

LISTA DE LUCRĂRI

Candidat: BLAGA, C. Alexandra Cristina - **Dr./** din 2011 (O.M. 4387), Conferentiar universitar din 2022.

1. Lista a maximum 10 lucrări, cele mai relevante pentru domeniul disciplinelor postului

1.	Blaga , A.C.; Dragoi, E.N.; Cascaval, D. et al. <i>Extraction of mandelic acid with ionic liquids: parametric study, model and process optimization with L-SHADE</i> . 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. <i>Efficient Recovery of Valeric Acid Using Phosphonium-Based Ionic Liquids</i> . Int. J. Mol. Sci. 2025, 26, 8970. https://doi.org/10.3390/ijms26188970
3.	Blaga , A.C.; Kloetzer, L.; Cascaval, D.; Galaction, A.-I.; Tucaliuc, A. <i>Studies on Reactive Extraction of Itaconic Acid from Fermentation Broths</i> . Processes 2024, 12, 725. https://doi.org/10.3390/pr12040725
4.	Blaga , A.C.; Dragoi, E.N.; Gal, D.G.; Puitel, A.C.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D.; Galaction, A.I. - <i>Selective separation of vitamin C by reactive extraction using ionic liquid: Experimental and modelling</i> , Journal of Industrial and Engineering Chemistry, 2024, https://doi.org/10.1016/j.jiec.2023.11.057
5.	Blaga , AC; Cascaval, D; Galaction, AI - <i>Improved Production of alpha-Amylase by Aspergillus terreus in Presence of Oxygen-Vector</i> , Fermentation, 2022, 8 (6), 271, https://doi.org/10.3390/fermentation8060271
6.	Tucaliuc, A; Cislaru, A ; Kloetzer, L ; Blaga , AC (autor corespondent) - <i>Strain Development, Substrate Utilization, and Downstream Purification of Vitamin C</i> , Processes, 2022, 10 (8), 1595, https://doi.org/10.3390/pr10081595
7.	Lazar, RG; Blaga , AC (autor corespondent); Dragoi, EN; Galaction, AI; Cascaval, D - <i>Mechanism, influencing factors exploration and modelling on the reactive extraction of 2-ketogluconic acid in presence of a phase modifier</i> , Separation and Purification Technology, 255, 2021, 117740, https://doi.org/10.1016/j.seppur.2020.117740
8.	Ciobanu, Corina Paraschiva; Blaga , A.C. (autor corespondent); Froidevaux, Renato; et al. - <i>Enhanced growth and beta-galactosidase production on Escherichia coli using oxygen vectors</i> , 3 BIOTECH 2020, 298 7, 10 https://doi.org/10.1007/s13205-020-02284-4
9.	Blaga , AC; Ciobanu, C; Cascaval, D; Galaction, AI - <i>Enhancement of ergosterol production by Saccharomyces cerevisiae in batch and fed-batch fermentation processes using n-dodecane as oxygen-vector</i> , Biochemical Engineering Journal, 131, 2018, 70-76, https://doi.org/10.1016/j.bej.2017.12.010
10.	Sze Ki Carol Lin, Chenyu Du, Blaga A.C, Maria Camarut, Colin Webb, Christian V. Stevens, Wim Soetaert - <i>Novel resin-based vacuum distillation-crystallisation method for recovery of succinic acid crystals from fermentation broths</i> , Green Chemistry, 12, 666-671, 2010, https://doi.org/10.1039/B913021G

2. Teza de doctorat (T1)

T1. *STUDIUL SEPARĂRII UNOR COMPUȘI NATURALI PRIN PERTRACȚIE*

Ordin nr. 4387/20.06.2011, Universitatea Tehnica Gheorghe Asachi din Iasi, domeniul Stiinte ingineresti/
 Inginerie chimica, conducator de doctorat: prof.univ.dr.ing. Dan Cașcaval
 (inclusiv anul, universitatea, domeniul, conducătorul de doctorat)

