

Fișă de verificare a îndeplinirii standardelor minimale

Candidat:

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Departamentul de Chimie Aplicată și Ingineria Compușilor Anorganici și a Mediului

Domeniul pentru care se solicit abilitarea: Inginerie Chimică

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE

Comisia Inginerie chimică, inginerie medicală, știința materialelor și nanomateriale
(conform OMECTS 6560 / 20.12.2012, Anexa nr. 8)

Sinteză

Criterii	Standarde minime (cumulative) CNATCDU	Standarde îndeplinite de candidat	Raport îndeplinite/ criterii minime	Observații
Număr total de articole în reviste ISI (NT)	$NT \geq 25$	45	1.80	Îndeplinit
Număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență) (NP)	$NP \geq 12$	23	1.91	Îndeplinit
Factor de impact cumulat * (FIC)**	$FIC \geq 16$	51.1	3.19	Îndeplinit
Număr total de citări (din baza SCOPUS) (NC)	$NC \geq 40$	392	9.80	Îndeplinit

*suma factorilor de impact ale revistelor la momentul susținerii publice a tezei de doctorat sau la momentul înscriserii la concursul pentru ocuparea unei poziții didactice.

** în acest caz în calculul FIC se tine cont de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal și respectiv de factorul de impact împărțit la numarul de autori pentru revistele în care candidatul a publicat un articol în care nu este autor principal.

Conf. dr. ing. Stoia Marcela Elena

Fisa detaliată de verificare a îndeplinirii standardelor minimale : Conf.dr.ing. Stoia Marcela Elena

Nr. crt.	Articol publicat in revista cotata ISI (vezi lista de lucrari)	Nr. autori	FI	Punctaj realizat de candidat			
				NT = 45	NP = 23	FIC=51.13	NC=392
1	Istratie, R; Babuta, R; Popa, A; Pacurariu, C ; Stoia, M, Enhanced Adsorption of p-Nitrophenol from Aqueous Solutions Using a Functionalized Styrene-Divinylbenzene Copolymer, Water air and soil pollution Vol: 228 (8), article no: 276, 2017	5	1.702	1		0.340	0
2	Stoia, M* ; Pacurariu, C; Muntean, EC, Thermal stability of the solvothermal-synthesized MnFe ₂ O ₄ nanopowder , Journal of thermal analysis and calorimetry _ 127 (1): 155-162, 2017	3	1.953	2	Autor principal	1.953	1
3	Stoia, M* ; Muntean, E; Pacurariu, C, Ciprian M, Thermal behavior of MnFe ₂ O ₄ and MnFe ₂ O ₄ /C nanocomposite synthesized by a solvothermal method, Thermochemistry Acta 652, pp: 1-8, 2017	4	2.236	3	Autor principal	2.236	0
4	Vlazan, P.; Stoia, M. ; Poienar, M, Sfarloaga P, Phase transition behaviour and physicochemical properties of KNbO ₃ ceramics, Ceramics International _ Vol. 43(8), pp: 5963-5967,2017	4	2.986	4		0.746	0
5	Stoia, M ; Muntean, C*; Militaru, B, MnFe ₂ O ₄ nanoparticles as new catalyst for oxidative degradation of phenol by peroxydisulfate, Journal of Environmental Sciences Vol: 53, pp: 269-277, 2017	3	2.937	5	Autor principal	2.937	0
6	Stoia, M. ; Barvinschi, P*.; Barbu-Tudoran, L.; Bunoiu, M. Influence of polyols on the formation of nanocrystalline nickel ferrite inside silica matrices, Journal of Crystal Growth, Vol. 457, pp. 294-301, 2017.	4	1.751	6	Autor principal	1.751	0

