Andreea-Irina Barzic

List of Publications by Year
in descending order

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55 papers	508 citations	623188 14 h-index	794141 19 g-index
58 all docs	58 docs citations	58 times ranked	366 citing authors

#	Article	IF	Citations
1	Morphological and structural-rheological relationship in epiclon-based polyimide/hydroxypropylcellulose blend systems. Journal of Polymer Research, 2010, 17, 541-550.	1.2	37
2	Morphological and Rheological Insights on Polyimide Chain Entanglements for Electrospinning Produced Fibers. Journal of Physical Chemistry B, 2012, 116, 9082-9088.	1.2	32
3	Chain flexibility versus molecular entanglement response to rubbing deformation in designing poly(oxadiazole-naphthylimide)s as liquid crystal orientation layers. Journal of Materials Science, 2014, 49, 3080-3098.	1.7	28
4	A new approach for patterning epiclon-based polyimide precursor films using a lyotropic liquid crystal template. Journal of Polymer Research, 2011, 18, 2389-2402.	1.2	26
5	Morphological effects on transparency and absorption edges of some semi-alicyclic polyimides. Journal of Polymer Research, 2013, 20, 1.	1.2	24
6	Plasma Modification of Surface Wettability and Morphology for Optimization of the Interactions Involved in Blood Constituents Spreading on Some Novel Copolyimide Films. Plasma Chemistry and Plasma Processing, 2012, 32, 781-799.	1.1	20
7	The impact of rubbing fabric type on surface roughness and tribological properties of some semi-alicyclic polyimides evaluated from atomic force measurements. Applied Surface Science, 2013, 268, 442-449.	3.1	20
8	Statistical analysis on morphology development of some semialicyclic polyimides using atomic force microscopy. Microscopy Research and Technique, 2013, 76, 503-513.	1.2	18
9	Surface topography effect on fibroblasts population on epiclon-based polyimide films. Journal of Adhesion Science and Technology, 2015, 29, 2190-2207.	1.4	17
10	Effects of the aliphatic/aromatic structure on the miscibility, thermal, optical, and rheological properties of some polyimide blends. Polymer Engineering and Science, 2012, 52, 1429-1439.	1.5	16
11	Fabrication of nanochannels on polyimide films using dynamic plowing lithography. Applied Surface Science, 2017, 426, 307-314.	3.1	16
12	The influence of polysilane chemical structure on optical properties, rubbed film morphology and LC alignment. EXPRESS Polymer Letters, 2015, 9, 456-468.	1.1	15
13	New shielding covers based on transparent polyimide/ferrous sulfide composites that reduce optical losses in solar cells. Composites Science and Technology, 2022, 218, 109140.	3.8	15
14	An insight on the effect of rubbing textile fiber on morphology of some semi-alicyclic polyimides for liquid crystal orientation. Polymer Bulletin, 2013, 70, 1553-1574.	1.7	14
15	Antagonistic effects in structural design of sulfur-based polyimides as shielding layers for solar cells. Solar Energy Materials and Solar Cells, 2019, 193, 219-230.	3.0	14
16	Semi-alicyclic polyimides as potential membrane oxygenators: Rheological implications on film processing, morphology and blood compatibility. EXPRESS Polymer Letters, 2019, 13, 349-364.	1.1	14
17	Plasma effect on polyhydrosilane/metal interfacial adhesion/cohesion interactions. International Journal of Adhesion and Adhesives, 2017, 74, 131-136.	1.4	12
18	Induced birefringence of rubbed and stretched polyvinyl alcohol foils as alignment layers for nematic molecules. Polymers for Advanced Technologies, 2019, 30, 2143-2152.	1.6	12

