

# Iuliana Stoica

## List of Publications by Year in descending order

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116  
papers

1,367  
citations

394421

19  
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526287

27  
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117  
all docs

117  
docs citations

117  
times ranked

1344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antifungal vanillin- $\alpha$ -imino-chitosan biodynamic films. Journal of Materials Chemistry B, 2013, 1, 3353.	5.8	69
2	Smart nanoparticles based on pullulan-g-poly(N-isopropylacrylamide) for controlled delivery of indomethacin. International Journal of Biological Macromolecules, 2017, 94, 698-708.	7.5	41
3	Surface properties and antibacterial activity of quaternized polysulfones. Journal of Applied Polymer Science, 2009, 112, 1808-1816.	2.6	39
4	Morphological and structural-rheological relationship in epiclone-based polyimide/hydroxypropylcellulose blend systems. Journal of Polymer Research, 2010, 17, 541-550.	2.4	37
5	Photochromic properties of polyimide and polysiloxane azopolymers. Polymer International, 2009, 58, 163-170.	3.1	32
6	Properties of some azo-copolyimide thin films used in the formation of photoinduced surface relief gratings. RSC Advances, 2015, 5, 10125-10133.	3.6	32
7	Surface morphology and amide concentration depth profile of aminolyzed poly(ethylene Terephthalate). Journal of Applied Polymer Science, 2013, 109, 2301-2308.	2.3	28
8	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.	3.7	28
9	Synthesis and characterization of thermosensitive poly(N-isopropylacrylamide-co-hydroxyethylacrylamide) microgels as potential carriers for drug delivery. Journal of Polymer Research, 2014, 21, 1.	2.4	28
10	A new approach for patterning epiclone-based polyimide precursor films using a lyotropic liquid crystal template. Journal of Polymer Research, 2011, 18, 2389-2402.	2.4	26
11	Morphological effects on transparency and absorption edges of some semi-alicyclic polyimides. Journal of Polymer Research, 2013, 20, 1.	2.4	24
12	Collagen immobilization on polyethylene terephthalate surface after helium plasma treatment. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 1303-1310.	3.5	23
13	Effect of Rotaxane Formation on the Photophysical, Morphological, and Adhesion Properties of Poly[2,7-bis(9,9-dioctylfluorene)-5,5'-bithiophene] Main-Chain Polyrotaxanes. Macromolecular Chemistry and Physics, 2011, 212, 1022-1031.		22
14	Effect of the chemical structure of aromatic-cycloaliphatic copolyimide films on their surface morphology, relaxation behavior and dielectric properties. Journal of Polymer Research, 2013, 20, 1.	2.4	22
15	Polydimethylsiloxane/silica/titania composites prepared by solvent-free sol-gel technique. Journal of Sol-Gel Science and Technology, 2010, 56, 310-319.	2.4	20
16	New imides based on perylene and siloxane derivatives. Dyes and Pigments, 2011, 90, 106-113.	3.7	20
17	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.	2.4	20
18	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.	6.1	20