3. Brevete de invenție și alte titluri de proprietate industrială

B	Brevet de invenție acordat în țară	
	B1. Cascaval D; Galaction A I; Blaga A C. - <i>Process for separating cinnamic acid from an aqueous solution obtained by chemical synthesis or biosynthesis</i> , 127015/2014	1.2
	B2. Cascaval D., Galaction A.I., Kloetzer L., Blaga A.C. - <i>Procedeu de separare a benzilmetilaminei</i> , 130964/2020	1
	B3. Cascaval D., Galaction A.I., Postaru M., Blaga A.C. - <i>Procedeu de separare a acetofenonei</i> , 00130975/2020	1
	B4. Cascaval D., Galaction A.I., Blaga A.C. - <i>Procedeu de separare a acidului pantotenic</i> , 00131311/2020	1.2
		4.4

4. Cărți și capitole din cărți

a) Cărți/ cursuri/ manuale publicate în edituri recunoscute din țară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcționale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum și alte lucrări (M1, M2 etc.) prin care se aduc **contribuții la dezvoltarea activităților didactice/ profesionale.**

	Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)	Punctaj
Ca	Ca1. Blaga A.C. - Enzimologie: Fundamente și Aplicații în Ingineria Proceselor Biochimice, Editura Performantica, Iasi, 2025, ISBN 978-630-328-177-3	(5*269/100) = 13.45
	Ca2. Blaga A.C. , Tucaliuc A., Kloetzer L. – Microorganisme: caracteristici și aplicații, Ed. Performantica, 2021, ISBN 978-606-685845-8, 2021	(5*241/100/3) = 4.01
	Ca3. Suteu D., Blaga A.C. , Biotehnologii în protecția mediului, Editura Performantica, Iasi, 2013, ISBN 9786066 850711	(5*162/100)/2 = 4.05
	Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)	
I	I1 Blaga A.C. , Kloetzer L., Tucaliuc A. – Aplicații ale enzimelor și microorganismelor în industria alimentară și biochimică, Ed. Performantica, 2015, 196 pag, ISBN 978-606-685-315-6	(4*196/100)/3 = 2.61
	I2. Suteu D., Blaga A.C. - Biotehnologii în protecția mediului – elemente de teorie și aplicații, Ed. Performantica, Iasi, 2011, 98 pag, ISBN 978-973-730-867-2	(4*98/100)/2 = 1.96
D	Sisteme de laborator funcționale	
	D1. Studiu comparativ al activității β -galactozidazei în sistem liber și imobilizat	1.5
	D2. Separarea fosfatazei acide din germeni de grâu (Enzimologie - lucrare nouă)	1.5
	D3. Bioreactorul – componente și funcționare (Microbiologie industrială).	1.5
	D4. Studiul cinetic al scindării lactozei sub acțiunea β -galactozidazei - Enzimologie	1.5
	D5. Îndepărtarea unor poluanți din ape uzate prin biosorptie utilizând microorganisme imobilizate prin microîncapsulare – Biotehnologii în protecția mediului	1.5
	D6. Obținerea inoculului de laborator pentru obținerea β -galactozidazei folosind <i>E. coli</i> ca microorganism producător – Microbiologie industrială	1.5
W	Utilizarea sistemelor de predare/ învățare/ evaluare de tip e-learning/ on-line/ multimedia etc.	
	W1 Suport de studiu pentru curs Enzimologie (227 pag) http://www.didactic.icpm.tuiasi.ro/cv/blagaalexandrastina/	1
	W1 Suport de studiu pentru curs Microbiologie (322 pag) http://www.didactic.icpm.tuiasi.ro/cv/blagaalexandrastina/	1
	W1 Suport de studiu pentru laborator Microbiologie industrială (102 pag) http://www.didactic.icpm.tuiasi.ro/cv/blagaalexandrastina/	1
	W2 Suport de studiu pentru laborator Enzimologie (103 pag) http://www.didactic.icpm.tuiasi.ro/cv/blagaalexandrastina/	1
M	Contribuție la dotarea laboratoarelor, în valoare echivalentă cu 500 Euro: M1. nisa flux laminar – Steril Helios MI 2754b – 3400 Euro M2. autoclav de laborator – BiobaseBKM-Z18N – 1700 Euro M3. balanta KERN ABJ-NM – 1041 Euro	3
		42.08

b) Cărți/ capitole cărți de specialitate publicate în edituri recunoscute din țară sau din străinătate (Cb1, Cb2 etc.),

