

2_Fisa verificare Standarde_Dr.ing. Simona POPA

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

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

NTOP = număr total de articole în reviste ISI situate in top 25% (zona rosie) in calitate de autor principal.
Situatia revistelor in tip 25% se judeca pe cazul cel mai favorabil pentru candidat, fie la momentul publicarii, fie la data inscrierii la concurs

FIC = factor de impact cumulat (suma factorilor de impact ale revistelor la momentul inscrierii la concursul pentru ocuparea unei pozitii 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 autocitarile candidatului)

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

Articolele pentru calculul NTOP, FIC, NP, NC se vor lua in considerare numai daca la data publicarii revista era indexata ISI, iar la data inscrierii la concurs a candidatului articolele sun vizibile in WoS, sau daca se prezinta ca reprinturi (inclusiv cu paginatia revistei)

Profesor (minim)

NTOP≥ 4

NP ≥ 20

FIC ≥ 30

NC ≥ 120

NCO≥ 1

Popa Simona / Profesor				
cerinte				
	minim	realizat	raport realizat/minim	observatii**
NTOP	4	4	1	îndeplinit
NP	20	26	1.3	îndeplinit
FIC	30	46.024	1.53	îndeplinit
NC	120	127	1.06	îndeplinit
NCO	1	2	2	îndeplinit

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NTOP realizat =	4	NP realizat =	26
NTOPminim =	4	NP minim =	20

FIC realizat =	46.024
FIC minim =	30

Nr. crt.	Articol publicat in revista cotata ISI (vezi lista de lucrari)	Autor principal	Nr. total autori	Ultimul Factor de impact ISI	FIC (exemplu)
1	Kohn, D.; Popa, S. , Heat transfer at boiling of aqueous solutions of substances with limited solubility, Experimental Heat Transfer 1999, 12, 3, 193-202, WOS:000081746900001 , (Q2)		2	2.543	1.272
2	Popa, S. ; Csunderlik, C.; Florea, S.; Jascanu, V.; Plesu, N., The solution copolymerization of acrylates with styrene, Revista de Chimie 2002, 53, 4, 259-263, WOS:000175915800001 , (Q3)	1	5	0.693	0.693
3	Plesu, N.; Rad, R.; Manoviciu, I.; Bandur, G., Popa, S. , Reduction of Cr(VI) using polyaniline-polystyrene-divinyl benzene gels, Revista de Chimie 2003, 54, 8, 685-688, WOS:000186321000007 , (Q3)		5	0.693	0.139
4	Popa, S. ; Jascanu, V.; Jurcau, D.; Plesu, N., The influence of some parameters on the column copolymerization with bubbling, Revista de chimie 2003, 54, 7, 595-598, WOS:000185562900010 , (Q3)	1	4	0.693	0.693
5	Popa, S. ; Csunderlik, C.; Jascanu, V.; Jurcau, D., Plesu, N., Bubble gas column reactors used for polymerization, Materiale plastice 2003, 40, 4, 177-181, WOS:000187202100004 , (Q4)	1	5	1.517	1.517
6	Plesu, N.; Bandur, G.; Maniviciu, I.; Popa, S. ; Jurcau, D., Stability of semiconductive coatings based on polyaniline, Materiale Plastice, 2003, 40, 1, 21-24, WOS:000182851800006 , (Q4)		5	1.517	0.304
7	Plesu, N.; Ilia, G.; Iliescu, S.; Popa, A.; Bandur, G.; Popa, S. , Chemical Synthesis of polyaniline doped with phenilphosphinic acid, Materiale Plastice 2004, 41, 3, 143-148, WOS:000228469400005 , (Q4)		6	1.517	0.253
8	Popa, S. ; Csunderlik, C.; Jascanu, V.; Jurcau, D., Plesu, N., Influence of temperature on the polymerization solution of acrylates in a bubble column reactor, Materiale plastice 2004, 41, 2, 62-65, WOS:000222690600002 , (Q4)	1	5	1.517	1.517