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19	Morphological Properties and Antibacterial Activity of Nano-Silver-Containing Cellulose Acetate Phthalate Films. <i>International Journal of Polymer Analysis and Characterization</i> , 2010, 15, 341-350.	1.9	19
20	Preparation and characterization of PbTiO <sub>3</sub> epoxy resin compositionally graded thick films. <i>Phase Transitions</i> , 2013, 86, 715-725.	1.3	19
21	Evaluation of Local Mechanical and Chemical Properties via AFM as a Tool for Understanding the Formation Mechanism of Pulsed UV Laser-Nanoinduced Patterns on Azo-Naphthalene-Based Polyimide Films. <i>Nanomaterials</i> , 2021, 11, 812.	4.1	19
22	Synthesis and characterization of magnetite particles covered with $\gamma$ -triethoxysilil-polydimethylsiloxane. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2956-2968.	2.3	18
23	Surface changes upon high-frequency plasma treatment of heritage photographs. <i>Journal of Cultural Heritage</i> , 2011, 12, 399-407.	3.3	18
24	Rheological properties and microstructures of cellulose acetate phthalate/hydroxypropyl cellulose blends. <i>Polymer Composites</i> , 2012, 33, 2072-2083.	4.6	18
25	Statistical analysis on morphology development of some semialicyclic polyimides using atomic force microscopy. <i>Microscopy Research and Technique</i> , 2013, 76, 503-513.	2.2	18
26	Blends based on ionic polysulfones with improved conformational and microstructural characteristics: Perspectives for biomedical applications. <i>Composites Part B: Engineering</i> , 2016, 93, 1-11.	12.0	18
27	Quaternized polysulfones-based blends: Surface properties and performance in life quality and environmental applications. <i>Polymer Testing</i> , 2018, 71, 285-295.	4.8	18
28	Surface Properties and Compatibility with Blood of New Quaternized Polysulfones. <i>Journal of Biomaterials and Nanobiotechnology</i> , 2011, 02, 114-123.	0.5	18
29	Rheological and morphological characteristics of multicomponent polysulfone/poly(vinyl alcohol) systems. <i>Polymer International</i> , 2014, 63, 1856-1868.	3.1	17
30	Poly[2,7-(9,9-dioctylfluorene)-alt-(5,5'-bithiophene)/permethylated $\beta$ -cyclodextrin] main-chain polyrotaxane: Synthesis, characterization and surface morphology. <i>European Polymer Journal</i> , 2014, 50, 223-234.	5.4	17
31	Surface topography effect on fibroblasts population on epichlorohydrin-based polyimide films. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 2190-2207.	2.6	17
32	New polyelectrolyte complex particles as colloidal dispersions based on weak synthetic and/or natural polyelectrolytes. <i>EXPRESS Polymer Letters</i> , 2011, 5, 506-515.	2.1	16
33	Surface properties and blood compatibility of some aliphatic/aromatic polyimide blends. <i>Polymer Engineering and Science</i> , 2013, 53, 263-272.	3.1	16
34	Lyotropic Liquid Crystal Phases in Cellulose Acetate Phthalate/Hydroxypropyl Cellulose Blends. <i>Journal of Polymers and the Environment</i> , 2014, 22, 99-111.	5.0	16
35	Fabrication of nanochannels on polyimide films using dynamic plowing lithography. <i>Applied Surface Science</i> , 2017, 426, 307-314.	6.1	16
36	Synthesis of Poly(Ethylene Brassylate-Co-squaric Acid) as Potential Essential Oil Carrier. <i>Pharmaceutics</i> , 2021, 13, 477.	4.5	16

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37	Morphological features and thermal and mechanical response in segmented polyurethane elastomers based on mixtures of isocyanates. <i>Polymer Journal</i> , 2011, 43, 613-620.	2.7	15
38	Surface properties and biocompatibility of cellulose acetates. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2521-2528.	2.6	15
39	The influence of polysilane chemical structure on optical properties, rubbed film morphology and LC alignment. <i>EXPRESS Polymer Letters</i> , 2015, 9, 456-468.	2.1	15
40	New shielding covers based on transparent polyimide/ferrous sulfide composites that reduce optical losses in solar cells. <i>Composites Science and Technology</i> , 2022, 218, 109140.	7.8	15
41	An insight on the effect of rubbing textile fiber on morphology of some semi-alicyclic polyimides for liquid crystal orientation. <i>Polymer Bulletin</i> , 2013, 70, 1553-1574.	3.3	14
42	Semi-alicyclic polyimides as potential membrane oxygenators: Rheological implications on film processing, morphology and blood compatibility. <i>EXPRESS Polymer Letters</i> , 2019, 13, 349-364.	2.1	14
43	Surface characterization of quaternized polysulfone films and biocompatibility studies. <i>Journal of Applied Polymer Science</i> , 2011, 121, 127-137.	2.6	13
44	Origin of rheological behavior and surface/interfacial properties of some semi-alicyclic polyimides for biomedical applications. <i>Polymer Bulletin</i> , 2013, 70, 2873-2893.	3.3	13
45	Surface relief gratings induced by pulsed laser irradiation in low glass transition temperature azopolysiloxanes. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	13
46	Silver nanoparticles obtained with a glucose modified siloxane surfactant. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2163-2177.	1.9	12
47	Rheological and Morphological Properties of Phosphorus-Containing Polysulfones. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 36-46.	1.9	12
48	Calcium carbonate microparticle templates using a PHOS-b-PMAA double hydrophilic copolymer. <i>Journal of Applied Crystallography</i> , 2013, 46, 1455-1466.	4.5	12
49	Plasma effect on polyhydrosilane/metal interfacial adhesion/cohesion interactions. <i>International Journal of Adhesion and Adhesives</i> , 2017, 74, 131-136.	2.9	12
50	Alginate/Lignosulfonate Blends with Photoprotective and Antioxidant Properties for Active Packaging Applications. <i>Journal of Polymers and the Environment</i> , 2018, 26, 1100-1112.	5.0	12
51	pH-sensitive nanostructured architectures based on synthetic and/or natural weak polyelectrolytes. <i>Colloid and Polymer Science</i> , 2011, 289, 1387-1396.	2.1	11
52	An atomic force microscopy statistical analysis of laser-induced azo-polyimide periodic tridimensional nanogrooves. <i>Microscopy Research and Technique</i> , 2013, 76, 914-923.	2.2	11
53	New polyimide-based porous crosslinked beads by suspension polymerization: physical and chemical factors affecting their morphology. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	11
54	Interlayer dielectrics based on copolyimides containing non-coplanar alicyclic-units for multilevel high-speed electronics. <i>Polymer Testing</i> , 2020, 90, 106704.	4.8	11