	Capitol carte de specialitate publicată în editură din străinătate	Punctaj
	Cb1. Curteanu S., Dragoi E.N., Blaga A.C. , Galaction A.I., Cascaval D.- Neuroevolutionary algorithms applied for modelling some biochemical separation processes, Artificial Neural Networks, 2021, pp.115-138, volume 2190, Humana Press, Springer, ISBN: 978-1—0716-0825-8	(6*23/100)/5 = 0.276

Cb	Cb2. Belhacene K., Ungureanu I., Grosu E., Blaga A.C. , Dhulster P, Froidevaux R. - From a Sequential to a Continuous Approach for LVV-h7 Preparation during Enzymatic Proteolysis in a Microfluidic-Based Extraction Process, Kinetics of Enzymatic Synthesis, 2019, pp 95-111, IntechOpen, Lodon, UK, ISBN: 978-1-78985-030-7	(6*16/100)/6=0.16
	Capitol carte de specialitate publicată în editură din țara	
	Cb3. D. Suteu, C. Zaharia, A.C. Blaga , Chap. 12, "The action of microorganisms from organic pollutants in water, air, soil", in "Current topics, concepts and research priorities in environmental chemistry", Vol.II, . Zaharia (Ed.), 2013, Editura Univ. A.I.Cuza, Iasi, Romania, ISBN 978-973-703-797-8 / 978-973-703-798-5 (259-274)- 15 pg	(15*3/100)/3 = 0.15
	Cb4. D. Suteu, C. Zaharia, A.C. Blaga , Chap. 10 "Biosorption – current bioprocess for wastewater treatment", in "Current topics, concepts and research priorities in environmental chemistry", Vol.I, Zaharia (Ed.), 2012, Editura Univ. A.I.Cuza, Iasi, Romania, ISBN 978-973-703-797-8 / 978-973-703-798-5 (221-244)- 23pg	(23*3/100)/3 =0.23
	Cb5. Blaga AC , Cașcaval D. – Separarea directă a produselor de biosinteza, Biotehnologia, între știința și arta, Ed. Venus, 31 pp: 95-126, 2007, ISBN 978-973-756-052-0	(31*3/100)/2 = 0.465
		1.281

5. Articole/ studii publicate în reviste din țară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), creații artistice prezentate la manifestări recunoscute din țară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor științifice naționale/ internaționale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum și alte lucrări (N1, N2 etc.) prin care se aduc contribuții științifice la dezvoltarea domeniului.

