ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT
DIRECTOR SCOSAAR
Acad. Maria ZAHARESCU

ÎNDEPLINIREA STANDARDELOR MINIMALE [X] DA | [] | NU

FIŞA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE
conform CNATDCU

Candidat: CS II Dr. ***Barzic Andreea Irina***

FIŞA DE VERIFICARE
a îndeplinirii standardelor minimale

Categorie Habilitare	**Nmax (*)**	**FIC (**)**	**FIC_D (***)**	**FIC_{AP} (****)**	**FIC_{AC} (*****)**	**h index**
Condiţii minimale	50	100	70	50	25	13
Punctaj candidat	50	198,5	175,6	108,1	141,1	14

(*) 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 publicaţii în domeniile de cercetare declarate;

(****) FIC_{AP} - factorul de impact cumulat minimal din publicaţii în calitate de autor principal (prim-autor şi autor de corespondenţă);

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

Data: 15.11.2023

Semnătura:

Candidat: ***Andreea Irina Cosutchi (căsatorită Barzic)***

FIŞA DE VERIFICARE

Lista a 50 (N_{max}) articole publicate în reviste de specialitate (indexate Web of Science) după acordarea titlului de doctor (2010)

Nr. Crt.	Lucrare	FI 2022	FI_D	FI_{AP}	FI_{AC}
1	**A.I. Barzic**, R.M. Albu, I. Stoica, C. Hulubei, New shielding covers based on transparent polyimide/ferrous sulfide composites that reduce optical losses in solar cells, Compos. Sci.Technol., 218, 109140 (2022)	9,1	9,1	9,1	9,1
2	**A.I. Barzic**, I. Stoica, M. Asandulesa, R.M. Albu, Novel polymer/bio-filler composites as alternative eco-friendly materialsfor energy storage: from solution behavior to solid state analysis, Mater. Today Chem., doi: 10.1016/j.mtchem.2023.101807 (2023)	7,3	7,3	7,3	-
3	C. Hulubei, R.M. Albu, G. Lisa, A. Nicolescu, E. Hamciuc, C. Hamciuc, **A.I. Barzic**, Antagonistic effects in structural design of sulfur-based polyimides as shielding layers for solar cells, Sol. Energy Mater. Sol. Cells, 193, 219 (2019)	6,9	6,9	-	6,9
4	I. Stoica, **A.I. Barzic**, C. Hulubei, The impact of rubbing fabric type on surface roughness and tribological properties of some semi-alicyclic polyimides evaluated from atomic force measurements, Appl. Surf. Sci., 268, 442 (2013)	6,7	6,7	-	6,7
5	I. Stoica, **A.I. Barzic**, C. Hulubei, Fabrication of nanochannels on polyimide films using dynamic plowing lithography, Appl. Surf. Sci., 426, 307 (2017)	6,7	-	-	6,7
6	**A.I. Barzic**, R.M. Albu, I. Stoica, Surface alteration implications on potential use of semi-alicyclic polyimide as biomedical materials, Appl. Surf. Sci., 540, 148377 (2021)	6,7	6,7	6,7	6,7
7	**A.I. Barzic**, M. Soroceanu, R. Rotaru, F. Doroftei, M. Asandulesa, C. Tugui, I.A. Dascalu, V. Harabagiu, Cellulose derivative/barium titanate composites with high refractive index, conductivity and energy density, Cellulose, 29, 863 (2022)	5,7	5,7	5,7	-
8	M. Asandulesa, C. Hamciuc, A. Pui, C. Virlan, G. Lisa, **A.I. Barzic**, B. Oprisan, Cobalt ferrite/polyetherimide composites as thermally stable materials for electromagnetic interference, Int. J. Mol. Sci., 24, 999 (2022).	5,6	5,6	-	5,6
9	E.-L. Epure, I. Stoica, R.M. Albu, C. Hulubei, **A.I. Barzic**, New strategy for inducing surface anisotropy in	5,3	5,3	-	5,3

