

List of Publications by Year in descending order

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ΙΛΥΛΝΤ

#	Article	IF	CITATIONS
1	Unraveling the mechanism of thermal and thermo-oxidative degradation of tannic acid. Thermochimica Acta, 2015, 605, 77-85.	1.2	138
2	Techniques for characterization of charge carrier mobility in organic semiconductors. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1130-1144.	2.4	137
3	Bacteriorhodopsin Thin-Film Assemblies—Immobilization, Properties, and Applications. Advanced Materials, 1999, 11, 435-446.	11.1	95
4	Novel photo-crosslinked nonlinear optical polymers. Die Makromolekulare Chemie Rapid Communications, 1991, 12, 63-68.	1.1	78
5	Fire resistant polyphenols based on chemical modification of bio-derived tannic acid. Polymer Degradation and Stability, 2018, 153, 227-243.	2.7	68
6	New photocrosslinkable polymers for second-order nonlinear optical processes. Die Makromolekulare Chemie Rapid Communications, 1991, 12, 607-612.	1.1	59
7	Organic photosensitizers with catechol groups for dye-sensitized photovoltaics. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 168, 191-196.	2.0	59
8	Molecular assembly of proteins and conjugated polymers: Toward development of biosensors. Biotechnology and Bioengineering, 1995, 45, 116-121.	1.7	50
9	Synthesis and optical properties of polyureas with azoaromatic groups in the main chain. Macromolecular Chemistry and Physics, 1997, 198, 2279-2289.	1.1	49
10	Formation mechanism of surface relief structures on amorphous azopolymer films. Physical Review B, 2006, 73, .	1.1	49
11	Covalent functionalization of cellulose in cotton and a nylon-cotton blend with phytic acid for flame retardant properties. Cellulose, 2020, 27, 11-24.	2.4	44
12	Bio-Based Flame-Retardant Coatings Based on the Synergistic Combination of Tannic Acid and Phytic Acid for Nylon–Cotton Blends. ACS Applied Materials & Interfaces, 2021, 13, 61620-61628.	4.0	44
13	Biochemical synthesis of water soluble polyanilines: Poly(p-aminobenzoic acid). Macromolecular Rapid Communications, 1996, 17, 859-863.	2.0	42
14	Performance enhancement of dye-sensitized solar cells by incorporating graphene sheets of various sizes. Applied Surface Science, 2014, 314, 638-641.	3.1	39
15	CHEMO-ENZYMATIC SYNTHESIS AND CHARACTERIZATION OF NOVEL FUNCTIONALIZED AMPHIPHILIC POLYMERS. Journal of Macromolecular Science - Pure and Applied Chemistry, 2002, 39, 1137-1149.	1.2	32
16	Determination of Electron and Hole Mobility of Regioregular Poly(3â€hexylthiophene) by the Time of Flight Method. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 1261-1264.	1.2	32
17	Crossâ€ŀinked Multilayer Polymerâ€Clay Nanocomposites and Permeability Properties. Journal of Macromolecular Science - Pure and Applied Chemistry, 2004, 41, 1401-1410.	1.2	29
18	Synthesis of nanoparticles of P3HT and PCBM for optimizing morphology in polymeric solar cells. Applied Surface Science, 2014, 323, 13-18.	3.1	29