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55	Influence of Casting Solution Characteristics on Cellulose Acetate Membranes: Rheology and Atomic Force Microscopy. <i>International Journal of Polymer Analysis and Characterization</i> , 2010, 15, 166-181.	1.9	10
56	Thermal analysis and theoretical study of $\beta$ -cyclodextrin azomethine [2]-rotaxane formation by semi-empirical method PM3. <i>Chemical Physics Letters</i> , 2011, 514, 74-78.	2.6	10
57	Photoinduced properties of $\alpha$ -T-type polyimides with azobenzene or azopyridine moieties. <i>European Polymer Journal</i> , 2020, 126, 109563.	5.4	10
58	Surface Properties of Cellulose Acetate. <i>High Performance Polymers</i> , 2010, 22, 598-608.	1.8	9
59	Surface properties of conjugated main-chain polyrotaxanes. <i>Chemical Physics Letters</i> , 2011, 508, 111-116.	2.6	9
60	Silver Nanoparticles in Cellulose Acetate Polymers: Rheological and Morphological Properties. <i>Journal of Macromolecular Science - Physics</i> , 2011, 50, 639-651.	1.0	9
61	Silicone composites containing stabilized silver clusters or nanoparticles. <i>Polymers for Advanced Technologies</i> , 2012, 23, 122-129.	3.2	9
62	Hydrogen-bonded supramolecular polymers containing dimethylsilane groups: Synthesis, crystal structure, and characterization. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3775-3787.	2.3	9
63	Transparency and absorption edges of disiloxane modified copolyimides. <i>Journal of Molecular Structure</i> , 2013, 1044, 206-214.	3.6	9
64	Supramolecular Aggregation in Organic Solvents of Discrete Copper Complexes Formed with Organosiloxane Ligands. <i>Soft Materials</i> , 2015, 13, 93-105.	1.7	9
65	Insights on Light Dispersion in Semi- $\alpha$ -Cyclic Polyimide Alignment Layers to Reduce Optical Losses in Display Devices. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800235.	3.6	9
66	Surface alteration implications on potential use of semi- $\alpha$ -cyclic polyimide as biomedical materials. <i>Applied Surface Science</i> , 2021, 540, 148377.	6.1	9
67	New Strategy for Inducing Surface Anisotropy in Polyimide Films for Nematics Orientation in Display Applications. <i>Nanomaterials</i> , 2021, 11, 3107.	4.1	9
68	Structural and dielectric properties of some epichlorohydrin-based polyimide films. <i>E-Polymers</i> , 2008, 8, .	3.0	8
69	Glycidoxypropylsilane-functionalized Magnetite as Precursor for Polymer-covered Core-shell Magnetic Particles. <i>High Performance Polymers</i> , 2009, 21, 548-561.	1.8	8
70	A simple method for the preparation of colloidal polymer-supported silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6971-6980.	1.9	8
71	Polyimide precursor pattern induced by banded liquid crystal matrix: Effect of dianhydride moieties flexibility. <i>Journal of Materials Science</i> , 2015, 50, 1358-1369.	3.7	8
72	Nanoscale analysis of laser-induced surface relief gratings on azo-copolyimide films before and after gold coating. <i>Polymer Testing</i> , 2018, 72, 407-415.	4.8	8