	polyimide films for nematics orientation in display applications, Nanomaterials, 11, 3107 (2021)				
10	I. Stoica, R.M. Albu, C. Hulubei, D.G. Astanei, R. Burlica, G.A.M. Mersal, T.A. Seaf Elnasr, **A.I. Barzic**, A.Y. Elnaggar, A new texturing approach of a polyimide shielding cover for enhanced light propagation in photovoltaic devices, Nanomaterials, 12, 3249 (2022)	5,3	5,3	-	5,3
11	R.F. Barzic, **A.I. Barzic**, Gh. Dumitrascu, Percolation network formation in poly(4-vinylpyridine)/aluminum nitride nanocomposites: rheological, dielectric, and thermal investigations, Polym. Compos., 35, 1543 (2014)	5,2	5,2	-	5,2
12	**A.I. Barzic**, C. Hulubei, M. Asandulesa, G. Lisa, D. Popovici, I. Stoica, A. Nicolescu, R. M. Albu, Interlayer dielectrics based on copolyimides containing non-coplanar alicyclic-units for multilevel high-speed electronics, Polym. Test., 90, 106704 (2020)	5,1	5,1	5,1	5,1
13	**A.I. Barzic,** R.M. Albu, C. Hulubei, S.F. Mahmoud, O.A. Abu Ali, Z.M. El-Bahy, I. Stoica, Polyimide layers with high refractivity and surface wettability adapted for lowering optical losses in solar cells, Polymers, 14, 4049 (2022)	5,0	5,0	5,0	-
14	**A.I. Barzic**, I. Sava, R.M. Albu, C. Ursu, G. Lisa, I. Stoica, Polyimide-derived supramolecular systems containing various amounts of azochromophore for optical storage uses, Polymers, 15, 1056 (2023)	5,0	5,0	5,0	-
15	I. Sava, I. Stoica, I. Topala, I. Mihaila, **A.I. Barzic**, Photodesign and fabrication of surface relief gratings on films of polyimide-based supramolecular systems obtained using host-guest strategy, Polymer, 249, 124829 (2022)	4,6	-	-	-
16	D.O. Dorohoi, M. Postolache, C.D. Nechifor, D. Gh. Dimitriu, R.M. Albu, I. Stoica, **A.I. Barzic**, Review on optical methods used to characterize the linear birefringence of polymer materials for various applications, Molecules, 28, 2955 (2023)	4,6	4,6	-	4,6
17	**A.I. Barzic**, R.D. Rusu, I. Stoica, M.D. Damaceanu, Chain flexibility versus molecular entanglement response to rubbing deformation in designing poly(oxadiazole-naphthylimide)s as liquid crystal orientation layers, J. Mater. Sci., 49, 3080 (2014)	4,5	4,5	4,5	4,5
18	**A.I. Barzic**, C. Hulubei, M.I. Avadanei, I. Stoica, D. Popovici, Polyimide precursor pattern induced by banded liquid crystal matrix: Effect of dianhydride moieties flexibility, J. Mater. Sci., 50, 1358 (2015)	4,5	4,5	4,5	4,5
19	**A.I. Barzic**, C. Hulubei, I. Stoica, R. M. Albu, Insights on light dispersion in semi-alicyclic polyimide alignment layers to reduce optical losses in display devices, Macromol. Mater. Eng., 303, 1800235 (2018)	3,9	3,9	3,.9	3,9
20	**A.I. Barzic**, I. Stoica, N. Fifere, M. Dobromir, C. Hulubei, D.O. Dorohoi, V. Harabagiu, Transparency and	3,8	3,8	3,8	3,8

