

Anexa 8 - COMISIA INGINERIE CHIMICĂ, INGINERIE MEDICALĂ, ȘTIINȚA MATERIALELOR ȘI NANOMATERIALE

STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÎNTUL SUPERIOR SI A GRADELOR PROFESIONALE DE CERCETARE – DEZVOLTARE

NTOP = număr total de articole în reviste ISI situate în top 25% (zona rosie) în calitate de autor principal. Situația revistelor în tip 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 ale 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 de contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terți 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 paginarea revistei)

Moșoarcă Giannin				
cerinte profesor				
	minim	realizat	raport realizat/minim	observatii**
NTOP	4	12	3.00	Îndeplinit
NP	20	25	1.25	Îndeplinit
FIC	30	77.52	2.584	Îndeplinit
NC	120	297	2.48	Îndeplinit
NCO	1	2	2.00	Îndeplinit

Fișa de îndeplinire a standardelor minimale_Dr.ing. Giannin Emanuel MOȘOARCĂ

	NTOP realizat = 12	NP realizat = 25		FIC realizat = 77.52		
	NTOP minim = 4	NP minim = 20		FIC minim = 30		
Nr. crt.	Articol publicat in revista cotate ISI	Autor principal	Nr. total autori	Ultimul Factor de impact ISI	FIC	Quartila
1	Adina Negrea, Vasile Pode, Petru Negrea, Aurel Iovi, Lavinia Lupa, Mihaela Ciopec, Moșoarcă Giannin , Study concerning phosphate ions removal using the method of precipitation-coagulation process modelling (Studii asupra procesului de eliminare prin precipitare-coagulare a ionului fosfat. Modelarea procesului), Revista de Chimie, 2007, 58(10), 999-1003. WOS:000254644400030		7	0	0	Q3
2	Lavinia Lupa, Petru Negrea, Adina Negrea, Aurel Iovi, Laura Cocheci, Mosoarca Giannin , Modelling and automation of the phosphate ions removal process from waste waters, Brazilian Journal of Chemical Engineering, 2008, 25(1), 9-17. WOS:000255631500002		6	1.772	0.295	Q3
3	Mosoarca Giannin , Petru Negrea, Marilena Motoc, Mihaela Craciunescu, Mariana Anghel, Dana David, Influence of Settling Tank Sludge Recycling on Aluminum Residual Form Distribution in Treated Water, Revista de Chimie, 2009, 60(6), 636-640. WOS:000267571000021	1	6	0	0	Q3
4	Mosoarca Giannin , Vasile Pode, Studies regarding the improvement coagulation process of Bega river water suspensions, Revista de Chimie, 2009, 60(8), 836-838. WOS:000269163700021	1	2	0	0	Q3
5	Carmen Beinsan, Mosoarca Giannin , Radu Sumalan, Dorin Camen , Petru Negrea, Adina Negrea, Studies Regarding Tailings Pond Seepage Water from Mining Activities over <i>Avena sativa</i> L. Germination Influence, Notulae Botanicae Horti Agrobotanici Cluj Napoca, 2009, 37(1), 187-190. WOS:000267786300031		6	1.249	0.208	Q4
6	Cosmin Vancea, Mosoarca Giannin , Adina Negrea, Marilena Motoc, Dana Kaycsa, Corina Samoila, Molybdenum-phosphate Glass with High MoO ₃ Content, Revista de Chimie, 2010, 61(9), 848-852. WOS:000284137400009		6	0	0	Q3

