



ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT
DIRECTOR SCOSAAR
M. Zaharescu
Acad. Maria ZAHARESCU

ÎNDEPLINIREA STANDARDELOR MINIMALE

DA | NU

FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE
conform CNATDCU

Candidat: Dr. Aflori Magdalena

FIȘA DE VERIFICARE a îndeplinirii standardelor minimale

Criterii generale

Categorie Habilitare	Nmax (*)	FIC(**)	FIC _D (***)	FIC _{AP} (****)	FIC _{AC} (*****)	H index
Cerințe	50	100	70	50	25	13
Realizat	50	169,79	119,8	81,7	74,7	18

(*) Nmax - primele maxim N lucrări, organizate în ordinea descrescătoare a factorilor de impact a revistelor în care au fost publicate;

(**) FIC - factorul de impact cumulat minimal al revistelor în care s-au publicat lucrările în cauză;

(***) FIC_D - factorul de impact cumulat minimal din publicații în domeniile de cercetare declarate;

(****) FIC_{AP} - factorul de impact cumulat minimal din publicații în calitate de autor principal (prim-autor și autor de corespondență);

(*****) FIC_{AC} - factorul de impact cumulat minimal din publicații în calitate de autor de corespondență.



**Lista cu 50 de lucrări (Nmax) indexate ISI WEB of Science
CSII Dr. Magdalena Aflori**

Nr.	Lista lucrări	FIC	FIC _D	FIC _{AP}	FIC _{AC}
1	Simionescu, B.; Aflori, M. ; Olaru, M. Protective coatings based on silsesquioxane nanocomposite films for building limestones <i>2009 Construction and Building Materials</i> , 2 (11), 3426-3430	7,4	7,4	7,4	7,4
2	Bordianu, I.E.; David, G.; Simionescu, B.; Aflori, M. ; Ursu, C.; Coroaba, A.; Hitruc, G.; Cotofana, C.; Olaru M. Functional silsesquioxane-based hierarchical assemblies for antibacterial/antifungal coatings <i>2014 Journal of Materials Chemistry B</i> , 3, 723-727	7	7		
3	Gradinaru, L.M.; Barbalata-Mandru, M.; Enache, A.A.; Rimbu, C.M.; Badea, G.I.; Aflori, M. Chitosan membranes containing plant extracts: preparation, characterization and antimicrobial properties <i>2023 International Journal of Molecular Sciences</i> , 24(10), 8673	5,6	5,6	5,6	5,6
4	Aflori, M. Smart nanomaterials for biomedical applications-A Review <i>2021 Nanomaterials</i> , 11(2), 396	5,3	5,3	5,3	5,3
5	Serbezeanu, D.; Bargan, A.; Homocianu, M.; Aflori, M. ; Rimbu, C.M.; Enache, A.A.; Vlad-Bubulac, T. Electrospun polyvinyl alcohol loaded with phytotherapeutic agents for wound healing applications <i>2021 Nanomaterials</i> , 11(12), 3336	5,3	5,3		
6	Gradinaru, L.M.; Barbalata-Mandru, M.; Drobeta, M.; Aflori, M. ; Spiridon, M.; Pircalabioru, G.G.; Bleotu, C.; Butnaru, M.; Vlad, S. Preparation and evaluation of nanofibrous hydroxypropyl cellulose and beta-cyclodextrin polyurethane composite mats <i>2020 Nanomaterials</i> , 10(4), 754	5,3	5,3		
7	Aflori, M. ; Butnaru, M.; Tihauan, B.-M.; Doroftei, F. Eco-friendly method for tailoring biocompatible and antimicrobial surfaces of poly-L-lactic acid <i>2019 Nanomaterials</i> , 9(3), 428	5,3	5,3	5,3	5,3
8	Ciobanu, R.C.; Schreiner, C.; Aradoaei, M.; Hitruc, G.E.; Rusu, B.G.; Aflori, M. Characteristics of composite materials of the type: TPU/PP/BaTiO ₃ powder for 3D printing applications <i>2023 Polymers</i> , 15(1), 73	5	5	5	5
9	Ciobanu, R.C.; Aradoaei, M.; Caramitu, A.R.; Ion, I.; Schreiner, C.M.; Tsakiris, V.; Marinescu, V.; Hitruc, E.G.; Aflori, M. Special packaging materials from recycled PET and metallic nano-powders <i>2023 Polymers</i> , 15, 3161	5	5	5	5
10	Aradoaei, M.; Ciobanu, R.C.; Schreiner, C.; Ursan, A.G.; Hitruc, G.E.; Aflori M. Thermoplastic electromagnetic shielding materials from integral recycling of waste from electronic equipment <i>2023 Polymers</i> , 15(19), 3859	5	5	5	5
11	Nechifor, C.D.; Aflori, M. ; Dorohoi, D.O.	5	5	5	5



