turnea, Dan Cașcaval, Distribution of Mixing Efficiency in a Split-Cylinder Gas-Lift Bioreactor with Immobilized Yarrowia Lipolytica Cells Used for Olive Oil Mill Wastewater Treatment, Chemical Engineering Communications 2016, 203(5), 666-675 | 2.78 | 5 | 0.55 |
| 41. | Madalina Poștaru, Amalia-Stela Bompă, Anca-Irina Galaction, Alexandra Cristina Blaga, Dan Cașcaval, Comparative study on pantothenic acid separation by reactive extraction with tri-n-octylamine and di-(2-ethylhexyl) phosphoric acid, Chem. Biochem. Eng. Quart. 2016, 31(1), 81-92 | 0.9 | 5 | 0.18 |
| 42. | Estevinho, BN; Carlan, I ; Blaga, A; Rocha, F - Soluble vitamins (vitamin B12 and vitamin C) microencapsulated with different biopolymers by a spray drying process, Powder Technology, 289, 71-78 | 5.18 | 4 | 1.29 |
| 43. | Belhacene, K; Grosu, EF ; Blaga, AC; Dhulster, P ; Pinteala, M; Froidevaux, - Simple Eco-Friendly Beta-Galactosidase Immobilization On Functionalized Magnetic Particles For Lactose Hydrolysis; Environmental Engineering And Management Journal, 14, 3, 631-638, 2015 | 0.9 | 6 | 0.15 |
| 44. | Dan Cașcaval, Ramona Mihaela Matran, Marius Turnea, Alexandra Cristina Blaga, Anca-Irina Galaction, Distribution of mixing efficiency in a split-cylinder gas-lift bioreactor for Yarrowia lipolytica suspensions, Canadian J. Chemical Engineering 2015, 93(1), 18-28. | 1.9 | 5 | 0.32 |
| 45. | Anca-Irina Galaction, Alexandra Cristina Blaga, Ramona Mihaela Matran, Dan Cașcaval, Effect of bed | 3.2 | 4 | 0.8 |

| | | | | |
|-----|---|------|---|-------|
| | configuration of immobilized biocatalysts on Penicillin G hydrolysis efficiency, Korean J. of Chemical Engineering 2015, 32(2), 216 | | | |
| 46. | Anca-Irina Galaction, Alexandra Cristina Blaga, Corina Ciobanu, Marius Turnea, Dan Cașcaval, Distribution of oxygen transfer rates in stirred bioreactor for different fermentation broths-oxygen-vectors dispersions, Environmental Engineering and Management Journal 2015, 14(2), 433-447 | 0.9 | 5 | 0.18 |
| 47. | Anca-Irina Galaction, Madalina Postaru, Lenuta Kloetzer, Alexandra Cristina Blaga, Dan Cașcaval, Separation of rosmarinic acid by facilitated pertraction, Food and Bioproducts Processing 2015, 94, 621-628 | 3.5 | 5 | 0.7 |
| 48. | Ramona-Mihaela Matran, Alexandra Cristina Blaga, Dan Cașcaval, Alexandra Tucaliuc, Anca-Irina Galaction, Comparative studies on kinetics of anaerobic and aerobic biodegradation of lipids from olive oil mill wastewaters with mixture of Bacillus spp. cells, Environmental Engineering and Management Journal 2015, 14(3), 575-579 | 0.9 | 5 | 0.18 |
| 49. | Cascaval, Dan, Matran, Ramona Mihaela, Turnea, Marius, Alexandra Cristina Blaga, Galaction, Anca-Irina;; Distribution of Mixing Efficiency in A Split-Cylinder Gas-Lift Bioreactor for Yarrowia Lipolytica Suspensions, Canadian Journal Of Chemical Engineering, 93 (1), 18-28, 2015 | 1.9 | 5 | 0.32 |
| 50. | Galaction, Anca-Irina; Matran, Ramona Mihaela; Turnea, Marius, Alexandra Cristina Blaga, Cascaval, Dan - Engineering Aspects of Penicillin G Transfer and Conversion to 6-Aminopenicillanic Acid in a Bioreactor with a Mobile Bed of Immobilized Penicillin Amidase, Chemical Engineering Communications, 201 (12), 1568-1581, 2014 | 2.48 | 5 | 0.49 |
| 51. | Carlescu, Alexandra; Alexandra Cristina Blaga; Galaction, Anca- Irina, Turnea Marius, Cascaval D – Interfacial Mass Transfer in the Reactive Extraction Process of Succinic Acid from Viscous Aqueous Solutions, Separation Science And Technology, 49 (7), 974-980, 2014 | 2.4 | 5 | 0.48 |
| 52. | Suteu, Daniela; Blaga, Alexandra Cristina; Diaconu, Mariana, Teodor Malutan - Biosorption of reactive dye from aqueous media using Saccharomyces cerevisiae biomass. Equilibrium and kinetic study, Central European Journal Of Chemistry, 11 (12), 2048-2057, 2013 | 1.46 | 4 | 0.365 |
| 53. | Matran, Ramona Mihaela; Galaction, Anca-Irina; Blaga, Alexandra Cristina, Dan Cascaval - Green technology for 6-aminopenicillanic acid production - study of penicillin g hydrolysis in a bioreactor with mobile bed of immobilized penicillin amidase under substrate inhibition, Environmental Engineering And Management Journal, 12 (11), 2261-2266, 2013 | 0.9 | 4 | 0.225 |
| 54. | Kloetzer, Lenuta; Postaru, Madalina; Galaction, Anca-Irina; Blaga Alexandra Cristina, Dan Cascaval - Comparative study on rosmarinic acid separation by reactive extraction with Amberlite LA-2 and D2EHPA. 1. Interfacial Reaction Mechanism and Influencing Factors, Industrial & Engineering Chemistry Research, 52 (38), 13785-13794, 201 | 3.9 | 5 | 0.78 |
| 55. | Folescu, Elena; Blaga, Alexandra Cristina - Utilization of olive oil as a potential oxygen-vector in stirred bioreactors, Environmental Engineering And Management Journal, 12 (3), 587-594, 2013 | 0.9 | - | 0.9 |
| 56. | Cascaval, Dan; Postaru, Madalina; Galaction, Anca-Irina; Alexandra Cristina Blaga - Fractionation of Carboxylic Acids Mixture Obtained by P. acidipropionici Fermentation Using Pertraction with tri-n- Octylamine and 1-Octanol - Industrial & Engineering Chemistry Research 52 (7), 2685-2692, 2013 | 3.8 | 4 | 0.95 |
| 57. | Cașcaval D., Turnea M., Galaction A.I., Alexandra Cristina Blaga. - 6-Aminopenicillanic acid production in stationary basket bioreactor with packed bed of immobilized penicillin amidase—Penicillin G mass transfer and consumption rate under internal diffusion limitation, Biochemical Engineering Journal, 69, pp. 113-122, 2012 | 3.8 | 4 | 0.95 |