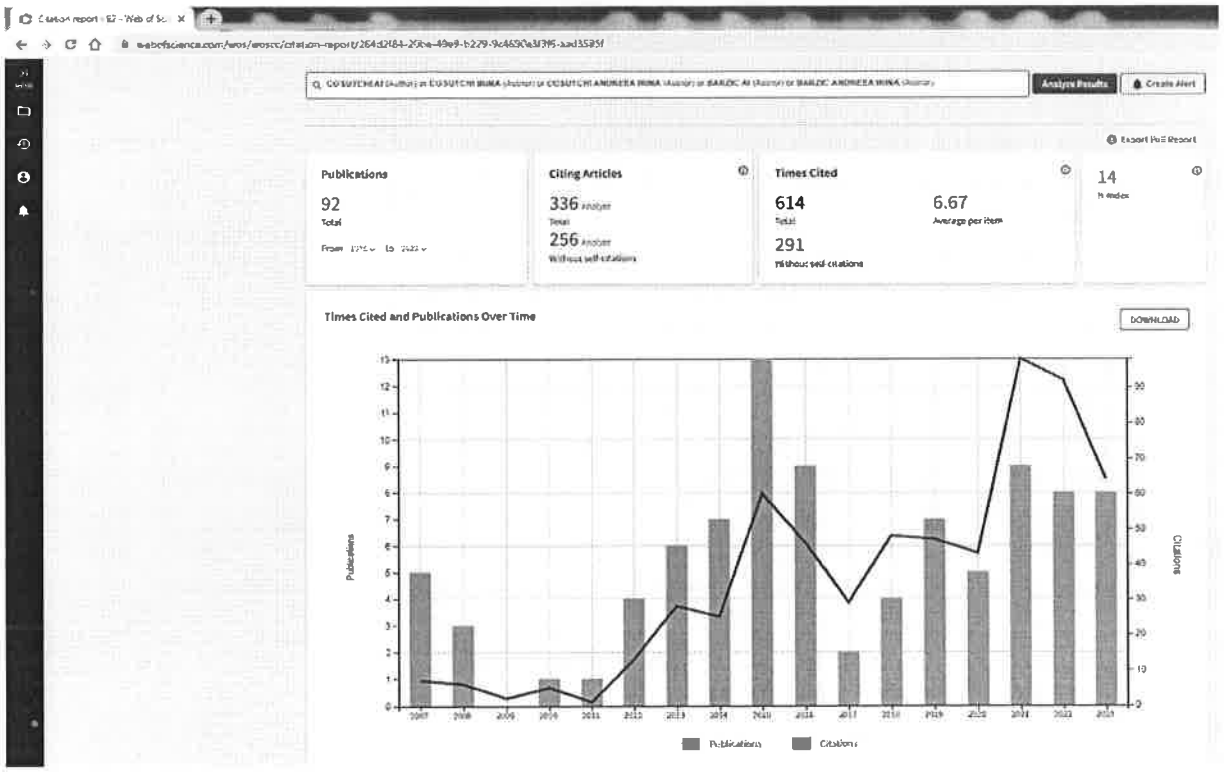
	absorption edges of disiloxane modified copolyimides, J. Mol. Struct., 1044, 203 (2013)				
21	**A.I. Cosutchi**, D.Gh. Dumitriu, C.B. Zelinschi, I. Breaban, D.O. Dorohoi, Optical activity of transparent polymer layers characterized by spectral means, J. Mol. Struct., 1090, 39 (2015)	3,8	3,8	3,.8	-
22	**A.I. Barzic**, R. M. Albu, L. M. Gradinaru, L. I. Buruiana, New insights on solvent implications in flow behavior and interfacial interactions of hydroxypropylmethyl cellulose with cells/bacteria, e-Polymers, 18, 135–142 (2018)	3,7	3,7	3.7	-
23	**A.I. Barzic**, I. Stoica, M. Asandulesa, R.M. Albu, B. Oprisan, Bentonite/hydroxyethylcellulose as ecodielectrics with potential utilization in energy storage, e-Polymers, 23, 20230073 (2023)	3,7	3,7	3.7	-
24	D. Popovici, **A.I. Barzic**, I. Stoica, M. Butnaru, G. E. Ioanid, S. Vlad, C. Hulubei, M. Bruma, Plasma modification of surface wettability and morphology for optimization of the interactions involved in blood constituents spreading on some novel copolyimide films, Plasma Chem. Plasma Proc., 32, 781 (2012)	3,6	-	-	3,6
25	**A.I. Barzic**, Novel aspects derived from the influence of dispersion properties of poly(4-vinylpyridine)/aluminum nitride nanocomposite encapsulants on light-extraction efficiency of light emitting diodes, Polym. Adv. Technol., 33, 1116 (2022)	3,4	3,4	3,4	3,4
26	I. Stoica, **A.I. Barzic**, R. M.Albu, R.-D. Rusu, M.-D. Damaceanu, Alignment layers based on poly(oxadiazole-naphthylimide)s: new aspects on tuning anisotropy of the surface morphology and adhesion via rubbing, Polym. Adv. Technol., 33, 870 (2022)	3,4	3,4	-	3,4
27	I. Stoica, L.I. Buruiana, R. M. Albu, M. Soroceanu, **A.I. Barzic**, Rheological and optical response of hydroxypropyl methylcellulose under variable temperatures for optical switching based on thermo-optical effect, Polym. Adv. Technol., 34, 1245 (2023)	3,4	3,4	-	3,4
28	**A.I. Barzic**, R. M. Albu, I. Stoica, C.D. Nechifor, M.A. Avadanei, D.G. Dimitriu, D.O. Dorohoi, Birefringent polyvinyl alcohol layers as retardation components for display devices, Polym. Adv. Technol., doi: 10.1002/pat.6196 (2023)	3,4	3,4	3,4	-
29	C.D. Nechifor, M. Postolache, R.M. Albu, **A.I. Barzic**, D.O. Dorohoi, Induced birefringence of rubbed and stretched polyvinyl alcohol foils as alignment layers for nematic molecules, Polym. Adv. Technol., 30, 2143-2152 (2019)	3,4	3,4	-	3,4
30	M. Soroceanu, **A.I. Barzic**, I. Stoica, L. Sacarescu, E.G. Ioanid, V. Harabagiu, Plasma effect on polyhydrosilane/metal interfacial adhesion/cohesion interactions, Int. J. Adhes. Adhes., 74, 131 (2017)	3,4	-	-	3,4
31	S. Chisca, **A.I. Barzic**, I. Sava, N. Olaru, M. Bruma,	3,3	3,3	-	3,3