	Anisotropy of thin foils obtained from microwave-irradiated poly(vinyl alcohol) aqueous solutions <i>2023 Polymers</i> , 11(6), 1072				
12	Drobota, M.; Ursache, S.; Aflori, M. Surface functionalities of polymers for biomaterial applications <i>2022 Polymers</i> , 14(12), 2307	5	5	5	5
13	Gradinaru, L.M.; Mandru, M.B.; Drobota, M.; Aflori, M. ; Butnaru, M.; Spiridon, M.; Doroftei, F.; Aradoaei, M.; Ciobanu, R.C.; Vlad, S. Composite materials based on iron oxide nanoparticles and polyurethane for improving the quality of MRI <i>2023 Polymers</i> , 13(24), 4316	5	5		
14	Gradinaru, L.M.; Bercea, M.; Vlad, S.; Mandru, M.B.; Drobota, M.; Aflori, M. ; Ciobanu, R.C. Preparation and characterization of electrospun magnetic poly(ether urethane) nanocomposite mats: Relationships between the viscosity of the polymer solutions and the electrospinning ability <i>2022 Polymer</i> , 256, 125186	4,6	4,6		
15	Vlad-Bubulac, T.; Hamciuc, C.; Rîmbu, C.M.; Aflori, M. ; Butnaru, M.; Enache, A.A.; Serbezeanu, D. Fabrication of poly(vinyl alcohol)/chitosan composite films strengthened with titanium dioxide and polyphosphonate additives for packaging applications <i>2022 Gels</i> , 8(8), 474	4,6	4,6		
16	Simionescu, B.; Bordianu, I.E.; Aflori, M. ; Doroftei, F.; Mares, M.; Patras, X.; Nicolescu, A.; Olaru, M. Hierarchically structured polymer blends based on silsesquioxane hybrid nanocomposites with quaternary ammonium units for antimicrobial coatings <i>2012 Materials Chemistry and Physics</i> , 134(1), 190-199	4,6	4,6		
17	Filip, D.; Asandulesa, M.; Macocinschi, D.; Aflori, M. ; Vlad, S. Molecular dynamics, conductivity and morphology of sodium deoxycholate-based poly(ester ether)urethane ionomer biomaterials <i>2016 Journal of Materials Science</i> , 51(18), 8516-8528	4,5			
18	Diaconu, I.; Melniciuc-Puica, N.; Dorohoi, D.; Aflori, M. Birefringence dispersion of N-(4-methoxybenzylidene)-4-butylaniline (MBBA) determined from channeled spectra <i>2007 Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i> , 68, 536	4,4			
19	Mihai, M.; Damaceanu, M.D.; Aflori, M. ; Schwarz, S. Calcium carbonate microparticles growth templated by an oxadiazole-functionalized maleic anhydride-co-N-vinylpyrrolidone copolymer, with enhanced pH stability and variable loading capabilities <i>2012 Crystal Growth and Design</i> , 12(9), 4479-4486	3,8			
20	Mihai, M.; Socoliuc, V.; Doroftei, F.; Ursu, E.L.; Aflori, M. ; Vekas, L.; Simionescu, B.C. Calcium carbonate-magnetite-chondroitin sulfate composite microparticles with enhanced pH stability and superparamagnetic properties <i>2013 Crystal Growth and Design</i> , 13(8), 3535-3545	3,8			