Fișa de îndeplinire a standardelor minimale_Dr.ing. Giannin Emanuel MOȘOARCĂ

7	Mosoarca Giannin , Negrea Petru, Vancea Cosmin, Motoc Marilena, Anghel Mariana, David Dana, Studies Regarding the Effect of Fly Ash used on Coagulation-settling Process of Water Suspensions, Revista de Chimie, 2010, 61(10), 983-985. WOS:000284244800016	1	6	0	0	Q3
8	Mosoarca Giannin , Adina Negrea, Studies Regarding the Effects of Settling Tanks Sludge Recycling on Organic Matter Concentration from Treated Water, Journal of Environmental Protection and Ecology, 2012, 13(1), 198-202. WOS:000302843500026	1	2	0.507	0.507	Q4
9	Lazau Ioan, Vancea Cosmin, Mosoarca Giannin , New vitreous matrix for the lead wastes immobilization, Revista Romana de Materiale/ Romanian Journal of Materials, 2013, 43(2), 210-217. WOS:000320638300011		3	0.628	0.209	Q4
10	Cosmin Vancea, Giannin Mosoarca , Adina Negrea, Adina Latia, Romul Marius Jurca, New glass-ceramic matrix for the chromium wastes immobilization, Revista Romana de Materiale/ Romanian Journal of Materials, 2016, 46(3), 296-302. WOS:000383730900006		5	0.628	0.126	Q4
11	Marius Gheju, Ionel Balcu, Giannin Mosoarca , Removal of Cr(VI) from aqueous solutions by adsorption on MnO ₂ , Journal of Hazardous Materials, 2016, 310, 270-277. WOS:000374804000030		3	14.224	4.741	Q1
12	Cosmin Vancea, Marius Gheju, Giannin Mosoarca , Inertization in vitreous matrix of exhausted reactive mixtures resulted from the removal of Cr(VI) with FeO in continuous-flow system, Revista Romana de Materiale/ Romanian Journal of Materials, 2017, 47(4), 435-441. WOS:000418507100003	1	3	0.628	0.628	Q4
13	Cosmin Vancea, Romul Marius Jurca, Marius Gheju, Giannin Mosoarca , Eco-friendly solution for wastes resulted from the removal of Cr(VI) with FeO immobilization in glass based stoneware matrix, Revista Romana de Materiale/ Romanian Journal of Materials, 2018, 48(3), 308-314. WOS:000452733000004	1	4	0.628	0.628	Q4

Fișa de îndeplinire a standardelor minimale_Dr.ing. Giannin Emanuel MOȘOARCĂ

14	Giannin Mosoarca , Cosmin Vancea, Simona Popa, Sorina Boran, Adsorption, Bioaccumulation and Kinetics Parameters of the Phytoremediation of Cobalt from Wastewater Using <i>Elodea canadensis</i> , Bulletin of Environmental Contamination and Toxicology, 2018, 100(5), 733-739. WOS:000430187200023	1	4	2.807	2.807	Q3
15	Simona Popa, Sorina Boran, Giannin Mosoarca , Cosmin Vancea, Heat transfer influence on fractionation in flooded packed columns, Studia Universitatis Babes-Bolyai Chemia, 2019, 64(3), 143-152. WOS:000489744800013	1	4	0.558	0.558	Q4
16	Sorina Boran, Andra Tamas, Giannin Mosoarca , Soybean Bioester Obtained in a Bubble Column Esterification Reactor – A Rheological Study, Studia Universitatis Babes-Bolyai Chemia, 2019, 64(4), 31-36. WOS:000503866100003		3	0.558	0.186	Q4
17	Mosoarca Giannin , Vancea Cosmin, Popa Simona, Boran Sorina, Tanasie Cristian, A green approach for treatment of wastewater with manganese using wood ash, Journal of Chemical Technology and Biotechnology, 2020, 95(6), 1781-1789. WOS:000530688600018	1	5	3.709	3.709	Q2
18	Adina Negrea, Maria Mihailescu, Giannin Mosoarca , Mihaela Ciopec, Narcis Duteanu, Petru Negrea, Vasile Minzatu, Estimation on Fixed-Bed Column Parameters of Breakthrough Behaviors for Gold Recovery by Adsorption onto Modified/Functionalized Amberlite XAD7, International Journal of Environmental Research and Public Health, 2020, 17(18), 6868. WOS:000582452000001	1	7	4.614	4.614	Q1
19	Simona Popa, Marius Silviu Milea, Sorina Boran, Sabina Violeta Nitu, Giannin Emanuel Mosoarca , Cosmin Vancea, Radu Ioan Lazau, Rapid adulteration detection of cold pressed oils with their refined versions by UV–Vis spectroscopy, Scientific Reports, 2020, 10(1), 16100. WOS:000577212800012		7	4.996	0.714	Q1 la momentul publicarii
20	Giannin Mosoarca , Cosmin Vancea, Simona Popa, Marius Gheju, Sorina Boran, <i>Syringa vulgaris</i> leaves powder a novel low-cost adsorbent for methylene blue removal: isotherms, kinetics, thermodynamic and optimization by Taguchi method, Scientific Reports, 2020, 10(1), 17676. WOS:000585197800006	1	5	4.996	4.996	Q1 la momentul publicarii