| | | | | |
|------------|---|-------|---|---------------|
| 58. | Postaru M., Turnea M., Galaction A.I., Kloetzer L., Alexandra Cristina Blaga, Vlysidis A., Webb C., Carlescu A., Cascaval D. - Modeling of selective pertraction of carboxylic acids produced by <i>Actinobacillus succinogenes</i> fermentation, <i>Environmental Engineering And Management Journal</i> 11 (11), pp 1901-1906, 2012 | 0.9 | 9 | 0.1 |
| 59. | Blaga, AC, T. Malutan - Selective Separation of Vitamin C by Reactive Extraction, <i>Journal Of Chemical Engineering Data</i> , 57 (2), pp 431–435, 2012 | 2 | - | 2 |
| 60. | Anca-Irina Galaction, Alexandra Cristina Blaga, Dan Cașcaval - Study on facilitated pertraction of folic acid in pseudosteady-state regime, <i>Separation Science And Technology</i> , 46 (6), 912-919, 2011. | 2.4 | 3 | 0.6 |
| 61. | L. Kloetzer, Alexandra Cristina Blaga, A.I. Galaction, D. Cascaval - Separation of p-aminobenzoic acid using liquid membrane in presence of phase modifier. <i>Journal Of Biotechnology</i> , 150, p. S398, 2010 | 4.1 | 4 | 1.025 |
| 62. | Alexandra Cristina Blaga, Anca-Irina Galaction, Dan Cașcaval - Reactive extraction of 2-keto-gluconic acid. Mechanism and influencing factors, <i>Romanian Biotechnological Letters</i> , 15 (3), 5253-5259, 2010 | 0.765 | - | 0.765 |
| 63. | Sze Ki Carol Lin, Chenyu Du, Alexandra Cristina Blaga, Maria Camarut, Colin Webb, Christian V. Stevens, Wim Soetaert - Novel resin-based vacuum distillation-crystallisation method for recovery of succinic acid crystals from fermentation broths, <i>Green Chemistry</i> , 12, 666-671, 2010 | 9.3 | 7 | 1.32 |
| 64. | Alexandra Cristina Blaga, Galaction AI, Cascaval D - Separation of Amino Acids from Their Mixture by Facilitated Pertraction with D2EHPA, <i>Chemical And Biochemical Engineering Quarterly</i> , 22(4), 439-446, 2008 | 0.9 | - | 0.9 |
| 65. | Galaction AI, Nicuta N, Alexandra Cristina Blaga, Cascaval D - Selective separation of gentamicins by reactive extraction 1. Study on the extraction process, <i>Romanian Biotechnological Letters</i> , 12 (1) 3065-3071, 2007 | 0.765 | 4 | 0.191 |
| 66. | Cascaval D, Galaction AI, Alexandra Cristina Blaga – Photobioreactors, <i>Romanian Biotechnological Letters</i> , 12(5), 3377-3388, 2007 | 0.765 | 3 | 0.255 |
| 67. | Alexandra Cristina Blaga, Galaction AI, Cascaval D - Extraction and transport of basic amino acids through liquid membranes, <i>Revista De Chimie</i> , 58, (11), 1080-1084, 2007 | 1.755 | - | 1.755 |
| 68. | Cascaval D, Galaction AI, Nicuta N, Alexandra Cristina Blaga - Selective separation of gentamicins from the biosynthetic mixture by reactive extraction, <i>Separation And Purification Technology</i> , 57(2), 264-269, 2007 | 9 | 4 | 2.25 |
| 69. | Cascaval D, Alexandra Cristina Blaga, Camarut M, Galaction AI - Comparative study on reactive extraction of nicotinic acid with Amberlite LA-2 and D2EHPA, <i>Separation Science And Technology</i> , 42(2), 389-401, 2007 | 2.4 | 4 | 0.6 |
| FIC | | | | 126.08 |