	Articol publicat în revistă cotate ISI, cu factor de impact	
	R1. Blaga, A.C. , Dragoi, E.N., Cascaval, D. et al. <i>Extraction of mandelic acid with ionic liquids: parametric study, model and process optimization with L-SHADE</i> . Sci Rep 2025 15, 42677. https://doi.org/10.1038/s41598-025-26825-0	1.2
	R2. Blaga, A.C. ; Parvulescu, O.C.; Cascaval, D.; Galaction, A.I. <i>Efficient Recovery of Valeric Acid Using Phosphonium-Based Ionic Liquids</i> . Int. J. Mol. Sci. 2025, 26, 8970. https://doi.org/10.3390/ijms26188970	1.5
	R3. Turcov, D.; Paraschiv, M.; Blaga, A.C. ; Tucaliuc, A.; Cascaval, D.; Galaction, A.-I. <i>Natural Oils as Green Solvents for Reactive Extraction of 7-Aminocephalosporanic Acid: A Sustainable Approach to Bioproduct Recovery in Environmental Biotechnology</i> . Biomolecules 2025, 15, 1371. https://doi.org/10.3390/biom15101371	1
	R4. Blaga, A.C. ; Cimpoesu, R.; Tataru-Farmus, R.-E.; Suteu, D. <i>Eco-Friendly Biosorbents from Biopolymers and Food Waste for Efficient Dye Removal from Wastewater</i> . Polymers 2025, 17, 291. https://doi.org/10.3390/polym17030291	1.2
	R5. Dragoi, E.N., Blaga, A.C. (corresponding author), Cascaval, D., Galaction, A.I. - <i>Experimental, modeling and optimisation of adipic acid reactive extraction using ionic liquids</i> , Journal of Molecular Liquids, 2024, 410, 125564, https://doi.org/10.1016/j.molliq.2024.125564	1.5
	R6. Blaga, A.C. , Dragoi, E.N., Tucaliuc, A., Kloetzer L., Puitel A.C., Cascaval, D., Galaction, A.I. - <i>Reactive extraction of muconic acid by hydrophobic phosphonium ionic liquids - Experimental, modelling and optimisation with Artificial Neural Networks</i> , Heliyon, 2024, 10(16), e36113, https://doi.org/10.1016/j.heliyon.2024.e36113	0.85
	R7. Blaga, A.C. ; Kloetzer, L.; Cascaval, D.; Galaction, A.-I.; Tucaliuc, A. <i>Studies on Reactive Extraction of Itaconic Acid from Fermentation Broths</i> . Processes 2024, 12, 725. https://doi.org/10.3390/pr12040725	1.2
	R8. Maxim, C.; Blaga, A.C. ; Cimpoesu, R.; Zinicovscaia, I.; Peshkova, A.; Danu, M.; Barna, A.S.; Suteu, D. <i>Natural Antioxidants from Acmella oleracea Extract as Dermatocosmetic Actives</i> . Scientia Pharmaceutica 2024, 92(3), 52. https://doi.org/10.3390/scipharm92030052	0.75
	R9. Maxim, C.; Blaga, A.C. ; Tataru-Farmus, R.-E.; Suteu, D. <i>Acmella oleracea Metabolite Extraction Using Natural Deep Eutectic Solvents</i> . Processes 2024, 12, 1686. https://doi.org/10.3390/pr12081686	1.5
	R10. Blaga, A.C. ; Dragoi, E.N.; Gal, D.G.; Puitel, A.C.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D.; Galaction, A.I. - <i>Selective separation of vitamin C by reactive extraction using ionic liquid: Experimental and modelling</i> , Journal of Industrial and Engineering Chemistry, 2024, https://doi.org/10.1016/j.jiec.2023.11.057	0.75
	R11. Blaga, A.C. ; Gal, D.G.; Tucaliuc, A. <i>Recent Advances in Muconic Acid Extraction Process</i> . Appl. Sci. 2023, 13, 11691. https://doi.org/10.3390/app132111691	2