7	Stoia, M. ; Tămaș, A.*; Rusu, G; Moroșanu J. Synthesis of magnetic iron oxides from ferrous sulfate and substitutes amines, Studia UBB Chemia, Vol: LXI (4), pp: 147 - 162, 2016.	4	0.244	7	Autor principal	0.244	0
8	Stoia, M. *; Istratie, R.; Păcurariu, C. Investigation of magnetite nanoparticles stability in air by thermal analysis and FTIR spectroscopy. Journal of Thermal Analysis and Calorimetry. Vol:125, pp:1185–1198, 2016	3	1.953	8	Autor principal	1.953	2
9	Stoia, M. *; Păcurariu, C.; Istratie, R; Barvinschi, P.;Locovei, C. Thermoanalytical techniques: Excellent tools for the characterization of ferrite/SiO ₂ nanocomposites and their precursors. Journal of Thermal Analysis and Calorimetry. Vol:125, pp: 1249–1263, 2016	5	1.953	9	Autor principal	1.953	1
10	Stoia, M. *; Pacurariu, C; Istratie, R; Niznansky, D. Solvothermal synthesis of magnetic Fe _x O _y /C nanocomposites used as adsorbents for the removal of methylene blue from wastewater. Journal of Thermal Analysis and Calorimetry. Vol.: 121(3), pp: 989-1001, 2015.	4	1.953	10	Autor principal	1.953	4
11	Stoia, M. *; Muntean, C; Militaru, B. Fine MnFe ₂ O ₄ nanoparticles for potential environmental applications. Synthesis and characterization. Journal of Thermal Analysis and Calorimetry. vol.: 121(3), pp: 1003-1010, 2015.	3	1.953	11	Autor principal	1.953	6
12	Stoia, M. ; Muntean, C*. Preparation, characterization and adsorption properties of MFe ₂ O ₄ (M = Ni, Co, Cu) nanopowders. Environmental Engineering and Management Journal, vol.: 14(6),pp: 1247-1259, 2015	2	1.096	12	Autor principal	1.096	1

13	Stoia, M. ; Barvinschi, P; Barvinschi, F*. Structural and morphologic characterization of zirconia-silica nanocomposites prepared by a modified sol-gel method, <i>Journal of Crystal Growth</i> , vol.: 401, pp 462-468, 2014	3	1.751	13	Autor principal	1.751	2
14	Stoia, M. ; Barvinschi, P*; Barbu-Tudoran, L; Negrea, A; Barvinschi, F. Influence of thermal treatment on the formation of zirconia nanostructured powder by thermal decomposition of different precursors. <i>Journal of Crystal Growth</i> , vol.: 381, pp: 93-99, 2013	5	1.751	14	Autor principal	1.751	5
15	Barbu, M.; Stoia, M.* ; Barvinschi, P; Barbu-Tudoran, L; Stefanescu, M. Study on the formation of $\text{MCr}_2\text{O}_4/\text{SiO}_2$ nanocomposites from hybrid gels PVA-TEOS-metal nitrates. <i>Thermochimica Acta</i> vol.: 564, pp:43-50, 2013	5	2.236	15	Autor principal	2.236	5
16	Stoia, M* ; Tudoran, L Barbu; Barvinschi, P. Nanosized zinc and magnesium ferrites obtained from PVA-metal nitrates' solutions. <i>Journal of Thermal Analysis and Calorimetry</i> , vol.: 113(1), pp: 11-19, 2013	3	1.953	16	Autor principal	1.953	9
17	Muntean, C; Stoia, M* ; Barvinschi, P. Synthesis of nanocrystalline ZnFe_2O_4 and its use for the removal of Congo Red from aqueous solutions. <i>Environmental Engineering and Management Journal</i> , vol.: 12(5), pp.: 959-967, 2013.	3	1.096	17	Autor principal	1.096	3
18	Stoia, M ; Barvinschi, P*; Barbu-Tudoran, L. Thermal decomposition of metal nitrates PVA-TEOS gels for obtaining M(II) ferrite/silica nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , vol.: 113(1), pp: 21-30, 2013	3	1.953	18	Autor principal	1.953	7