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9	Plesu, N.; Ilia, G.; Bandur, G., Popa, S. , Chemical polymerization of aniline in phenylphosphinic acid, J. of the Serbian Chemical Society, 2005, 70, 10, 1169-1182, WOS:000233676900006, (Q4)		4	1.097	0.274
10	Grad, M.E.; Raditoiu, V.; Popa, S. ; Jurcau, D., Lupea, A.X., Colour and Tinctorial Behaviour of Some Chromogens Derivatives of 4,4'-diaminostilbene-2,2'-disulphonic Acid, Revista de Chimie 2008, 59, 12, 1355-1360, WOS:000261704800016, (Q3)		5	0.693	0.139
11	Popa, S. ; Pop, M.; Lupea A.X.; Turcus, V., Colour Study in CIELAB Space on Natural Colorants from Vaccinium Vitis - Idaea Fruits, Revista de Chimie 2008, 59, 10, 1160-1163, WOS:000261428800020, (Q3)	1	4	0.693	0.693
12	Pop, M.; Lupea, A.X.; Popa, S. ; Gruescu, C., Colour of Bilberry (Vaccinium Myrtillus Fruits) Extracts, International Journal of Food Properties 2010, 13, 4, 771-777, WOS:000280635700011, (Q3)		4	1.808	0.452
13	Popa, S. ; Boran, S., Aspects regarding efficiency of two experimental fractionating columns, Revue Romain de Chimie, 2015, 60, 991-995, WOS:000372212300008, (Q4)	1	2	0.381	0.381
14	Popa, S. ; Padure, M.; Gruescu, G.M., Boran, S., New salicilic acid-based azo dyes: Synthesis, characterization and colour properties, Revista de Chimie, 2015, 66, 2021-2027, WOS:000368437100022, (Q3)	1	4	0.956	0.956
15	Popa, S. ; Boran, S., Heat transfer during boiling of some aqueous-alcohol systems, Revue Romain de Chimie, 2016, 61, 851-855, WOS:000395047800004, (Q4)	1	2	0.381	0.381
16	Popa, S. ; Boran, S., Energetic efficiency calculation for a new experimental reactor, Materiale plastice, 2016, 53, 410-413, WOS:000384870300015, (Q4)	1	2	1.517	1.517
17	Popa, S. ; Boran, S., Davidescu, C., Influence of storage conditions upon CIELAB and thermal properties of sesame food oil, Revista de Chimie, 2016, 67, 1290-1293, WOS:000385513000011, (Q3)	1	3	1.232	1.232
18	Popa, S. ; Boran, S., Davidescu, C., Walnut food oil under UV radiation - Influence upon CIELAB and thermal properties of anthocyanin addition, Revista de Chimie, 2016, 67, 858-861, WOS:000378158100008, (Q3)	1	3	1.232	1.232

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19	Simona Popa , Smaranda Iliescu, Gheorghe Ilia, Nicoleta Plesu, Adriana Popa, Aurelia Visa, Lavinia Macarie, Solid polymer electrolytes based on phosphorus containing polymers for lithium polymer batteries, European Polymer Journal, Volume 2017, 94, 286-298, WOS:000411546400025 , (Q1)	1	7	3.862	3.862
20	Popa, S. ; Boran, S., CIELAB and thermal properties of sesame food oil under antocyanin and UV influence, Revista de Chimie, 2017, 68, 1499-1503, WOS:000408702900052 , (Q3)	1	2	1.412	1.412
21	Popa, S. ; Boran, S., Simulescu, V., Collagen films obtained from collagen solutions characterized by rheology, Materiale Plastice, 2017, 54, 359-361, WOS:000408702100036 , (Q4)	1	3	1.517	1.517
22	Popa, S. , Sorina Boran, Quantitative measurement of the leather degree of swelling, Studia UBB Chemia, 2017, 4(2), 391-396), DOI : 10.24193/subbchem.2017.4.33, WOS:000425964800034 , (Q4)	1	2	0.494	0.494
23	Popa, S. , Sorina Boran, Glass Packing Materials Used for Intensification of Heat Transfer at Boiling on Tubular Surfaces, Thermal Science, 2017, 21(5), 2031-2037, DOI : 10.2298/TSCI150728203P, WOS:000414237000014 , (Q3)	1	2	1.574	1.574
24	Giannin Mosoarca, Cosmin Vancea, Popa, S. , Sorina Boran, Adsorption, Bioaccumulation and Kinetics Parameters of the Phytoremediation of Cobalt from wastewater Using Elodea canadensis, Bull. of Environmental Contamination and Toxicology, 100 (5) 2018, 733-739, WOS:000430187200023 , (Q3)	1	4	1.657	1.657
25	Popa S. , Boran S., Mosoarca G., Vancea C., Heat transfer influence on fractionation in flooded packed columns, Studia UBB Chemia, 2019, 64(3), 143-152, WOS:000489744800013 , (Q4)	1	4	0.494	0.494
26	Mosoarca G., Vancea C., Popa S. , Boran S., Tanasie C., A green approach for treatment of wastewater with manganese using wood ash, J.of Chemical Technology and Biotechnology, 2020, 95(6), 1781-1789, WOS:000530688600018 , (Q2)	1	5	2.75	2.75
27	Radulescu M.E., Visa A., Milea M.S., Lazau R.I., Popa S. , Funar-Timofei S., Synthesis, spectral characterization, and theoretical investigations of a new azo-stilbene dye for acrylic resins, J. of Molecular Structure, 2020, 1217, Art.no. 128380, WOS:000544054000013 , (Q3)	1	6	2.463	2.463