Fișa de îndeplinire a standardelor minimale_Dr.ing. Giannin Emanuel MOȘOARCĂ

21	Cosmin Vancea, Maria Mihailescu, Adina Negrea, Giannin Mosoarca , Mihaela Ciopec, Narcis Duteanu, Petru Negrea, Vasile Minzatu, Batch and fixed bed column studies on palladium recovery from acidic solution by modified MgSiO ₃ , International Journal of Environmental Research and Public Health, 2020, 17(24), 9500. WOS:000602790200001	1	7	4.614	4.614	Q1
22	Sorina Boran, Giannin Mosoarca , Sabina Nitu, Cosmin Vancea, Citrus butanol esters having plasticizing and lubricant characteristics obtained in a bubble column type reactor, Studia Universitatis Babeș-Bolyai Chemia, 2021, 66(1), 105-113. WOS:000637282000009	1	4	0.558	0.558	Q4
23	Simona Popa, Maria Elena Radulescu-Grad, Alina Perdivara, Giannin Mosoarca , Aspects regarding colour fastness and adsorption studies of a new azo-stilbene dye for acrylic resins, Scientific Reports, 2021, 11(1), 5889. WOS:000630515100013	1	4	4.996	4.996	Q1 la momentul publicarii
24	Cosmin Vancea, Giannin Mosoarca , Simona Popa, A sustainable solution to obtain P-K-Mn glass fertilizers from cheap and readily available wastes, International Journal of Environmental Research and Public Health, 2021, 18(12), 6585. WOS:000666192100001	1	3	4.614	4.614	Q1
25	Mihaela Ciopec, Oana Grad, Adina Negrea, Narcis Duteanu, Petru Negrea, Cristina Paul, Catalin Ianasi, Giannin Mosoarca , Cosmin Vancea, A new perspective on adsorbent materials based impregnated MgSiO ₃ with crown ethers for palladium recovery, International Journal of Molecular Sciences, 2021, 22(19), 10718. WOS:000709273600001	1	10	6.208	6.208	Q1
26	Giannin Mosoarca , Simona Popa, Cosmin Vancea, Sorina Boran, Optimization, Equilibrium and Kinetic Modeling of Methylene Blue Removal from Aqueous Solutions Using Dry Bean Pods Husks Powder, Materials, 2021, 14(19), 5673. WOS:000707999100001	1	4	3.748	3.748	Q1
27	Giannin Mosoarca , Cosmin Vancea, Simona Popa, Sorina Boran, Bathurst burr (<i>Xanthium spinosum</i>) powder a new natural effective adsorbent for crystal violet dye removal from synthetic wastewaters, Materials, 2021, 14(19), 5861. WOS:000706496900001	1.000	4	3.748	3.748	Q1