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19	Enhancing the inscription rate of surface relief gratings with an incoherent assisting light beam. Applied Physics Letters, 2004, 84, 4517-4519.	1.5	25
20	Synthesis and Modeling of Acridine Dyes as Potential Photosensitizers for Dye‣ensitized Photovoltaic Applications. Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 1907-1922.	1.2	24
21	ENZYMATIC SYNTHESIS OF MOLECULAR COMPLEXES OF POLYANILINE WITH DNA AND SYNTHETIC OLIGONUCLEOTIDES: THERMAL AND MORPHOLOGICAL CHARACTERIZATION. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 1519-1537.	1.2	23
22	Chemiluminescence-based inhibition kinetics of alkaline phosphatase in the development of a pesticide biosensor Biotechnology Progress, 1995, 11, 699-703.	1.3	21
23	Biocatalytic Synthesis of Waterâ€Soluble Oligo(catechins). Journal of Macromolecular Science - Pure and Applied Chemistry, 2005, 42, 1547-1554.	1.2	21
24	Detection of Explosive Vapors by Surface Acoustic Wave Sensors Containing Novel Siloxane Based Coatings. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 1172-1175.	1.2	21
25	Designing Supertough and Ultrastretchable Liquid Metal-Embedded Natural Rubber Composites for Soft-Matter Engineering. ACS Applied Materials & Interfaces, 2021, 13, 15610-15620.	4.0	21
26	Synthesis and self-assembled multilayer thin film formation of water-soluble conjugated aromatic polyimines. Macromolecular Chemistry and Physics, 1998, 199, 1445-1450.	1.1	20
27	Synthesis of a self organizable curcumin derivative and investigation of its interaction with metals in 100% aqueous media. Tetrahedron, 2014, 70, 991-995.	1.0	20
28	Holographic fabrication of polarization selective diffractive optical elements on azopolymer film. Polymers for Advanced Technologies, 2000, 11, 570-574.	1.6	19
29	Soybean Peroxidase Catalyzed Enzymatic Synthesis of Pyrrole/EDOT Copolymers. Macromolecular Chemistry and Physics, 2010, 211, 1610-1617.	1.1	19
30	Voltage tunable multicolor light emitting diodes based on a dye-doped polythiophene derivative. Synthetic Metals, 2002, 126, 283-288.	2.1	18
31	Layerâ€byâ€layer assembly of halogenâ€free polymeric materials on nylon/cotton blend for flame retardant applications. Fire and Materials, 2016, 40, 206-218.	0.9	17
32	Synthesis and properties of water soluble singleâ€walled carbon nanotube graft ionic polyacetylene nanocomposites. Polymer Composites, 2009, 30, 1817-1824.	2.3	16
33	Fabrication of Dye-sensitized Solar Cells and Fluorescence Quenching Study Using Thiophene Based Copolymers. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 1180-1183.	1.2	16
34	Hydrophobic barrier: Molecular self-assembly of amphiphilic polyacetylenes within aluminosilicate nanoplatelets. Journal of Membrane Science, 2006, 275, 12-16.	4.1	15
35	Fabrication of Polymeric Visual Decoys for the Male Emerald Ash Borer (Agrilus planipennis). Journal of Bionic Engineering, 2013, 10, 129-138.	2.7	15
36	Facile microwave assisted flame retardant treatment for cotton fabric using a biobased industrial byproduct: phytic acid. Cellulose, 2021, 28, 10655-10674.	2.4	15

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37	Self-doped carboxylated polyaniline: effect of hydrogen bonding on the doping of polymers. Macromolecular Research, 2009, 17, 631-637.	1.0	14
38	Enzymatic Polymerization of Phenolic Biomonomers Derived from Cashew Nut Shell Liquid. Journal of Macromolecular Science - Pure and Applied Chemistry, 1997, 34, 665-674.	1.2	13
39	SYNTHESIS AND ELECTROSPINNING OF A NOVEL FLUORESCENT POLYMER PMMA-PM FOR QUENCHING-BASED OPTICAL SENSING. Journal of Macromolecular Science - Pure and Applied Chemistry, 2002, 39, 1241-1249.	1.2	13
40	Strong two-photon-induced fluorescence from a highly soluble polythiophene. Optics Communications, 2011, 284, 3612-3614.	1.0	12
41	Biocatalytic Synthesis of Fluorescent Conjugated Indole Oligomers. Bioengineering, 2014, 1, 246-259.	1.6	12
42	Photoâ€fabrication of surface relief gratings on polymer films. Macromolecular Symposia, 1997, 116, 127-134.	0.4	11
43	INVESTIGATION OF BIREFRINGENCE AND SURFACE RELIEF GRATING FORMATION IN AZOPOLYMER FILMS. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 1445-1462.	1.2	11
44	CARBOXYLATED POLYTHIOPHENES: POLYMER BIOSENSORS IN LIQUID AND SOLID STATES*. Journal of Macromolecular Science - Pure and Applied Chemistry, 2002, 39, 1127-1136.	1.2	11
45	Sensitive Detection of Nitroaromatics With Colloidal Conjugated Polymer Nanoparticles. IEEE Sensors Journal, 2013, 13, 2329-2333.	2.4	11
46	Enhanced Sensory Response of Quaterthiophene Bearing 1,2,3-Triazole Moiety to Explosives. IEEE Sensors Journal, 2014, 14, 4334-4339.	2.4	11
47	Wearable Thermoelectric Devices Based on Three-Dimensional PEDOT:Tosylate/CuI Paper Composites. ACS Applied Materials & Interfaces, 2021, 13, 46919-46926.	4.0	11
48	Candida antarctica Lipase B Catalyzed Copolymerizations of Nonâ€proteinogenic Amino Acids and Poly(Ethylene Glycol) to Generate Novel Functionalized Polyesters. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1283-1293.	1.2	10
49	Molecular Assembly by Sequential Ionic Adsorption of Nanocrystalline TiO2 and a Conjugated Polymer. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1307-1316.	1.2	10
50	Stilbene-Based Fluorescent Sensor for Detection of Organophosphorus Warfare Nerve Agents. Journal of Macromolecular Science - Pure and Applied Chemistry, 2009, 46, 1217-1222.	1.2	10
51	Investigation of QCM Sensors with Azobenzene Functionalized Coatings for the Detection of Nitroaromatics. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 1031-1037.	1.2	10
52	A straightforward route to electron transporting conjugated polymers. Journal of Materials Chemistry, 2012, 22, 16091.	6.7	10
53	Mono―and Dinuclear Ruthenium Complexes for Nanocrystalline TiO2 Based Dyeâ€Sensitized Photovoltaics. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1317-1325.	1.2	9
54	Synthesis and Characterization of Fluorescent Cellulose. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1275-1282.	1.2	9