19	Gavris, G; Stoia, M ; Petrehele, A I G; Fodor, A. Sodium Hypophosphite as Reduction Reagent for Cooper Ions Recovery from Aqueous Solutions. Revista de Chimie, vol.: 64(5), pp: 519-523, 2013	4	1.232	19		0.308	0
20	Barvinschi, P; Barbu, M*; Stoia, M ; Stefanescu, M. Evaluation of cation influence on the formation of $M^{II}Cr_2O_4$ during the thermal decomposition of mixed carboxylate type precursors. Journal of Thermal Analysis and Calorimetry, vol: 112(1), pp.: 359-366, 2013	4	1.953	20		0.488	7
21	Vlazan, P; Stefanescu, M*; Barvinschi, P; Stoia, M . Study on the formation of $CoxFe_{3-x}O_4$ system using two low temperature synthesis methods. Materials Research Bulletin, vol.: 47(12), pp: 4119-4125, 2012	4	2.446	21		0.611	6
22	Stoia, M* ; Barbu, M; Stefanescu, M; Barvinschi, P; Barbu-Tudoran, L. Synthesis of nanosized zinc and magnesium chromites starting from PVA-metal nitrate solutions. Journal of Thermal Analysis and Calorimetry, vol.: 110(1), pp: 85-92, 2012	5	1.953	22	Autor principal	1.953	6
23	Stoia, M* ; Barvinschi, P; Tudoran, L Barbu; Barbu, M; Stefanescu, M. Synthesis of nanocrystalline nickel ferrite by thermal decomposition of organic precursors, Journal of Thermal Analysis and Calorimetry, vol.: 108(3), pp: 1033-1039, 2012	5	1.953	23	Autor principal	1.953	15
24	Stoia, M* ; Stefanescu, M; Barbu, M; Barvinschi, P; Tudoran, L Barbu. Studies regarding the formation from metal nitrates and diol of (NiM_2O_4) spinels, inside a silica matrix. Journal of Thermal Analysis and Calorimetry, vol.: 108(3), pp: 1041-1049, 2012	5	1.953	24	Autor principal	1.953	6

25	Barbu, M*; Stefanescu, M; Stoia, M ; Vlase, G; Barvinschi, P. New synthesis method for M(II) chromites/silica nanocomposites by thermal decomposition of some precursors formed inside the silica gels. <i>Journal of Thermal Analysis and Calorimetry</i> , vol.: 108(3), pp: 1059-1066, 2012	5	1.953	25		0.390	8
26	Stoia, M* ; Stefanescu, O; Vlase, G; Tudoran, L Barbu; Barbu,M; Stefănescu, M. Silica matrices for embedding of magnetic nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , vol.: 62(1), pp:31-40, 2012	6	1.575	26	Autor principal	1.575	9
27	Stefanescu, O*; Stoia, M ; Barbu, M; Stefănescu, M. Organic-inorganic Hybrid Gels of Diol-TEOS Type. Synthesis and Study on the Chemical Interaction. <i>Acta Chimica Slovenica</i> , vol.: 59(2), pp: 281-288, 2012	4	0.983	27		0.245	2
28	Stefanescu, M*; Barbu, M; Vlase, T; Barvinschi, P; Tudoran, L Barbu; Stoia M . Novel low temperature synthesis method for nanocrystalline zinc and magnesium chromites. <i>Thermochimica Acta</i> , vol.: 526(1-2), pp: 130-136, 2011	6	2.236	28		0.372	28
29	Stoia, M* ; Caizer, C; Stefanescu, M; Barvinschi, P; Tudoran, L Barbu. Characterisation of nickel-zinc ferrite/silica nanocomposites with low ferrite concentration obtained by an improved modified sol-gel method, <i>Journal of Sol-Gel Science and Technology</i> , vol.: 58(1), pp: 126-134, 2011	5	1.575	29	Autor principal	1.575	6
30	Stoia, M* ; Stefanescu, M; Dippong, T; Stefanescu, O; Barvinschi, P. Low temperature synthesis of $\text{Co}_2\text{SiO}_4/\text{SiO}_2$ nanocomposite using a modified sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , vol.: 54(1), pp: 49-56, 2010	5	1.575	30	Autor principal	1.575	22