21	Dimitriu, D.G.; Aflori, M. ; Ivan, L.M.; Radu, V.; Poll, E.; Agop, M. Experimental and theoretical investigations of plasma multiple double layers and their evolution to chaos <i>2013 Plasma Sources Science and Technology</i> , 3, 035007	3,8			
22	Aflori, M. ; Simionescu, B.; Bordianu, I.E.; Sacarescu, L.; Varganici, C.D.; Doroftei, F.; Nicolescu, A.; Olaru, M. Silsesquioxane-based hybrid nanocomposites with methacrylate units containing titania and/or silver nanoparticles as antibacterial/antifungal coatings for monumental stones <i>2013 Materials Science and Engineering B</i> , 178, 1339-1346	3,6	3,6	3,6	
23	Aflori, M. ; Drobota, M.; Dimitriu, D.Gh.; Stoica, I.; Simionescu, B.; Harabagiu, V. Collagen immobilization on polyethylene terephthalate surface after helium plasma treatment <i>2013 Materials Science and Engineering B</i> , 178, 1303-1310	3,6	3,6	3,6	3,6
24	Olaru, M.; Aflori, M. ; Simionescu, B.; Doroftei, F.; Stratulat, L. Effect of SO ₂ deposition on porous dolomitic limestones <i>2010 Materials</i> , 3(1), 216-231	3,4			
25	Drobota, M.; Vlad, S.; Gradinaru, L.M.; Bargan, A.; Radu, I.; Butnaru, M.; Rîmbu, C.M.; Ciobanu, R.C.; Aflori, M. Composite materials based on gelatin and iron oxide nanoparticles for MRI accuracy <i>2022 Materials</i> , 15(10), 3479	3,4	3,4	3,4	3,4
26	Serbezeanu, D.; Vlad-Bubulac, T.; Rusu, D.; Pircalabioru, G.G.; Samoila, I.; Dinescu, S.; Aflori, M. Functional polyimide-based electrospun fibers for biomedical application <i>2019 Materials</i> , 12(19), 3201	3,4	3,4	3,4	3,4
27	Barbalata-Mandru, M.; Serbezeanu, D.; Butnaru, M.; Rimbu, C.M.; Enache, A.A.; Aflori, M. Poly(vinyl alcohol)/plant extracts films: preparation, surface characterization and antibacterial studies against gram positive and gram negative bacteria <i>Materials</i> 2022, 15(7), 2493	3,4	3,4	3,4	3,4
28	Constantin, C.P.; Aflori, M. ; Damian, R.F.; Rusu, R.D. Biocompatibility of polyimides: A mini-review <i>2019 Materials</i> , 12(19), 3166	3,4			
29	Samoila, I.; Dinescu, S.; Pircalabioru, G.G.; Marutescu, L.; Fundueanu, G.; Aflori, M. ; Constantin, M. Pullulan/poly(vinyl alcohol) composite hydrogels for adipose tissue engineering <i>2019 Materials</i> , 12(19), 3220	3,4			
30	Mihai, M.; Mountrichas, G.; Pispas, S.; Stoica, I.; Aflori, M. ; Auf der Landwehr, M.; Neda, I.; Schwarz, S. Calcium carbonate microparticle templates using a PHOS-b-PMAA double hydrophilic copolymer <i>2013 Journal of Applied Crystallography</i> , 46, 1455-1466	3,30			
31	Drobota, M.; Butnaru, M.; Vornicu, N.; Plopa, O.; Aflori, M. Facile method for obtaining gold-coated polyester surfaces with antimicrobial properties <i>2020 Advances in Polymer Technology</i> , 4504062	3,1	3,1	3,1	3,1
32	Serbezeanu, D.; Vlad-Bubulac, T.; Hamciuc, C.; Aflori, M.	2,8			