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55	Technical Note: Nanometric organic photovoltaic thin film detectors for dose monitoring in diagnostic xâ€ray imaging. Medical Physics, 2015, 42, 4027-4032.	1.6	9
56	A New Approach to Catalyze Template Polymerization of Aniline Using Electrostatically Multilayered Hematin Assemblies. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1335-1346.	1.2	8
57	Synthesis and Properties of Selfâ€doped Polyaniline with Polycationic Templates via Biocatalysis. Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 2007-2018.	1.2	8
58	Biocatalytic Synthesis of Multiâ€block Copolymer Composed of Poly(tetrahydrofuran) and Poly(ethylene oxide). Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 1975-1981.	1.2	8
59	Template-Assisted Synthesis of Self-Doped Polyaniline: Morphological Effects of Templates on the Conductivity. Macromolecular Rapid Communications, 2007, 28, 1356-1360.	2.0	7
60	Synthesis and Sensing Applications of Fluorescent 3-Cinnamoyl Coumarins. Sensors, 2015, 15, 31987-31998.	2.1	7
61	Unusual role of labile phenolics in imparting flame resistance to polyamide. Polymer Degradation and Stability, 2020, 175, 109103.	2.7	7
62	Water soluble, conjugated main chain azo polymer: Synthesis and characterization. Macromolecular Rapid Communications, 1996, 17, 853-857.	2.0	6
63	CHEMOENZYMATIC FUNCTIONALIZATION OF RIBONUCLEIC ACID WITH AZOBENZENE CHROMOPHORES. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 1383-1392.	1.2	6
64	Probing the electronic structure of a conjugated polymer through fifth-order electroabsorption spectroscopy. Optics Communications, 2002, 201, 197-206.	1.0	6
65	Polybutadiene Modified Polyaniline Microparticles. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1383-1396.	1.2	6
66	Peroxidase atalyzed Polymerization of 1â€Hydroxypyrene. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1407-1414.	1.2	6
67	Synthesis of Amphiphilic Guanylated Polymers as Potential Gene Delivery Carriers. Journal of Macromolecular Science - Pure and Applied Chemistry, 2004, 41, 1459-1466.	1.2	6
68	Design and Synthesis of Interpenetrating Polymer Networks for Second-order Nonlinear Optics. Polymers for Advanced Technologies, 1996, 7, 303-308.	1.6	5
69	Fabrication of Gold Nanoâ€Structures with Azopolymer Templates. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 1299-1303.	1.2	5
70	Determining the Critical Particle Size to Induce Enhanced Emission in Aggregates of a Highly Twisted Triarylamine. ChemPhysChem, 2013, 14, 3682-3686.	1.0	5
71	Environment-Friendly Post-Treatment of PEDOT-Tos Films by Aqueous Vitamin C Solutions for Tuning of Thermoelectric Properties. Journal of Electronic Materials, 2018, 47, 3963-3968.	1.0	5
72	Fluorination of an <i>N,N,N′,N′</i> -Tetraphenylbenzidine Derivative as a Dopant-Free Hole-Transporting Material for Moisture-Resistant Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 10459-10467.	2.5	5