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73	Miscibility and morphological properties of quaternized polysulfone blends with polystyrene and poly(4-vinylpyridine). <i>Polymer Composites</i> , 2011, 32, 1661-1670.	4.6	7
74	The effect of permethylated cyclodextrins encapsulation on the photophysical properties of a polyfluorene with randomly distributed electron-donor and rotaxane electron-acceptor units. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2145-2156.	2.2	7
75	Establishing proper scanning conditions in atomic force microscopy on polyimide and polyurethane samples and their effect on 3D surface texture parameters. <i>Scanning</i> , 2015, 37, 335-349.	1.5	7
76	Treatment of Polymeric Films Used for Printed Electronic Circuits Using Ambient Air DBD Non-Thermal Plasma. <i>Materials</i> , 2022, 15, 1919.	2.9	7
77	Photodesign and fabrication of surface relief gratings on films of polyimide-based supramolecular systems obtained using host-guest strategy. <i>Polymer</i> , 2022, 249, 124829.	3.8	7
78	Spectral studies of Donepezil release from stretched PVA polymer films. <i>Journal of Molecular Structure</i> , 2013, 1044, 262-267.	3.6	6
79	Study on glucose release ability from hydroxypropyl cellulose films. <i>Polymer Bulletin</i> , 2015, 72, 549-563.	3.3	6
80	Electromechanical properties of polyimide composites containing titanium dioxide nanotubes. <i>High Performance Polymers</i> , 2015, 27, 590-598.	1.8	6
81	Evaluation of blood cells and proteins spreading on imidic polymers containing alicyclic sequences. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	6
82	Comparative study on the properties of a bio-based copolymacrolactone system. <i>Polymer Testing</i> , 2022, 109, 107555.	4.8	6
83	Changes in morphology and optical properties of polyvinyl alcohol foils induced by Congo red dye concentration and stretching degree. <i>Journal of Polymer Engineering</i> , 2014, 34, 345-351.	1.4	5
84	Collagen immobilization on poly(ethylene terephthalate) and polyurethane films after UV functionalization. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 2208-2219.	2.6	5
85	Structural Characterization of a New Collagen Biomimetic Octapeptide with Nanoscale Self-Assembly Potential: Experimental and Theoretical Approaches. <i>ChemPlusChem</i> , 2022, 87, e202100462.	2.8	5
86	Surface properties and antibacterial testing of a partially alicyclic polyimide film modified by RF plasma and NaOH/AgNO <sub>3</sub> treatment. <i>Polymer Testing</i> , 2016, 49, 94-99.	4.8	4
87	Effect of mechanical treatments on orientation behavior and spectral properties of azoderivative dyes incorporated in poly(vinyl alcohol) films. <i>Polymer Engineering and Science</i> , 2021, 61, 2453.	3.1	4
88	Advanced morphological, statistical and molecular simulations analysis of laser-induced micro/nano multiscale surface relief gratings. <i>Surfaces and Interfaces</i> , 2022, 29, 101743.	3.0	4
89	Polyimides containing cycloaliphatic units and chalcogen atoms as alternative shielding coatings for solar cells. <i>Polymer Bulletin</i> , 2023, 80, 4503-4522.	3.3	4
90	Polysulfones with chelating groups for heavy metals retention. <i>Polymer Composites</i> , 2012, 33, 573-581.	4.6	3