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28	Simona Popa , Dorin Jurcău, Compoziție pe Bază de Copolimeri Acrilici și Procedeu de Obținere a Acesteia, Brevet de inventie 118877B / 2004	1	2	1	1
29	Simona Popa , Rodica Deatcu, Procedeu de Obținere a Plăcilor cu Efect de Sidefare, Brevet de inventie 100221 / 1989	1	2	1	1
30	Popa S. , Milea M.S., Boran S., Nitu S.V., Mosoarcă G., Vancea C., Lazău R.I., Rapid adulteration detection of cold pressed oils with their refined versions by UV-VIS spectroscopy, <i>Scientific Reports</i> , 2020, 10:16100, WOS:000577212800012 (Q1)	1	7	3.998	3.998
31	Mosoarca, G., Vancea, C., Popa, S. , Gheju, M., Boran, S., <i>Syringa vulgaris</i> leaves powder a novel low-cost adsorbent for methylene blue removal: isotherms, kinetics, thermodynamic and optimization by Taguchi method, <i>Scientific Reports</i> , 2020, 10: 17676, WOS:000585197800006 (Q1)	1	5	3.998	3.998
32	Popa, S. , Mosoarca, G., Macarie, L., Plesu, N., Ilia, G., Tara-Lunga-Mihali, M., Copolymerization of butyl acrylate with methyl methacrylate in a bubble column reactor and the use of copolymer in corrosion protection, <i>Polymer Bulletin</i> , 2021, WOS:000606768300001 (Q2)	1	6	2.014	2.014
33	Popa, S. , Rădulescu-Grad, M.E., Perdivară, A., Moșoarcă, G., Aspects regarding colour fastness and adsorption studies of a new azo-stilbene dye for acrylic resins, <i>Scientific Reports</i> , 2021, 11:5889, WOS:000630515100013, (Q1)	1	4	3.998	3.998
34	Albulescu, D., Ursu, D., Dabici, A., Birdeanu, M., Duteanu, N., Popa, S. , Miclau, M., Nitu, S., Impact of the selectivity of titanium dioxide on photovoltaic performance of anthocyanin-sensitized solar cells, <i>Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</i> , 2021, 1-15, WOS:000643899800001, (Q3)		8	1.184	0.148

NTOP - Articole *in extenso*, publicate în reviste cotate ISI cu factor de impact – quartila Q1 (zona roșie)

1. **Popa, S.**, Rădulescu-Grad, M.E., Perdivară, A., Moșoarcă, G., Aspects regarding colour fastness and adsorption studies of a new azo-stilbene dye for acrylic resins, *Scientific Reports*, 2021, 11:5889, <https://doi.org/10.1038/s41598-021-85452-7>, **WOS:000630515100013 (ISI 3.998/2019 – Q1)**
2. Mosoarca, G., Vancea, C., **Popa, S.**, Gheju, M., Boran, S., *Syringa vulgaris* leaves powder a novel low-cost adsorbent for methylene blue removal: isotherms, kinetics,