Fișa de îndeplinire a standardelor minimale_Dr.ing. Giannin Emanuel MOȘOARCĂ

28	Simona Popa, Andra Tamas, Vasile Simulescu, Dorin Jurcau, Sorina Boran, Giannin Mosoarca , A Novel Approach of Bioesters Synthesis through Different Technologies by Highlighting the Lowest Energetic Consumption One, Polymers, 2021, 13(23), 4190. WOS:000734584000001	1	6	4.967	4.967	Q1
29	Giannin Mosoarca , Cosmin Vancea, Simona Popa, Sorina Boran, Optimization of crystal violet adsorption on common lilac tree leaf powder as natural adsorbent material, Global NEST Journal, 2022, 24(1), 87-96. WOS:000797022700011	1	4	1.134	1.134	Q4
30	Simona Popa, Giannin Mosoarca , Lavinia Macarie, Nicoleta Plesu, Gheorghe Ilia, Milica Tara-Lunga-Mihali, Copolymerization of butyl acrylate with methyl methacrylate in a bubble column reactor and the use of copolymer in corrosion protection, Polymer Bulletin, 2022, 79(2), 763-783. WOS:000606768300001		6	2.843	0.474	Q2 la momentul publicarii
31	Giannin Mosoarca , Cosmin Vancea, Simona Popa, Mircea Dan, Sorina Boran, The Use of Bilberry Leaves (<i>Vaccinium myrtillus</i> L.) as an Efficient Adsorbent for Cationic Dye Removal from Aqueous Solutions, Polymers, 2022, 14(5), 978. WOS:000768735700001	1	5	4.967	4.967	Q1
32	Giannin Mosoarca , Simona Popa, Cosmin Vancea, Mircea Dan, Sorina Boran, Removal of methylene blue from aqueous solutions using a new natural lignocellulosic adsorbent - raspberry (<i>Rubus idaeus</i>) leaves powder, Polymers, 2022, 14(10), 1966. WOS:000803656800001	1	5	4.967	4.967	Q1
33	Giannin Mosoarca , Cosmin Vancea, Simona Popa, Maria Elena Radulescu-Grad, Sorina Boran, Powdered adsorbent obtained from bathurst burr biomass for methylene blue removal from aqueous solutions, Journal of the Serbian Chemical Society, 2022. WOS:000835424700001	1	5	1.100	1.100	Q4
34	Sabina Nitu, Marius Silviu Milea, Sorina Boran, Giannin Mosoarca , Alina D. Zamfir, Simona Popa, Simona Funar-Timofei, Experimental and Computational Study of Novel Pyrazole Azo Dyes as Colored Materials for Light Color Paints, Materials, 2022, 15, 5507. WOS:000845560100001		7	3.748	0.535	Q1
35	Giannin Mosoarca , Cosmin Vancea, Simona Popa, Sorina Boran, Maria Elena Radulescu-	1	5	0.0	0.0	Q4

Fișa de îndeplinire a standardelor minimale_Dr.ing. Giannin Emanuel MOȘOARCA

	Grad, Crystal violet removal from aqueous solutions using dry bean pods husks powder - optimization and desorption studies, Ovidius University Annals Of Chemistry, 2022, 33(2), 129-134. WOS:000843699700001					
36	Giannin Mosoarca , Cosmin Vancea, Simona Popa, Mircea Dan, Sorina Boran, Crystal violet adsorption on eco-friendly lignocellulosic material obtained from motherwort (<i>Leonurus cardiaca</i> L.) biomass, Polymers, 2022, 14, 3825. WOS:000856988400001	1	5	4.967	4.967	Q1
	Brevete nationale					
1	Gheju Marius, Balcu Ionel, Mosoarca Giannin , Vancea Cosmin, Compozitie sinergica reactiva pentru tratarea apelor poluate cu crom hexavalent, Brevet de inventie, nr. 132867, 30.08.2021			1	1	
	TOTAL	25		100.68	77.52	

NTOP = număr total de articole în reviste ISI situate in top 25% (zona rosie) în calitate de autor principal

NTOP = 12

1. Adina Negrea, Maria Mihailescu, **Giannin Mosoarca**, Mihaela Ciopec, Narcis Duteanu, Petru Negrea, Vasile Minzatu, Estimation on Fixed-Bed Column Parameters of Breakthrough Behaviors for Gold Recovery by Adsorption onto Modified/Functionalized Amberlite XAD7, *International Journal of Environmental Research and Public Health*, **2020**, 17(18), 6868. <https://doi.org/10.3390/ijerph17186868>
IF = 4.614, Q1, WOS:000582452000001