	Morphological and rheological insights on polyimide chain entanglements for electrospinning produced fibers, J. Phys. Chem. B, 116, 9082 (2012)				
32	M. Soroceanu, **A.I. Barzic**, I. Stoica, L. Sacarescu, V. Harabagiu, The influence of polysilane chemical structure on optical properties, rubbed film morphology and LC alignment, Express Polym. Lett., 9, 456–468 (2015)	3,3	3,3	-	3,3
33	R. M. Albu, C. Hulubei, I. Stoica, **A.I. Barzic**, Semi-alicyclic polyimides as potential membrane oxygenators: Rheological implications on film processing, morphology and blood compatibility, Express Polym. Lett., 13, 349–364 (2019)	3,3	3,3	-	3,3
34	**A.I. Barzic**, I. Stoica, D. Popovici, S. Vlad, V. Cozan, C. Hulubei, An insight on the effect of rubbing textile fiber on morphology of some semi-alicyclic polyimides for liquid crystal orientation, Polym. Bull., 70, 1553 (2013)	3,2	3,2	3,2	-
35	D. Popovici, **A.I. Barzic**, R.F. Barzic, D.S. Vasilescu, C. Hulubei, Semi-alicyclic polyimide precursors: structural, optical and biointerface evaluations, Polym. Bull., 73, 331 (2016)	3,2	3,2	-	3,2
36	R.M. Albu, S.L. Nica, **A.I. Barzic**, Refraction and polarization properties of some fluorinated imidic polymers, Polym. Bull., 5, 1535 (2018)	3,2	3,2	-	3,2
37	**A.I. Barzic**, R.M. Albu, Optical properties and biointerface interactions of chitin, Polym. Bull, 78, 6535 (2021)	3,2	-	3,2	3,2
38	**A.I. Barzic**, R. M. Albu, I. Stoica, C.D. Varganici, C. Hulubei, Polyimides containing cycloaliphatic units and chalcogen atoms as alternative shielding coatings for solar cells, Polym. Bull., 80, 4503 (2023)	3,2	3,2	3,2	3,2
39	**A.I. Cosutchi**, S.L. Nica, C. Hulubei, M. Homocianu, S. Ioan, Effects of the aliphatic/aromatic structure on the miscibility, thermal, optical, and rheological properties of some polyimide blends, Polym. Eng. Sci., 52, 1429 (2012)	3,2	3,2	3,2	-
40	**A.I. Barzic**, D.Gh. Dimitriu, D.O. Dorohoi, New method for determining the optical rotatory dispersion of hydroxypropyl cellulose polymer solutions in water, Polym. Eng. Sci., 55, 1077 (2015)	3,2	3,2	3,2	3,2
41	R.M. Albu, I. Stoica, **A.I. Barzic**, M. Postolache, M.D. Angheluta, D.O. Dorohoi, Effect of mechanical treatments on orientation behavior and spectral properties of azo-derivatives dyes incorporated in PVA films, Polym. Eng. Sci. 61, 2453 (2021)	3,2	3,2	-	-
42	**A.I. Barzic**, I. Stoica, N. Fifere, C.D. Vlad, C. Hulubei, Morphological effects on transparency and absorption edges of some semi-alicyclic polyimides, J. Polym. Res., 20, 130 (2013)	2,8	2,8	2,8	2,8
43	L.I. Buruiana, **A.I. Barzic**, I. Stoica, C. Hulubei, Evaluation of blood cells and proteins spreading on imidic	2,8	2,8	-	2,8

