



ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT
DIRECTOR SCOSAAR

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.; Drobota, 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	Drobotă, 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.; Drobotă, 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.; Drobotă, 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-vinyl- pyrrolidone 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.; Rîmbu, 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. ; Drobota, 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.; Drobota, 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

Dr. Magdalena Aflori,