R12. Blaga, A.C.; Dragoi, E.N.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D. <i>Folic Acid Ionic-Liquids-Based Separation: Extraction and Modelling</i> . <i>Molecules</i> 2023, 28, 3339. https://doi.org/10.3390/molecules28083339	1.2
R13. Rusu, L.; Suceveanu, E.M.; Blaga, A.C. ; Nedeff, FM; Suteu, D - <i>Insights into Recent Advances of Biomaterials Based on Microbial Biomass and Natural Polymers for Sustainable Removal of Pharmaceuticals Residues</i> , <i>Polymers</i> 2023, 15 (13), https://doi.org/10.3390/polym15132923	1.2
R14. Popescu, V; Blaga, AC ; Cascaval, D; Popescu, A - <i>Beta vulgaris L.-A Source with a Great Potential in the Extraction of Natural Dyes Intended for the Sustainable Dyeing of Wool</i> , <i>Plants-Basel</i> 2023, 12 (10), https://doi.org/10.3390/plants12101933	1.5
R15. Kloetzer, L; Blaga, A.C. ; Cascaval, D; Galaction, AI - <i>Selective pertraction of dicarboxylic acids from simulated Rhizopus oryzae fermentation broths</i> , <i>Scientific Reports</i> 2023, 13 (1), https://doi.org/10.1038/s41598-023-34100-3	1.5
R16. Blaga, A.C. ; Dragoi, E.N.; Tucaliuc, A.; Kloetzer, L.; Cascaval, D. <i>Folic Acid Ionic-Liquids-Based Separation: Extraction and Modelling</i> . <i>Molecules</i> 2023, 28, 3339. https://doi.org/10.3390/molecules28083339	1.2
R17. Blaga, A.C. ; Dragoi, E.N.; Munteanu, R.E.; Cascaval, D.; Galaction, A.I. <i>Gallic Acid Reactive Extraction with and without 1-Octanol as Phase Modifier: Experimental and Modeling</i> . <i>Fermentation</i> 2022, 8, 633. https://doi.org/10.3390/fermentation8110633	1.2
R18. Suditu G.D., Blaga A.C. (autor corespondent), Tataru-Farmus R.E., Zaharia C., Suteu D. - <i>Statistical Analysis and Optimization of the Brilliant Red HE-3B Dye Biosorption onto a Biosorbent Based on Residual Biomass</i> , <i>Materials</i> 2022, 15(20), 7180; https://doi.org/10.3390/ma15207180	1.2
R19. Blaga, AC ; Tucaliuc, A; Kloetzer, L - <i>Applications of Ionic Liquids in Carboxylic Acids Separation, Membranes</i> , 2022, 12 (8), 771, https://doi.org/10.3390/membranes12080771	2
R20. Tucaliuc, A; Cislaru, A ; Kloetzer, L ; Blaga, AC (autor corespondent) - <i>Strain Development, Substrate Utilization, and Downstream Purification of Vitamin C, Processes</i> , 2022, 10 (8), 1595, https://doi.org/10.3390/pr10081595	1.5
R21. Blaga, AC ; Tanasa, AM; Cimpoesu, R; Tataru-Farmus, RE; Suteu, D - <i>Biosorbents Based on Biopolymers from Natural Sources and Food Waste to Retain the Methylene Blue Dye from the Aqueous Medium</i> , <i>Polymers</i> , 2022, 14 (13), 2728, https://doi.org/10.3390/polym14132728	1.2
R22. Blaga, AC ; Cascaval, D; Galaction, AI - <i>Improved Production of alpha-Amylase by Aspergillus terreus in Presence of Oxygen-Vector</i> , <i>Fermentation</i> , 2022, 8 (6), 271, https://doi.org/10.3390/fermentation8060271	2
R23. Suteu, D.; Blaga, A.C. ; Cimpoesu, R.; Puițel, A.C.; Tataru-Farmus, R.-E.- <i>Composites Based on Natural Polymers and Microbial Biomass for Biosorption of Brilliant Red HE-3B Reactive Dye from Aqueous Solutions</i> . <i>Polymers</i> 2021, 13, 4314, https://doi.org/10.3390/polym13244314	1.2
R24. Rusu, L.; Grigoraș, C.-G.; Simion, A.-I.; Suceveanu, E.-M.; Blaga, A.-C. ; Harja, M. <i>Encapsulation of Saccharomyces pastorianus Residual Biomass in Calcium Alginate Matrix with Insights in Ethacridine Lactate Biosorption</i> . <i>Polymers</i> 2022, 14, 170, https://doi.org/10.3390/polym14010170	1
R25. Popescu, V.; Blaga, A.C. ; Pruneanu, M.; Cristian, I.N.; Pișlaru, M.; Popescu, A.; Rotaru, V.; Crețescu, I.; Cașcaval, D. <i>Green Chemistry in the Extraction of Natural Dyes from Colored Food Waste, for Dyeing Protein Textile Materials</i> . <i>Polymers</i> 2021, 13, 3867, https://doi.org/10.3390/polym13223867	0.66
R26. 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.; Crețescu, I.; Chelariu, P.; Marin, M. <i>Sustainable Functionalization of PAN to Improve Tintorial Capacity</i> . <i>Polymers</i> 2021, 13, 3665, https://doi.org/10.3390/polym13213665	0.37
R27. Blaga, AC ; Zaharia C.; Suteu D. - <i>Polysaccharides as support for microbial biomass-based adsorbents with applications in removal of heavy metals and dyes</i> , <i>Polymers</i> 2021, 13, 2893, https://doi.org/10.3390/polym13172893	2
R28. Galaction, AI; Blaga, AC ; Tucaliuc, A; Kloetzer, L; Cascaval, D - <i>Modelling of ergosterol production by S. cerevisiae in presence of n-dodecane as oxygen-vector</i> , <i>ROMANIAN BIOTECHNOLOGICAL LETTERS</i> , 26 (2), 2464-2470, 2021, https://doi.org/10.25083/rbl/26.2/2464.2470	1.2
R29. Lazar, RG; Blaga, AC ; Dragoi, EN; Galaction, AI; Cascaval, D - <i>Application of reactive extraction for the separation of pseudomonic acids: Influencing factors, interfacial mechanism, and process modelling</i> , <i>Canadian Journal Of Chemical Engineering</i> , 2022; 100, S246–S257, https://doi.org/10.1002/cjce.24124	1.2