31	Stefanescu, M*.; Stoia, M ; Stefanescu, O.; Barvinschi, P. Obtaining of Ni _{0.65} Zn _{0.35} Fe ₂ O ₄ nanoparticles at low temperature starting from metallic nitrates and polyols. Journal of Thermal Analysis and Calorimetry, vol:99(2), pp: 459-464, 2010	4	1.953	31		0.488	16
32	M. Ștefanescu, M. Stoia* , O. Ștefanescu, C. Davidescu, G. Vlase; Sfirloaga, P. Synthesis and characterisation of poly(vinyl alcohol)/ethylene glycol /silica hybrids. Thermal analysis and FT-IR study, Revue Roumaine de Chimie, 55 (2010) 17-23	6	0.246	32	Autor principal	0.246	15
33	Stefanescu, M*.; Stoia, M ; Caizer, C.; Dippong, T.; Barvinschi, P. Preparation of Co _x Fe _{3-x} O ₄ nanoparticles by thermal decomposition of some organo-metallic precursors. Journal of Thermal Analysis and Calorimetry, vol: 97(1), pp: 245-250, 2009	5	1.953	33		0.390	10
34	Stefanescu, M*.; Stoia, M ; Caizer, C.; Stefanescu, O. Preparation of x(Ni _{0.65} Zn _{0.35} Fe ₂ O ₄)/(100-x)SiO ₂ nanocomposite powders by a modified sol-gel method. Materials Chemistry Physics, vol.: 113(1), pp: 342-348, 2009	4	2.084	34		0.521	17
35	Stefanescu, M.*; Stoia, M ; Dippong, T.; Stefanescu, O.; Barvinschi, P. Preparation of Co _x Fe _{3-x} O ₄ Oxydic System Starting from Metal Nitrates and Propanediol. Acta Chimica Slovenica, vol: 56(2), pp: 379-385, 2009	5	0.983	35		0.196	15
36	Stefanescu, O*; Stoia, M ; Stefanescu, M; Vlase, T, Study on the influence of teos-diol molar ratio on their chemical interaction during the gelation process, Journal of thermal analysis and calorimetry, 97, 2009, 251-256	4	1.953	36		0.488	4

37	O Ștefănescu, C Davidescu, M Ștefănescu*, M. Stoia , Preparation of $\text{Fe}_x\text{O}_y/\text{SiO}_2$ nanocomposites by thermal decomposition of some carboxylate precursors formed inside the silica matrix, Journal Thermal Analysis and Calorimetry, 97 (2009) 203-208	4	1.953	37		0.488	8
38	Gavris, G; Stanasel, O; Pode, R; Stoia, M. ; Chitac, V, Study upon the recuperative purging of nickel and cobalt ions from residual solutions by means of chemical precipitation, Revista de chimie, 59(1), 2008,61-64	5	1.232	38		0.246	1
39	Stefanescu, M.*; Dippong, T.; Stoia, M. ; Stefanescu, O. Study on the obtaining of cobalt oxides by thermal decomposition of some complex combinations, undispersed and dispersed in SiO_2 matrix, Journal of Thermal Analysis and Calorimetry, vol: 94(2), pp: 389-393, 2008	4	1.953	39		0.488	9
40	Ştefanescu, M.*, Ștefanescu, O., Stoia, M. , Lazau, C. Thermal decomposition of some metal-organic precursors: Fe_2O_3 nanoparticles, Journal of Thermal Analysis and Calorimetry 88 (1), pp. 27-32, 2007	4	1.953	40		0.488	35
41	M. Stefanescu*, M. Stoia , O. Stefanescu, A. Popa, M. Simon, C. Ionescu, The interaction between TEOS and some polyol. Thermal analysis and FT-IR, Journal of Thermal Analysis and Calorimetry 88 (2007) 19.	6	1.953	41		0.325	20
42	Stefanescu, M.*, Stoia, M. , Stefanescu, O. Thermal and FT-IR study of the hybrid ethylene-glycol-silica matrix, Journal of Sol-Gel Science and Technology 41 (1), pp. 71-78, 2007	3	1.575	42		0.525	39