	Synthesis and properties of novel phosphorus-containing thermotropic liquid crystalline copoly(ester imide)s <i>2010 Journal of Polymer Science A: Polymer Chemistry</i> , 48, 5391-5403				
33	Aflori, M. ; Drobeta, M. Antimicrobial effect on PET films obtained by plasma and silver nitrate/collagen treatments <i>2017 Romanian Reports in Physics</i> , 69, 603	2,7	2,7	2,7	2,7
34	Serbezeanu, D.; Vlad-Bubulac, T.; Hamciuc, C; Aflori, M. Structure and properties of phosphorous-containing thermotropic liquid-crystalline aliphatic–aromatic copolyesters <i>2010 Macromolecular Chemistry and Physics</i> , 211, 1460-1471	2,5			
35	Suteu, D.; Bilba, D.; Aflori, M. ; Doroftei, F.; Lisa, G.; Badeanu, M.; Malutan, T. The seashell wastes as biosorbent for reactive dye removal from textile effluents <i>2011 CLEAN – Soil, Air, Water</i> , 40(2), 198-205	2,4			
36	Aflori, M. ; Miron, C.; Dobromir, M.; Drobeta, M. Bactericidal effect on Foley catheters obtained by plasma and silver nitrate treatments <i>2015 High Performance Polymers</i> , 27, 655-660	2,1	2.1	2.1	2.1
37	Dimitriu, D.G.; Aflori, M. ; Ivan, L.M.; Ionita, C.; Schrittwieser, R.W. Common physical mechanism for concentric and non-concentric multiple double layers in plasma <i>2007 Plasma Physics and Controlled Fusion</i> , 49(3), 237-248	2,2			
38	Pelin, I.M.; Popescu, I.; Suflet, D.M.; Aflori, M. ; Bulacovschi, V. Influence of maleic acid copolymers on calcium orthophosphates crystallization at low temperature <i>2013 Journal of Crystal Growth</i> , 377, 127-135	1,8			
39	Mihai, M.; Bucătariu, F.; Aflori, M.; Schwarz, S. Synthesis and characterization of new CaCO ₃ /poly(2-acrylamido-2-methylpropanesulfonic acid–co-acrylic acid) polymorphs, as templates for core/shell particles <i>2012 Journal of Crystal Growth</i> , 351(1), 23-31	1,8			
40	Macocinschi, D.; Filip, D.; Paslaru, E.; Munteanu, B.S.; Dumitriu, R.P.; Pricope, G.M.; Aflori, M. ; Dobromir, M.; Nica, V.; Vasile, C. Polyurethane–extracellular matrix/silver bionanocomposites for urinary catheters <i>2015 Journal of Bioactive and Compatible Polymers</i> , 30(1), 99-113	1,7	1,7		
41	Aflori, M. ; Serbezeanu, D.; Carja, I.D; Fortunato, G. Gold nanoparticles incorporated into electrospun polyimide fibers <i>2015 Chemistry Letters</i> , 44(10), 1440-1442	1,6	1,6	1,6	
42	Aflori, M. Chitosan-based silver nanoparticles incorporated at the surface of plasma-treated PHB film <i>2017 Chemistry Letters</i> , 46(1), 65-67	1,6	1,6	1,6	1,6
43	Simionescu, B.; Aflori, M. ; Oлару, M. Mineral composition and stone conservation of cultural	1,3	1,3	1,3	1,3



	heritage building materials studied by PXRD <i>2009 Z. Kristallogr. Suppl - Eleventh European Powder Diffraction Conference</i> , 30, 471-476				
44	Dimitriu, D.G.; Aflori, M. ; Ivan, L.M.; Agop, M. Experimental and modeling results on multiple double layers in low-temperature discharge plasma <i>2011 IEEE Transactions on Plasma Science</i> , 39(11), 2316-2317	1,5			
45	Cojocariu, A.; Profire, L.; Aflori, M. ; Vasile, C. In vitro drug release from chitosan/Cloisite 15A hydrogels <i>2012 Applied Clay Science</i> , 57, 1-9	1,19			
46	Aflori, M. ; Drobota, M. Combined methods for the improving of the PET surfaces hydrophilicity <i>2015 Digest Journal of Nanomaterials and Biostructures</i> , 10(2), 587-593	0,9	0,9	0,9	
47	Drobota, M.; Aflori, M. ; Barboiu, V. Protein immobilization on poly(ethylene terephthalate) films modified by plasma and chemical treatments <i>2010 Digest Journal of Nanomaterials and Biostructures</i> , 5(1), 35-42	0,9	0,9	0,9	
48	Aflori, M. Polylactic acid containing silver particles <i>2015 Revue Roumaine de Chimie</i> , 60(7-8), 817-821	0,5	0,5	0,5	0,5
49	Aflori, M. Embedding silver nanoparticles at PHB surfaces by means of combined plasma and chemical treatments <i>2016 Revue Roumaine de Chimie</i> , 61(4-5), 407-411	0,5	0,5	0,5	0,5
50	Drobota, M.; Aflori, M. Insights of interaction between collagen-silver colloidal solutions with PET functionalized surface <i>2016 Revue Roumaine de Chimie</i> , 61(8-9), 699-703	0,5	0,5	0,5	0,5
		169,79	119,8	81,7	74,7

14.11.2023

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