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thermodynamic and optimization by Taguchi method, *Scientific Reports*, **2020**, 10: 17676, <https://doi.org/10.1038/s41598-020-74819-x>, WOS:000585197800006 (ISI 3.998/2019 – Q1)

3. Popa S., Milea M.S., Boran S., Nitu S.V., Mosoarcă G., Vancea C., Lazău R.I., Rapid adulteration detection of cold pressed oils with their refined versions by UV-VIS spectroscopy, *Scientific Reports*, **2020**, <https://doi.org/10.1038/s41598-020-72558-7> 10:16100; WOS:000577212800012 (ISI 3.998/2019 – Q1)
4. Popa S., Iliescu S., Ilia G., Plesu N., Popa A., Visa A., Macarie L., Solid polymer electrolytes based on phosphorus containing polymers for lithium polymer batteries, *European Polymer Journal*, Volume **2017**, 94, 286-298, <https://doi.org/10.1016/j.eurpolymj.2017.07.017>; WOS:000411546400025 (ISI 3.862/2019 – Q1)

NCO – Director (P3) – Dr.ing. Simona POPA

1. New energetic efficient technologies for some polymeric copolymer synthesis - POS CCE – SMIS 50328 – 22.05.2014 (2015) – 84000 Euro
2. New energetic efficient technologies for some polymeric copolymer synthesis - POS CCE – SMIS 50328 – 22.05.2014 (2014) – 16000 Euro

NC - Citari fara autocitari - 127

Nr.crt.	Lucrarea citata	Locul citarii
1.	Kohn, D., Popa, S. , Heat transfer at boiling of aqueous solutions of substances with limited solubility, <i>Experimental Heat Transfer</i> , 1999, 12 (3), 193-202 https://doi.org/10.1080/089161599269672	1. Boran, S., Tămăș, A., Moșoarcă, G., Soybean bioester obtained in a bubble column esterification reactor – A rheological study, <i>Studia UBB Chemia</i> , 2019, 64 (4), 31-36 DOI: 10.24193/subbchem.2019.4.03 2. Boran, S., Nițu, S., Ester plasticizers based on fatty acids from soybean oil used in peliculogen compositions, <i>Studia UBB Chemia</i> , 2018, 63 (1), 63-72 ; DOI: 10.24193/subbchem.2018.1.05 3. Boran, S., Nițu, S., Synthesis and characterization of some ester-type biolubricants of soiabean fatty acids, <i>Studia UBB Chemia</i> , 2019, 54 (2), 386-389 ; DOI: 10.37358/mp.17.2.4856 4. Goldstein, R.J., Eckert, E.R.G., Ibele, W.E., Patankar, S.V., Simon, T.W., Kuehn, T.H., Strykowski, P.J., Tamma, K.K., Bar-Cohen, A., Heberlein, J.V.R., Davidson, J.H., Bischof, J., Kulacki, F.A., Kortshagen, U., Garrick, S., Heat transfer - A review of 1999 literature (Review), <i>Int.J.of Heat and Mass Transfer</i> , 2001, 44(11), 3579-3699 https://doi.org/10.1016/S0017-9310(01)00008-4 5. Boran, S., Mosoarcă, G., Nitu, S., Vancea, C., Citrus butanol esters having plasticizing and lubricant characteristics obtained in a bubble column type reactor, <i>Studia Universitatis Babes-Bolyai Chemia</i> , 2021, 66 (1),105-113, http://studia.ubbcluj.ro/download/pdf/1354.pdf
2.	Popa, S., Csunderlik, C., Florea, S., Jășcanu, V., Jurcău, D., Pleșu, N., The solution copolymerization of acrylates	1. Boran, S., Tămăș, A., Moșoarcă, G., Soybean bioester obtained in a bubble column esterification reactor – A rheological study, <i>Studia UBB Chemia</i> , 2019, 64 (4), 31-36 ; DOI: 10.24193/subbchem.2019.4.03