43	Stoia, M.*; Caizer, C.; Stefanescu, M.; Barvinschi, P. ; Julean, I. Obtaining of $\text{Ni}_{0.65}\text{Zn}_{0.35}\text{Fe}_2\text{O}_4/\text{SiO}_2$ nanocomposites by thermal decomposition of complex compounds embedded in silica matrix. Journal of Thermal Analysis and Calorimetry, vol: 88(1), pp: 193-200, 2007	5	1.953	43	Autor principal	1.953	10
44	Stefanescu, M; Caizer, C*; Stoia, M ; Stefanescu, O. Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, with ultranarrow distribution, isolated in a silica matrix, prepared by a novel synthesis method in the liquid phase. Acta Materialia, vol: 54(5), pp: 1249-1256, 2006	4	5.301	44		1.325	24
45	M. Stefanescu*, C. Caizer, M. Stoia , O. Stefanescu, Ni,Zn/SiO ₂ ferrite nanocomposites prepared by an improved sol-gel method and their characterization, J Optoelect. Adv. Mat, vol 7, no. 2, 2005, p. 607-614	4	0.449	45		0.112	8

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	Total	0	0	2	5	9	17	25	34	40	55	51	55	58	40	391	1	392
<input type="checkbox"/> 1 Enhanced Adsorption of p-Nitrophenol from Aqueous Solutions ...	2017															0	0	
<input type="checkbox"/> 2 Thermal behavior of MnFe₂O₄ and MnFe₂O₄ nanoparticles as new catalyst ...	2017															0	0	
<input type="checkbox"/> 3 Phase transition behaviour and physicochemical properties of...	2017															0	0	
<input type="checkbox"/> 4 MnFe₂O₄ nanoparticles as new catalyst ...	2017															0	0	

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Documents	Citations	<2005	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Subtotal >2017	Total				
	Total	0	0	2	5	9	17	25	34	40	55	51	55	58	40	391	1	392			
<input type="checkbox"/> 1 Enhanced Adsorption of p-Nitrophenol from Aqueous Solutions ...	2017															0	0				
<input type="checkbox"/> 2 Thermal behavior of MnFe₂_O₄ and MnFe₂_O₄ nanoparticles as new catalyst ...	2017															0	0				
<input type="checkbox"/> 3 Phase transition behaviour and physicochemical properties of...	2017															0	0				
<input type="checkbox"/> 4 MnFe₂_O₄ nanoparticles as new catalyst ...	2017															0	0				
<input type="checkbox"/> 5 Influence of polyols on the formation of nanocrystalline nic...	2017															0	0				
<input type="checkbox"/> 6 Thermal stability of the solvothermal-synthesized MnFe₂...	2017															1	1	1			
<input type="checkbox"/> 7 Thermoanalytical techniques: Excellent tools for the charact...	2016															1	1	1			
<input type="checkbox"/> 8 Investigation of magnetite nanoparticles stability in air by...	2016															1	1	2			
<input type="checkbox"/> 9 Solvothermal synthesis of magnetic Fe_x_y...	2015															2	2	4	4		
<input type="checkbox"/> 10 Fine MnFe₂_O₄ n...	2015															2	4	6	6		
<input type="checkbox"/> 11 Preparation, characterization and adsorption properties of M...	2015															1	1	1			
<input type="checkbox"/> 12 Structural and morphologic characterization of zirconia-sili...	2014															1	1	2	2		
<input type="checkbox"/> 13 Influence of thermal treatment on the formation of zirconia ...	2013															2	1	1	5	5	
<input type="checkbox"/> 14 Nanosized zinc and magnesium ferrites obtained from PVA-meta...	2013															2	3	4	9	9	
<input type="checkbox"/> 15 Thermal decomposition of metal nitrates: PVA-TEOS gels for o...	2013															1	3	2	1	7	7
<input type="checkbox"/> 16 Study on the formation of MCr₂_O₄/SiO_i	2013															1	1	3	5	5	
<input type="checkbox"/> 17 Sodium hypophosphate as reduction reagent for cooper ions re...	2013															0	0	0	0		
<input type="checkbox"/> 18 Synthesis of nanocrystalline ZnFe ₂ O ₄ and its use for the rem...	2013															1	2	3	3	3	
<input type="checkbox"/> 19 Evaluation of cation influence on the formation of M(II)Cr<...>	2013															1	2	1	3	7	7
<input type="checkbox"/> 20 Study on the formation of Co_x<sub>Fe_{3-x}<sub>O ...	2012															5	1	6	6		
<input type="checkbox"/> 21 Synthesis of nanosized zinc and magnesium chromites starting...	2012															2	2	2	6	6	
<input type="checkbox"/> 22 Organic-inorganic hybrid gels of diol-TEOS type. Synthesis a...	2012															1	1	2	2		