d.) **NC ≥ 200**

NC = 846 (cf. SCOPUS 12.12.2025)

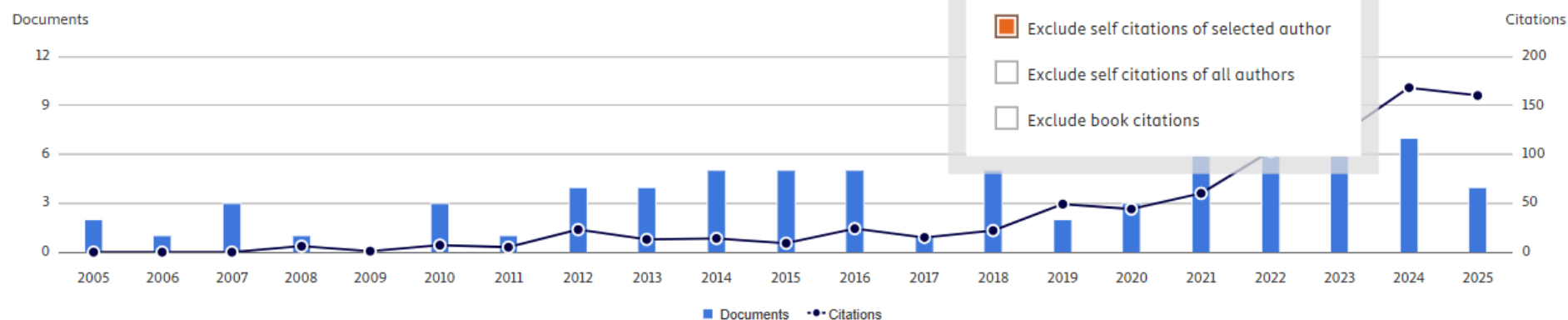
Citation overview

Blaga, Alexandra Cristina

82 Documents 846 Citations 16 h-index

Date range: 2005 to 2025

Exclude citations Hide documents with 0 citations Export



Sort by Cited by (highest)

| Documents | | Year | <2005 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------|---|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| Total | | | 0 | 0 | 0 | 0 | 6 | 1 | 7 | 5 | 23 | 13 | 14 | 9 | 24 | 15 | 22 | 49 | 44 | 60 | 103 | | 846 |
| 1 | Soluble vitamins (vitamin B12 and vitamin ... | 2016 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 | 9 | 12 | 15 | 12 | 20 | | 134 |
| 2 | Microencapsulation of Curcumin by a Spra... | 2018 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 10 | 15 | 9 | | 65 |
| 3 | Polysaccharides as support for microbial b... | 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | | 59 |
| 4 | Novel resin-based vacuum distillation-crys... | 2010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 2 | 8 | 1 | 6 | 0 | 4 | 5 | 4 | 3 | 6 | | 58 |
| 5 | Green chemistry in the extraction of natur... | 2021 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | | 34 |

e.) NCO ≥ 1 (in calitate de Director proiect/ responsabil Proiect)

NCO = 2

1. Separation of some vegetal and microbial compounds by non-conventional techniques - reactive extraction and facilitated pertraction, 2007-2008 (CNCSIS-TD) – Director de proiect (TD/33GR/23.05.2007 - valoare 23.000 RON (3,2785 – 7015 Euro) si 77GR/11.06.2008 – valoare 27.000 RON, 3.6673 – 7362 Euro) valoare totala grant **Euro 14377**
2. Valorificarea superioara a biomasei prin recuperarea unor compusi valorosi, [BIOEXTR], Program: PN-III-P1-1.1-TE, Cod proiect: PN-III-P1-1.1-TE-2021-0153, Contract de finanțare: PN III TE, nr. TE 16/2022, Valoarea totală: **450.000,00 lei**

Data: 17.12.2025

Candidat, conf.univ.habil.dr.ing. Alexandra Blaga