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	<p>with styrene, <i>Revista de chimie</i>, 2002, 53 (4), 259-263 WOS:000175915800001</p>	<p>2. Boran, S., Nițu, S., Ester plasticizers based on fatty acids from soybean oil used in peliculogen compositions, <i>Studia UBB Chemia</i>, 2018, 63 (1), 63-72 ; DOI:10.24193/subbchem.2018.1.05</p> <p>3. Boran, S., Nițu, S., Soybean bioester obtained in a bubble column esterification reactor – A rheological study, <i>Materiale Plastice</i>, 2017, 64 (4), 386-389 ; DOI: 10.37358/mp.17.2.4856</p> <p>4. Boran, S., Tămaș., A., The mixtures of castor oil and adipic esters with biolubricating characteristics, <i>Materiale Plastice</i>, 2016, 53(3), 505-508; https://revmaterialeplastice.ro/pdf/BORAN%20S%203%2016.pdf</p> <p>5. Mondek, J., Kalina, M., Simulescu, V., Pekař, M., Thermal degradation of high molar mass hyaluronan in solution and in powder; comparison with BSA, <i>Polymer Degradation and Stability</i>, 2015, 120, Art.No. 7680, 107-113 ; http://dx.doi.org/10.1016/j.polymdegradstab.2015.06.012</p> <p>6. Boran, S., Mosoarca, G., Nitu, S., Vancea, C., Citrus butanol esters having plasticizing and lubricant characteristics obtained in a bubble column type reactor, <i>Studia Universitatis Babes-Bolyai Chemia</i>, 2021, 66 (1),105-113, http://studia.ubbcluj.ro/download/pdf/1354.pdf</p>
3.	<p>Pleșu, N., Bandur, G., Manoviciu, I., Popa, S., Jurcău, D., Stability of semiconductive coatings based on polyaniline, <i>Materiale Plastice</i>, 2003, 40 (1), 21-24 ; WOS:000182851800006</p>	<p>1. Boran, S., Nițu, S., Ester plasticizers based on fatty acids from soybean oil used in peliculogen compositions, <i>Studia UBB Chemia</i>, 2018, 63 (1), 63-72 ; DOI:10.24193/subbchem.2018.1.05</p> <p>2. Boran, S., Nițu, S., Soybean bioester obtained in a bubble column esterification reactor – A rheological study, <i>Materiale Plastice</i>, 2017, 64 (4), 386-389 ; DOI: 10.37358/mp.17.2.4856</p> <p>3. Hădărugă, D.I., Hădărugă, N.G., Resiga, D., Pode, V., Dumbravă, D., Lupea, A.X., Obtaining and characterization of sage (<i>Salvia sclarea L.</i>) essential oil / β-cyclodextrin supramolecular system, <i>Revista de Chimie</i>, 2007, 58 (6), 566-573</p> <p>4. Maranescu, V., Pleșu, N., Toma, C., Căleanu, C., Tănase, M., Nonlinear thermal impedance electrical model for polymers used in electronic industry, <i>Materiale Plastice</i>, 2006, 43 (2), 165-169</p> <p>5. Bandur, G., Resiga, D., Pode, V., Aspects of the rheologic behaviour of the o-sec-butyl-phenoxyacetic acid esters, <i>Materiale Plastice</i>, 2005, 42 (3), 220-225</p> <p>6. Hădăruga, N.G., Hădărugă, D.I., Lupea, A.X., Păunescu, V., Tatu, C., Bioactive nanoparticles: 7. Essential oil from Apiaceae and Pinaceae family plants/β-cyclodextrin supramolecular system, <i>Revista de Chimie</i>, 2005, 56 (8), 876-882</p>
4.	<p>Popa, S., Csunderlik, C., Jâșcanu, V., Jurcău, D., Pleșu, N., Bubble Gas Column Reactors Used for Polymerization, <i>Materiale Plastice</i>, 2003, 40 (4), 177-181 ; WOS:000187202100004</p>	<p>1. Boran, S., Tămaș, A., Moșoarcă, G., Soybean bioester obtained in a bubble column esterification reactor – A rheological study, <i>Studia UBB Chemia</i>, 2019, 64 (4), 31-36 ; DOI: 10.24193/subbchem.2019.4.03</p> <p>2. Boran, S., Nițu, S., Ester plasticizers based on fatty acids from soybean oil used in peliculogen compositions, <i>Studia UBB Chemia</i>, 2018, 63 (1), 63-72 ; DOI:10.24193/subbchem.2018.1.05</p>