□ 22	Organic-inorganic hybrid gels of diol-TEOS type. Synthesis a...	2012			1	1		2	2		
□ 23	Studies regarding the formation from metal nitrates and diol...	2012			4	1	1	6	6		
□ 24	New synthesis method for M(II) chromites/silica nanocomposit...	2012			1	2	1	3	1	8	8
□ 25	Synthesis of nanocrystalline nickel ferrite by thermal decom...	2012			3	4	3	3	1	15	15
□ 26	Silica matrices for embedding of magnetic nanoparticles	2012			3	1	3	1	1	9	9
□ 27	Novel low temperature synthesis method for nanocrystalline z...	2011			5	7	3	9	4	28	28
□ 28	Characterisation of nickel-zinc ferrite/silica nanocomposite...	2011			3	1	1	1	1	6	6
□ 29	Low temperature synthesis of Co _{2.5} SiO ₄ /SiO ₂ nanocomposite usin...	2010			4	1	4	3	3	4	22
□ 30	Obtaining of Ni _{0.65} Zn _{0.35} Fe ₂ O ₄ nanoparticles at low temperat...	2010			2	5	4	1	1	3	16
□ 31	Synthesis and characterization of poly(vinyl alcohol)/ethyle...	2010			1	2	4	4	2	1	15
□ 32	Preparation of Co_xFe_{3-x}O₄ o...	2009			2	2	4	1	4	2	15
□ 33	Study on the influence of teos-diol molar ratio on their che...	2009			1	2		1		4	4
□ 34	Preparation of Co_xFe_{3-x}O₄ n...	2009			1	2	2	1	2	2	10
□ 35	Preparation of Fe _x O _y /SiO ₂ nanocomposites by thermal decompos...	2009			1	1	1	2	1	2	8
□ 36	Preparation of x(Ni _{0.65} Zn _{0.35} Fe ₂ O ₄)/(100 - x)SiO ₂ nanocompos...	2009			1	2	2	4	3	1	2
□ 37	Study on the obtaining of cobalt oxides by thermal decompositi...	2008			1	1	1	1	1	2	9
□ 38	Study upon the recuperative purging of nickel and cobalt ion...	2008			1						1
□ 39	Thermal decomposition of some metal-organic precursors: Fe 2...	2007			4	5	6	7	3	3	35
□ 40	Obtaining of Ni _{0.65} Zn _{0.35} Fe ₂ O ₄ /SiO ₂ nanocomposites by therm...	2007			3	1	3	1	1	1	10
□ 41	The interaction between TEOS and some polyols: Thermal analy...	2007			3	5	2	2	1	3	20
□ 42	Thermal and FT-IR study of the hybrid ethylene-glycol-silica...	2007			4	8	5	5	3	3	39
□ 43	Ultrafine, perfectly spherical Ni-Zn ferrite nanoparticles, ...	2006	2	3	2	2	1	1	2	1	24
□ 44	Ni,Zn/SiO ₂ ferrite nanocomposites prepared by an ...	2005		2		1	2	1	1	1	8