2. **Giannin Mosoarca**, Cosmin Vancea, Simona Popa, Marius Gheju, Sorina Boran, *Syringa vulgaris* leaves powder a novel low-cost adsorbent for methylene blue removal: isotherms, kinetics, thermodynamic and optimization by Taguchi method, *Scientific Reports*, **2020**, 10(1), 17676. <https://doi.org/10.1038/s41598-020-74819-x>
IF = 4.996, Q1 (la momentul publicării), WOS:000585197800006

3. Cosmin Vancea, Maria Mihailescu, Adina Negrea, **Giannin Mosoarca**, Mihaela Ciopec, Narcis Duteanu, Petru Negrea, Vasile Minzatu, Batch and fixed bed column studies on palladium recovery from acidic solution by modified MgSiO₃, *International Journal of Environmental Research and Public Health*, **2020**, 17(24), 9500. <https://doi.org/10.3390/ijerph17249500>
IF = 4.614, Q1, WOS:000602790200001

4. Simona Popa, Maria Elena Radulescu-Grad, Alina Perdivara, **Giannin Mosoarca**, Aspects regarding colour fastness and adsorption studies of a new azo-stilbene dye for acrylic resins, *Scientific Reports*, **2021**, 11(1), 5889. <https://doi.org/10.1038/s41598-021-85452-7>
IF = 4.996, Q1 (la momentul publicării), WOS:000630515100013

5. Cosmin Vancea, **Giannin Mosoarca**, Simona Popa, A sustainable solution to obtain P-K-Mn glass fertilizers from cheap and readily available wastes, *International Journal of Environmental Research and Public Health*, **2021**, 18(12), 6585. <https://doi.org/10.3390/ijerph18126585>
IF = 4.614, Q1, WOS:000666192100001
6. Mihaela Ciopec, Oana Grad, Adina Negrea, Narcis Duteanu, Petru Negrea, Cristina Paul, Catalin Ianasi, **Giannin Mosoarca**, Cosmin Vancea, A new perspective on adsorbent materials based impregnated MgSiO₃ with crown ethers for palladium recovery, *International Journal of Molecular Sciences*, **2021**, 22(19), 10718. <https://doi.org/10.3390/ijms221910718>
IF = 6.208, Q1, WOS:000709273600001
7. **Giannin Mosoarca**, Simona Popa , Cosmin Vancea, Sorina Boran, Optimization, Equilibrium and Kinetic Modeling of Methylene Blue Removal from Aqueous Solutions Using Dry Bean Pods Husks Powder, *Materials*, **2021**, 14(19), 5673. <https://doi.org/10.3390/ma14195673>
IF = 3.748, Q1, WOS:000707999100001
8. **Giannin Mosoarca**, Cosmin Vancea, Simona Popa, Sorina Boran, Bathurst burr (*Xanthium spinosum*) powder a new natural effective adsorbent for crystal violet dye removal from synthetic wastewaters, *Materials*, **2021**, 14(19), 5861. <https://doi.org/10.3390/ma14195861>
IF = 3.748, Q1, WOS:000706496900001
9. Simona Popa, Andra Tamas, Vasile Simulescu, Dorin Jurcau, Sorina Boran, **Giannin Mosoarca**, A Novel Approach of Bioesters Synthesis through Different Technologies by Highlighting the Lowest Energetic Consumption One, *Polymers*, **2021**, 13(23), 4190. <https://doi.org/10.3390/polym13234190>
IF = 4.967, Q1, WOS:000734584000001
10. **Giannin Mosoarca**, Cosmin Vancea, Simona Popa, Mircea Dan, Sorina Boran, The Use of Bilberry Leaves (*Vaccinium myrtillus* L.) as an Efficient Adsorbent for Cationic Dye Removal from Aqueous Solutions, *Polymers*, **2022**, 14(5), 978. <https://doi.org/10.3390/polym14050978>
IF = 4.967, Q1, WOS:000768735700001
11. **Giannin Mosoarca**, Simona Popa, Cosmin Vancea, Mircea Dan, Sorina Boran, Removal of methylene blue from aqueous solutions using a new natural lignocellulosic adsorbent - raspberry (*Rubus idaeus*) leaves powder, *Polymers*, **2022**, 14(10), 1966. <https://doi.org/10.3390/polym14101966>
IF = 4.967, Q1, WOS:000803656800001
12. **Giannin Mosoarca**, Cosmin Vancea, Simona Popa, Mircea Dan, Sorina Boran, Crystal violet adsorption on eco-friendly lignocellulosic material obtained from motherwort (*Leonurus cardiaca* L.) biomass, *Polymers*, **2022**, 14, 3825. <https://doi.org/10.3390/polym14183825>
IF = 4.967, Q1, WOS:000856988400001