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91	Influence of triphenylphosphonium pendant groups on the rheological and morphological properties of new quaternized polysulfone. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1752-1762.	2.6	3
92	Gold layers on untreated and plasma-treated substrates of quaternized polysulfones. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2803-2813.	2.5	3
93	On the Effects of UV Radiation on the Release Ability of Glucose Embedded in Hydroxypropyl Cellulose Films. <i>Journal of Macromolecular Science - Physics</i> , 2016, 55, 575-590.	1.0	3
94	UV radiation-induced surface modulation time evolution in polymeric materials. , 2009, , .		2
95	A new zwitterionic siloxane compound: structural characterization, the solution behavior and surface properties evaluation. <i>Journal of Molecular Liquids</i> , 2014, 196, 319-325.	4.9	2
96	Zirconium and titanium surface treatment using non-thermal plasma for dentistry applications. , 2014, , .		2
97	Dichroism of stretched poly vinyl alcohol (PVA) foils containing pyridazinium ylids II. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
98	Three-Dimensional Nanostructures with Biocidal Activity Created on a Siloxane-Containing Copolyimide Film. <i>Key Engineering Materials</i> , 2015, 638, 98-103.	0.4	2
99	Effects of GlidArc plasma treatment on metallic surface. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
100	Electrical resistivity under different humidity conditions for plasma-treated and gold-sputtered polyimide films. <i>Polymer Bulletin</i> , 2016, 73, 1531-1544.	3.3	2
101	Morphological changes induced in erythrocyte membrane by the antiepileptic treatment: An atomic force microscopy study. <i>Microscopy Research and Technique</i> , 2017, 80, 364-373.	2.2	2
102	Semi-Alicyclic Polyimides: Insights into Optical Properties and Morphology Patterning Approaches for Advanced Technologies. , 0, , .		1
103	Surface wettability and morphology implications on semi-alicyclic polyimide hemocompatibility. , 2015, , .		1
104	Effect of oxygen plasma treatment and gold sputtering on morphological and local mechanical properties of copolyimide/gold micropatterned structures. <i>Surface and Interface Analysis</i> , 2018, 50, 154-162.	1.8	1
105	Surface Wettability and Morphology Implications on Interfacial Interactions of Chitosan with Certain Biological Media. <i>Materiale Plastice</i> , 2020, 57, 19-27.	0.8	1
106	Development and Morphological Characterization of Novel Polyimide/Metal nano Hybrid Materials. <i>Materiale Plastice</i> , 2019, 57, 94-103.	0.8	1
107	Alignment layers based on poly(oxadiazoleâ€naphthylimide)s: New aspects on tuning anisotropy of the surface morphology and adhesion via rubbing. <i>Polymers for Advanced Technologies</i> , 2022, 33, 870-885.	3.2	1
108	Materials Based on Quaternized Polysulfones with Potential Applications in Biomedical Field: Structureâ€“Properties Relationship. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4721.	4.1	1

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109	UV radiation induced surface modulation time evolution in polymeric materials. , 2010, , .		0
110	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
111	Polyimide surface modification by RF plasma for biocide attachment. International Journal of Polymer Analysis and Characterization, 2016, 21, 77-84.	1.9	0
112	The Influence of Azobenzene Content on Azopolyimides Capacity to Form Laser-Induced Surface Relief Gratings. , 2020, , 87-102.		0
113	Effect of scanning speed on AFM height images and 3D surface texture parameters explored on smooth and rough polymer surfaces. Revue Roumaine De Chimie, 2021, 66, 199-204.	0.2	0
114	Investigation of surface relief gratings on azo-copolyimide films using atomic force microscopy. Revue Roumaine De Chimie, 2021, 66, 193-198.	0.2	0
115	HEMOCOMPATIBILITY EVALUATION OF PARTIALLY ALIPHATIC COPOLYIMIDES FILMS CONTAINING CARBOXYL PENDANT GROUP. , 2015, , .		0
116	Chapter 12 Structuring of Polymer Surfaces via Laser Irradiation as a Tool for Micro- and Nanotechnologies. , 2017, , 191-206.		0