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19	Percolation network formation in poly(4-vinylpyridine)/aluminum nitride nanocomposites: Rheological, dielectric, and thermal investigations. Polymer Composites, 2014, 35, 1543-1552.	2.3	11
20	Transparency and absorption edges of disiloxane modified copolyimides. Journal of Molecular Structure, 2013, 1044, 206-214.	1.8	9
21	Insights on Light Dispersion in Semiâ€Alicyclic Polyimide Alignment Layers to Reduce Optical Losses in Display Devices. Macromolecular Materials and Engineering, 2018, 303, 1800235.	1.7	9
22	Surface alteration implications on potential use of semi-alicyclic polyimide as biomedical materials. Applied Surface Science, 2021, 540, 148377.	3.1	9
23	New Strategy for Inducing Surface Anisotropy in Polyimide Films for Nematics Orientation in Display Applications. Nanomaterials, 2021, 11, 3107.	1.9	9
24	Polyimide precursor pattern induced by banded liquid crystal matrix: Effect of dianhydride moieties flexibility. Journal of Materials Science, 2015, 50, 1358-1369.	1.7	8
25	New method for determining the optical rotatory dispersion of hydroxypropyl cellulose polymer solutions in water. Polymer Engineering and Science, 2015, 55, 1077-1081.	1.5	7
26	Semi-alicyclic polyimide precursors: structural, optical and biointerface evaluations. Polymer Bulletin, 2016, 73, 331-344.	1.7	7
27	Optical properties and biointerface interactions of chitin. Polymer Bulletin, 2021, 78, 6535-6548.	1.7	7
28	Cellulose derivative/barium titanate composites with high refractive index, conductivity and energy density. Cellulose, 2022, 29, 863-878.	2.4	7
29	Photodesign and fabrication of surface relief gratings on films of polyimide-based supramolecular systems obtained using host-guest strategy. Polymer, 2022, 249, 124829.	1.8	7
30	Study on glucose release ability from hydroxypropyl cellulose films. Polymer Bulletin, 2015, 72, 549-563.	1.7	6
31	Evaluation of blood cells and proteins spreading on imidic polymers containing alicyclic sequences. Journal of Polymer Research, 2016, 23, 1.	1.2	6
32	Correlation Between Shear-Flow Rheology and Solution Spreading During Spin Coating of Polysilane Solutions. Macromolecular Research, 2019, 27, 1210-1220.	1.0	6
33	Refraction and polarization properties of some fluorinated imidic polymers. Polymer Bulletin, 2018, 75, 1535-1546.	1.7	5
34	Optical Dispersion Characteristics of Polyvinyl Alcohol Reinforced with a Nanoceramic Filler. Materiale Plastice, 2020, 57, 1-7.	0.4	5
35	Optical Rotatory Dispersion of Poly(propylene oxide) in Benzene Solution Determined from Channeled Spectra. International Journal of Polymer Analysis and Characterization, 2015, 20, 565-571.	0.9	4
36	Surface properties and antibacterial testing of a partially alicyclic polyimide film modified by RF plasma and NaOH/AgNO3 treatment. Polymer Testing, 2016, 49, 94-99.	2.3	4

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37	New insights on solvent implications in flow behavior and interfacial interactions of hydroxypropylmethyl cellulose with cells/bacteria. E-Polymers, 2018, 18, 135-142.	1.3	4
38	Effect of mechanical treatments on orientation behavior and spectral properties of azoderivative dyes incorporated in poly(vinyl alcohol) films. Polymer Engineering and Science, 2021, 61, 2453.	1.5	4
39	Polyimides containing cycloaliphatic units and chalcogen atoms as alternative shielding coatings for solar cells. Polymer Bulletin, 2023, 80, 4503-4522.	1.7	4
40	Optical activity of transparent polymer layers characterized by spectral means. Journal of Molecular Structure, 2015, 1090, 39-43.	1.8	3
41	On the Effects of UV Radiation on the Release Ability of Glucose Embedded in Hydroxypropyl Cellulose Films. Journal of Macromolecular Science - Physics, 2016, 55, 575-590.	0.4	3
42	Percolation Effects in MCNT-filled Polystyrene: Rheological,Optical, Adhesion and Conductive Investigations. Materiale Plastice, 2021, 58, 69-77.	0.4	3
43	Three-Dimensional Nanostructures with Biocidal Activity Created on a Siloxane-Containing Copolyimide Film. Key Engineering Materials, 2015, 638, 98-103.	0.4	2
44	Novel aspects derived from the influence of dispersion properties of poly(4â€vinylpyridine)/aluminum nitride nanocomposite encapsulants on lightâ€extraction efficiency of light emitting diodes. Polymers for Advanced Technologies, 2022, 33, 1116-1125.	1.6	2
45	Surface wettability and morphology implications on semi-alicyclic polyimide hemocompatibility. , 2015, , .		1
46	Nanocomposite Polymeric-Based Coatings: From Mathematical Modeling to Experimental Insights for Adapting Microstructure to High-Tech Requirements. , 2016, , 355-371.		1
47	Molecular design of some semi-alicyclic polyimides as a route to improve refraction and dielectric properties for liquid crystal display applications. High Performance Polymers, 2018, 30, 776-786.	0.8	1
48	Surface Wettability and Morphology Implications on Interfacial Interactions of Chitosan with Certain Biological Media. Materiale Plastice, 2020, 57, 19-27.	0.4	1
49	Alignment layers based on poly(oxadiazoleâ€naphthylimide)s: New aspects on tuning anisotropy of the surface morphology and adhesion via rubbing. Polymers for Advanced Technologies, 2022, 33, 870-885.	1.6	1
50	Rheological behavior of biosurfactants. , 2022, , 529-541.		1
51	The impact of three-dimensional morphological changes and local properties induced by plasma treatment on polyimide films at the interface with some electronic components. , 2014, , .		0
52	Polyimide surface modification by RF plasma for biocide attachment. International Journal of Polymer Analysis and Characterization, 2016, 21, 77-84.	0.9	0
53	Optical constants and electrical conductivity of polysilanes: Effects of substituents and iodine doping. Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 995-1002.	0.8	0
54	Chapter 13 Liquid Crystal Polymers under Mechanical and Electromagnetic Fields: From Basic Concepts to Modern Technologies. , 2017, , 207-222.		0

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55	Dispersion of Nicotine Circular Birefringence. Revista De Chimie (discontinued), 2019, 70, 3281-3283.	0.2	0