R30. Lazar, RG; Blaga , AC; Dragoi, EN; Galaction, AI; Cascaval, D - <i>Mechanism, influencing factors exploration and modelling on the reactive extraction of 2-ketogluconic acid in presence of a phase modifier</i> , Separation and Purification Technology, 255, 2021, 117740, https://doi.org/10.1016/j.seppur.2020.117740	1.2
R31. L.I.Horciu, C. Zaharia, A.C. Blaga , L. Rusu, D. Suteu - <i>Brilliant Red HE-3B Dye Biosorption by Immobilized Residual Consortium Bacillus sp. Biomass: Fixed-Bed Column Studies</i> , Appl. Sci. 2021, 11, 4498, https://doi.org/10.3390/app11104498	1.2
R32. Estevinho, B. N.; Horciu L.; Blaga , A. C., Rocha F. - <i>Development of Controlled Delivery Functional Systems by Microencapsulation of Different Extracts of Plants: Hypericum perforatum L., Salvia officinalis L. and Syzygium aromaticum</i> , Food and Bioprocess Technology, 14 (8), 2021, 1503-1517. https://doi.org/10.1007/s11947-021-02652-9	1.5
R33. Estevinho, B.N.; Lazar, R.; Blaga , A.C.; Rocha F. - <i>Preliminary evaluation and studies on the preparation, characterization and in vitro release studies of different biopolymer microparticles for controlled release of folic acid</i> , Powder Technology, 369, 279-288, 2020. https://doi.org/10.1016/j.powtec.2020.05.048	1.5
R34. Tucaliuc, A; Blaga , AC; Galaction, AI; Cascaval, D - <i>Mupirocin: applications and production</i> , Biotechnology Letters, 41, 4-5, 495-502, 2019. https://doi.org/10.1007/s10529-019-02670-w	1
R35. Bucurescu, A; Blaga , AC; Estevinho, BN; Rocha, F. - <i>Microencapsulation of Curcumin by a Spray-Drying Technique Using Gum Arabic as Encapsulating Agent and Release Studies</i> , Food And Bioprocess Technology, 11 (10), 2018, 1795-1806, https://doi.org/10.1007/s11947-018-2140-3	1.5
R36. Blaga , AC; Cascaval, D Cascaval; Kloetzer, L; Tucaliuc, A; Galaction, AI - <i>Valorization Of Microalgal Biomass</i> , Environmental Engineering And Management Journal, 17 (4), 2018,841-854	1.5
R37. Blaga , AC; Ciobanu, C; Cascaval, D; Galaction, AI - <i>Enhancement of ergosterol production by Saccharomyces cerevisiae in batch and fed-batch fermentation processes using n-dodecane as oxygen-vector</i> , Biochemical Engineering Journal, 131, 2018, 70-76, https://doi.org/10.1016/j.bej.2017.12.010	1.2
R38. Cascaval, D; Blaga , AC; Galaction, AI - <i>Diffusional effects on anaerobic biodegradation of pyridine in a stationary basket bioreactor with immobilized Bacillus spp. cells</i> , Environmental Technology, 39 (2), 2018, 240-252	1.5
R39. Kloetzer, L; Bompă, AS; Blaga , A.C.; Galaction, AI; Cascaval, D - <i>Study on rosmarinic acid separation by synergic extraction</i> , Separation Science And Technology, 53 (4), 2018, 645-654	2
R40. Matran, R.-M., Galaction, A.I., Blaga A.C., Turnea, M., Cașcaval D. - <i>Distribution of Mixing Efficiency in a Split-Cylinder Gas-Lift Bioreactor with Immobilized Yarrowia lipolytica Cells Used for Olive Oil Mill Wastewater Treatment</i> , Chemical Engineering Communications 2016, 203(5), 666-675.	1.2
R41. Madalina Poștaru, Amalia-Stela Bompă, Anca-Irina Galaction, Blaga A.C., Dan Cașcaval, <i>Comparative study on pantothenic acid separation by reactive extraction with tri-n-octylamine and di-(2-ethylhexyl) phosphoric acid</i> , Chem. Biochem. Eng. Quart. 2016, 31(1), 81-92.	1.2
R 42. Estevinho, BN; Carlan, I; Blaga , A.C.; Rocha, F - <i>Soluble vitamins (vitamin B12 and vitamin C) microencapsulated with different biopolymers by a spray drying process</i> , Powder Technology, 289, 71-78, DOI: 10.1016/j.powtec.2015.11.019	1.2
R 43. Belhacene, K; Grosu, EF; Blaga , AC; Dhulster, P ; Pinteala, M; Froidevaux, - <i>Simple Eco-Friendly Beta-Galactosidase Immobilization on Functionalized Magnetic Particles for Lactose Hydrolysis</i> , Environmental Engineering And Management Journal, 14, 3, 631-638, 2015	1.5
R44. Dan Cașcaval, Ramona Mihaela Matran, Marius Turnea, Blaga A.C., Anca-Irina Galaction, <i>Distribution of mixing efficiency in a split-cylinder gas-lift bioreactor for Yarrowia lipolytica suspensions</i> , Canadian J. Chemical Engineering 2015, 93(1), 18-28.	1
R45. Anca-Irina Galaction, Blaga A.C., Ramona Mihaela Matran, Dan Cașcaval, <i>Effect of bed configuration of immobilized biocatalysts on Penicillin G hydrolysis efficiency</i> , Korean J. of Chemical Engineering 2015, 32(2), 216-221.	1.2
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R67. Blaga A.C, Galaction AI, Cascaval D - <i>Extraction and transport of basic amino acids through liquid membranes</i> , Revista De Chimie, 58, (11), 1080-1084, 2007	2