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		<p>3. Boran, S., Nițu, S., Soybean bioester obtained in a bubble column esterification reactor – A rheological study, <i>Materiale Plastice</i>, 2017, 64 (4), 386-389 ; DOI: 10.37358/mp.17.2.4856</p> <p>4. Mondek, J., Kalina, M., Simulescu, V., Pekař, M., Thermal degradation of high molar mass hyaluronan in solution and in powder; comparison with BSA, <i>Polymer Degradation and Stability</i>, 2015, 120, Art.No. 7680, 107-113 ; http://dx.doi.org/10.1016/j.polymdegradstab.2015.06.012</p>
		<p>5. Boran, S., Mosoarca, G., Nitu, S., Vancea, C., Citrus butanol esters having plasticizing and lubricant characteristics obtained in a bubble column type reactor, <i>Studia Universitatis Babes-Bolyai Chemia</i>, 2021, 66 (1), 105-113, http://studia.ubbcluj.ro/download/pdf/1354.pdf</p>
5.	<p>Pleșu, N., Rad, R., Manoviciu, I., Bandur, G., Popa, S., Reduction of Cr(VI) using polyaniline-polystyrene-divinyl benzene gels, <i>Revista de Chimie</i>, 2003, 54 (8), 685-688 ; WOS:000182851800006</p>	<p>1. Maior, I., Badea, G.E., Cojocaru, A., Cimbru, A.M., Bungau, S., Endres, L., Cr(VI) ion reduction reaction on nickel and stainless steel electrodes in acid medium, <i>Revista de Chimie</i>, 2019, 70 (7), 2321-2324 ; https://doi.org/10.37358/RC.19.7.7331</p> <p>2. Boran, S., Nițu, S., Ester plasticizers based on fatty acids from soybean oil used in peliculogen compositions, <i>Studia UBB Chemia</i>, 2018, 63 (1), 63-72 ; DOI: 10.24193/subbchem.2018.1.05</p> <p>3. Boran, S., Nițu, S., Soybean bioester obtained in a bubble column esterification reactor – A rheological study, <i>Materiale Plastice</i>, 2017, 64 (4), 386-389 ; DOI: 10.37358/mp.17.2.4856</p> <p>4. Vancea, C., Gheju, M., Moșoarcă, G., Inertization in vitreous matrix of exhausted reactive mixtures resulted from the removal of Cr(VI) with Fe⁰ in continuous-flow system, <i>Revista Română de Materiale</i>, 2017, 47 (4), 435-44</p> <p>5. Ardelean, R., Davidescu, C.M., Dragan, E.S., Popa, A., Marcu, C., Adsorption of phenol or phenol derivatives onto styrene-1% (15%) divinylbenzene polymeric adsorbents functionalized with aminopropyl(benzyl)phosphonic groups, <i>Revista Română de Materiale</i>, 2016, 47 (4), 435-441</p> <p>6. Hădărugă, D.I., Hădărugă, N.G., Resiga, D., Pode, V., Dumbravă, D., Lupea, A.X., Obtaining and characterization of sage (<i>Salvia sclarea L.</i>) essential oil / β-cyclodextrin supramolecular system, <i>Revista de Chimie</i>, 2007, 58 (6), 566-573</p> <p>7. Bandur, G., Rusnac, L., Petrean, A., Grandtner, G., Pode, V., Pleșu, N., Abadie, M.J.M., The study of the reactivity of some acrylic and methacrylic monomers with two double bonds, <i>Materiale Plastice</i>, 2006, 43 (4), 330-334</p> <p>8. Hadaruga, N.G., Hadaruga, D.I., Lupea, A.X., Paunescu, V., Tatu, C., Bioactive nanoparticles: 7. Essential oil from Apiaceae and Pinaceae family plants/β-cyclodextrin supramolecular system, <i>Revista de Chimie</i>, 2005, 56 (8), 876-882</p>
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