Număr total de citări (din baza SCOPUS) (fără autocitări)

NC = 297

Nr. crt.	Articol publicat in revista cotate ISI	Locul unde a fost citată
1	<p>Adina Negrea, Vasile Pode, Petru Negrea, Aurel Iovi, Lavinia Lupa, Mihaela Ciopec, Mosoarca Giannin, Study concerning phosphate ions removal using the method of precipitation-coagulation process modelling (Studii asupra procesului de eliminare prin precipitare-coagulare a ionului fosfat. Modelarea procesului), <i>Revista de Chimie</i>, 2007, 58(10), 999-1003. WOS:000254644400030</p> <p>4 citări</p>	<p>1. Muntenita, C., Balanica, C.M.D., Simionescu, A.G., Stanciu, S., Popa, C.L., The efficiency of biological total phosphorus removal process, <i>Revista de Chimie</i>, 2019, 70(6), 1920-1923. https://doi.org/10.37358/RC.19.6.7247</p> <p>2. Mihai, M., Dablia, G., Costache, C., Vaireanu, D.I., Anionic polymer - cationic surfactant complex used in the coagulation and flocculation processes, <i>Revista de Chimie</i>, 2010, 61(5), 449-454. https://bch.ro/pdfRC/MIHAI%20M.pdf%205%2010.pdf</p> <p>3. Mihai, M., Dabija, G., Costache, C., Vaireanu, D.I., Complex formation between weak anionic polyelectrolyte and medium cationic surfactant, <i>Revista de Chimie</i>, 2010, 61(1), 36-40. https://bch.ro/pdfRC/MIHAI%20M%201%2010.pdf</p> <p>4. Cical, E., Oprea, G., Mihali, C., Ardelean, L., Burtică, G., Lupa, L., Systematic studies regarding the introduction of a new product in the flow of drinking water of an atypical surface source, <i>Revista de Chimie</i>, 2008, 59(9), 1030-1035. https://doi.org/10.37358/RC.08.9.1963</p>
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NCO = numar de contracte de cercetare-dezvoltare-inovare obtinute prin competitie la nivel national sau international ori contracte de cercetare-dezvoltare-inovare cu terti in valoare minima echivalenta cu 10 000 Euro

NCO = 2

Contracte de cercetare-dezvoltare-inovare obtinute prin competitie la nivel national

1. Director grant CNCSIS cu titlul "Studii privind prezenta si indepartarea aluminiului rezidual din apa potabila", *Grant CNCSIS tip AT, Cod CNCSIS 212, Nr. 33550, 2003, valoare 2880 RON.*
https://uefiscdi.gov.ro/UserFiles/File/Competitii%20derulate/Rez_2003_AT_finantate_noi.pdf

Contracte de cercetare-dezvoltare-inovare cu terti in valoare minima echivalenta cu 10 000 Euro

1. Responsabil contract cu titlul "Determinări de laborator privind chimismul componentelor șlamului dens, rocii de cenușă și apei de infiltrație pentru termocentralele Rovinari, Turceni, Ișalnița și Drobeta", *Beneficiar: SC ISPE București SA, Nr. 337/14.10.2005, valoare 40200 RON.*

Curs valutar BNR, 14.10.2005, 1 Euro = 3.6127 RON, valoare contract echivalenta **11127,41 Euro.**

Semnătură candidat