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R69. Cascaval D, Blaga A.C , Camarut M, Galaction AI - <i>Comparative study on reactive extraction of nicotinic acid with Amberlite LA-2 and D2EHPA</i> , Separation Science And Technology, 42(2), 389-401, 2007	1.5
Articol publicat în revistă indexată în baze de date internaționale (BDI)	
R70.Vînață Mihail, Corina Cernatescu, Alexandra Cristina Blaga - <i>Natural Extracts Used To Prevent Microbial Contamination Of Cosmetic Products</i> , Buletinul Institutului Politehnic Din Iași, 68 (72), 4, 2022	1.2
R71.Daniela Șuteu, Alexandra Cristina Blaga , Carmen Zaharia, Ioana Luiza Horciu - <i>Residual biomass of Lactobacillus immobilized in alginate for orange 16 dye retention from aqueous medium</i> , Buletinul Institutului Politehnic Din Iași, 67 (71), 2021	1
R72.Tatiana Ichim, Alexandra Cristina Blaga - <i>Extraction methods of capsaicin</i> , Buletinul Institutului Politehnic Din Iași, 67 (71), 2021	2
R73.Petrila Larisa-Maria, Blaga Alexandra Cristina, Francois Krier - <i>A Review On The Optimization Of Lipopeptides Production</i> , Buletinul Institutului Politehnic Din Iași, 66 (70), 2020	1.3
R74.Alexandra Cristina Blaga , Ioana Luiza Horciu, Carmen Zaharia, Lăcrămioara Rusu, Cristina Grigoraș, Daniela Șuteu, - <i>Biosorbents based on microorganisms</i> , Buletinul Institutului Politehnic Din Iași, 66 (70), 4, 2020	0.66
R75.Horciu, I.L. Blaga , A.C., Zaharia, C., Dascălu, S., Șuteu D. - <i>Valorization Of Residual Biomass As Biosorbent: Study Of Biosorption Brilliant Red Dye From Aqueous Media</i> , Buletinul Institutului Politehnic Din Iași, 65 (69), 1, 2019	0.8
	101.707

6. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum și alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se aduc contribuții la dezvoltarea mediului educațional/ cultural/ economic/ social etc.