	polymers containing alicyclic sequences, J. Polym. Res., 23, 217-224 (2016)				
44	**A.I. Barzic**, M. Soroceanu, R.M. Albu, E.G. Ioanid, L. Sacarescu, V. Harabagiu, Correlation between shear-flow rheology and solution spreading during spin coating of polysilane solutions, Macromol. Res., 27, 1210 (2019)	2,4	2,4	2,4	2,4
45	**A.I. Barzic**, R.M. Albu, E.G. Ioanid, C. Hulubei, Molecular design of some semi-alicyclic polyimides as a route to improve refraction and dielectric properties for liquid crystal display applications, High Perform. Polym., 30, 776 (2018)	2,1	2,1	2,1	-
46	**A.I. Barzic**, D.Gh. Dimitriu, D.O. Dorohoi, Optical rotatory dispersion of poly(propylene oxide) in benzene solution determined from channeled spectra, Int. J. Polym. Anal. Charact., 20, 565 (2015)	1,9	1,9	1,9	1,9
47	**A.I. Barzic**, C.D. Nechifor, I. Stoica, D.O. Dorohoi, On the effects of UV radiation on the release ability of glucose embedded in hydroxypropyl cellulose films, J. Macromol. Sci., Part B, 55, 575 (2016)	1,4	-	1,4	-
48	**A.I. Barzic**, M. Soroceanu, N. Fifere, L. Sacarescu, A. Farcas, V. Harabagiu, Optical constants and electrical conductivity of polysilanes: effects of substituents and iodine doping, Phosphorus Sulfur and Silicon and the Related Elements, 194, 995 (2019)	1,3	1,3	1,3	-
49	**A.I. Barzic**, Percolation effects in MCNT-filled polystyrene: rheological, optical, adhesion and conductive investigations, Mater. Plast. 58(1), 69 (2021)	0,8	0,8	0,8	0,8
50	**A.I. Barzic**, R.M. Albu, C.D. Nechifor, M. Postolache, C. Logigan, D.O. Dorohoi, Surface processing of polyethylene terephthalate for orientation of nematics in display devices, Mater. Plast., 57(2), 1-7 (2020)	0,8	0,8	0,8	-
	PUNCTAJ TOTAL	198,5	175,6	108,1	141,1

15.11.2023

Indicele Hirsch – Web of Science (octombrie 2023)



Data 15.11.2023

Semnătura,