	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câștigate prin competiție națională sau încheiate cu institute de cercetare, companii, regii, societăți comerciale	Punctaj
	P1 Valorificarea Superioară a Biomasei Prin Recuperarea Unor Compusi Valorosi (BIOEXTR), PN-III-P1-1.1-TE-2021-0153, Director de proiect, valoare 450000 lei (Contributie 50%) 2022 – 144268/143068 – 0.5 2023 – 239551/171540 – 0.7 2024 – 66181/132195 – 0.25	43.5
	P1. Separation of some vegetal and microbial compounds by non-conventional techniques - reactive extraction and facilitated pertraction, 2007-2008 (CNCSIS-TD) – Director de proiect, valoare 50000 lei, contributie 100% 2007- 23000/41408.0 – 0.55 2008 – 27000/107860.0 – 0.25	24
	Tehnologie sustenabilă pentru procesarea reziduurilor lignocelulozice rezultate din culturile agricole în vederea integrării în economia circulară, PN-III-P2-2.1-PED-2021-3384, contract 643/2022. (director de proiect S.I.dr.ing. Adrian Puitel) 2023 – 376139/171540 – 0.22	6.6
P	P2. Obținerea de materiale cu valoare adăugată prin valorificarea subproduselor industriale (AddValueMat), PN-III-P2-2.1-PED-2019-1063, Contract: 490/2020, 2020-2022, (director de proiect Prof. dr. habil. ing. Daniela Șuteu), membru în colectiv, contributie 10% 2020: 82913/106413 – 0.07 2021: 258089/106413 – 0.24	9.3
	P3. Sisteme hibride fermentatie / reactie enzimatica – pertractie sinergica pentru productia de compusi chimici cu aplicatii farmaceutice, cosmetice si alimentare PN-III-P4-ID-PCE-2016-0100 (director de proiect Prof.dr.ing. Dan Cașcaval), membru în colectiv, contributie 10% 2018: 273065/73260 – 0.37 2019: 305126/87040 – 0.35	21.6
	P4. Microscale downstream processing toolbox for screening and process development (MICROTOOLS) Contract ERA-IB nr. 6-002/2013 (2013 – 2015), (director de proiect Prof.dr.ing. Dan Cașcaval), membru în colectiv, contributie 10% 2013: 437000/247925 – 0.17 2014: 207000/113898 – 0.18 2015: 276000/171178 – 0.16	15.3

P5. Advanced separation of biosynthetic compounds by facilitated and synergetic pertraction, PCE - IDEI PN-II-ID-PCE-2011-3-0088, contract nr. 207/5.10.2011, (director de proiect Prof.dr.ing. Dan Cașcaval), membru în colectiv, contribuție 10% 2011: 142600/102539.8 – 0.13 2012: 569250/140987 - 0.4 2013: 203012.86/247925 – 0.08	18.3
P6. Dezvoltarea unor biocatalizatori noi pentru obținerea economică a unor sintoni chirali (SYNBIOCAT), PN-II-PT-PCCA-2011-3.1-1268, contract nr. 124/2012 (responsabil partener Tulași Prof. dr. ing. Dan Cașcaval), membru în colectiv, contribuție 10% 2013: 180000/247925 – 0.07 2014: 140000/113898 – 0.12 2015: 81174/171178 – 0.04 2016: 148826/175968 – 0.08	9.3
P7. Separarea avansată prin pertracție (extracție prin membrane lichide) a compusilor de biosinteză cu utilizări medicale, alimentare și cosmetice - prioritate în contextul actual al biotehnologiei albe, PN II IDEI 57/2007, cod 317 (director de proiect Prof.dr.ing. Dan Cașcaval), contribuție 10% 2007: 50.000/41408.0 – 0.12 2008: 294154.13/107860.0 – 0.27 2009: 189000/118282.2 – 0.15 2010: 147200/117096.6 – 0.12	19.8
	167.7

Note:

(1) Fiecare lucrare este prezentată, în limba în care a fost publicată / expusă, corespunzător structurii "I, II, III, IV, V, VI", unde:

- I - indicativul (T1, T2 etc.; Ca1, Ca2 etc.; ...), care se scrie "bold" la lucrările realizate după acordarea ultimului titlu didactic/ grad profesional (**Ca1, I1** etc., după caz);
 - II - autorii în ordinea din publicație, cu scriere "bold" **a candidatului**;
 - III - *titlul*, scris "italic";
 - IV - editura sau revista sau manifestarea și/sau alte elemente de localizare, după caz;
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 - VI - anul sau perioada de realizare, după caz;
- (2) În cadrul fiecărui grup de lucrări (Ca1, Ca2 etc.; I1, I2 etc. ; ...), lucrările sunt în ordine invers cronologică;
- (3) În cazul în care o grupă de lucrări nu se regăsește în activitatea candidatului, respectiva grupă poate fi eliminată din listă;
- (4) Candidații au libertatea să completeze lista și cu alte grupe de lucrări.

Data: 18.12.2025

Candidat,
Conf.univ.dr.ing. Alexandra Cristina Blaga