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73	Biocatalytic Synthesis of Two-Photon Active Resveratrol Oligomer. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 1061-1066.	1.2	4
74	Performance enhancement of fullerene based solar cells upon NIR laser irradiation. RSC Advances, 2015, 5, 48526-48532.	1.7	4
75	ENZYMATIC SYNTHESIS OF POLY(HYDROXYSTILBENE)S. A NEW CLASS OF LUMINESCENT DYE. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 1463-1471.	1.2	3
76	Effect of Temperature on the Enzymatic Polymerization of 4â€Propylphenol: An In Situ 1Hâ€NMR Study. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1423-1431.	1.2	3
77	Biosynthesis of Liquid Crystalline Azoâ€Polyesters. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 1245-1248.	1.2	3
78	Synthesis and Characterization of a Ruthenium(II) Complex for Photovoltaic Cells. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 1255-1260.	1.2	3
79	Horseradish Peroxidase Catalyzed Synthesis of Polycardanol Microcapsules. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 1004-1008.	1.2	3
80	Amphiphilic Copolymers having Saturated and Unsaturated Aliphatic Side Chains as Nano Carriers for Drug Delivery Applications. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 1009-1015.	1.2	3
81	Fabrication of TiO ₂ Grating with Composites of Azobenzene Polymer and TiO ₂ Nanoparticles. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 1329-1332.	1.2	2
82	A Simple Technique for Submicron Scale Patterning of Silver Using Visible Light Interference. Journal of Macromolecular Science - Pure and Applied Chemistry, 2008, 45, 963-966.	1.2	2
83	Sensory Response and Two-Photon-Fluorescence Study of Regioregular Polythiophene Nanoparticles. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 1049-1054.	1.2	2
84	Optimized Processing Condition for a Photocrosslinkable Stable Nonlinear Optical Polymer. Materials Research Society Symposia Proceedings, 1990, 214, 79.	0.1	1
85	Polyimide/Norganic Composite - Interpenetrating Polymer Network For Stable Second-Order Nonlinear Optics. Materials Research Society Symposia Proceedings, 1993, 328, 541.	0.1	1
86	Investigation of Second Harmonic Generation in MOCVD Grown Barium Titanate Thin Films. Materials Research Society Symposia Proceedings, 1993, 335, 87.	0.1	1
87	Optical Properties of Distyrylbenzene Chromophores and their Segmented Copolymers. Materials Research Society Symposia Proceedings, 1997, 488, 533.	0.1	1
88	Characterizing the NLO Chromophore Orientation of Polymeric Film by Electroabsorption Spectroscopy. Materials Research Society Symposia Proceedings, 1997, 488, 801.	0.1	1
89	Conformation of Azobenzeneâ€Modified Poly(αâ€Lâ€Clutamate) (AZOPLGA) in Thin Films: Solid State NMR Studies. Journal of Macromolecular Science - Pure and Applied Chemistry, 2004, 41, 1359-1368.	1.2	1
90	Response to "Comment on â€~Enhancing the inscription rate of surface relief gratings with an incoherent assisting light beam' ―[Appl. Phys. Lett. 86, 146101 (2005)]. Applied Physics Letters, 200 146102.	5, 865	1

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91	Synthesis of Mainâ€Chain Liquidâ€Crystalline Polyesters Containing Diphenyl Mesogens by Chemoâ€Enzymatic Route. Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 1983-1990.	1.2	1
92	Detection of Explosives using nanofibrous membranes. , 2008, , .		1
93	Synthesis and Characterization of a Thiophene Copolymer for Photovoltaic Application. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 1044-1048.	1.2	1
94	Two-photon active polymeric nanoparticles for high contrast in vitro imaging. RSC Advances, 2014, 4, 1116-1119.	1.7	1
95	Biocatalyic synthesis of unusually photoluminescent oligomers and electrically conducting polymers of 4â€(3â€pyrrolyl)butyric acid. Journal of Applied Polymer Science, 2014, 131, .	1.3	1
96	Effects of Nanoimprinted Structures on the Performance of Organic Solar Cells. Journal of Nanomaterials, 2018, 2018, 1-6.	1.5	1
97	Bacteriorhodopsin Thin-Film Assemblies—Immobilization, Properties, and Applications. , 1999, 11, 435.		1
98	New Strategies for the Fabrication of Enzyme Electrodes. Materials Research Society Symposia Proceedings, 1995, 414, 119.	0.1	0
99	Multilayer Enzyme Assembly for the Development of a Novel Fiber Optic Biosensor. Materials Research Society Symposia Proceedings, 1995, 414, 125.	0.1	0
100	Biocatalysis for Material Science and Drug Discoveries. Materials Research Society Symposia Proceedings, 2007, 1065, 1.	0.1	0
101	Conjugated Polymer:TiO2 Nanocomposite Solar Cells Based on P3HT Nanoparticles. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	0
102	Corrigendum to "Effects of Nanoimprinted Structures on the Performance of Organic Solar Cellsâ€. Journal of Nanomaterials, 2018, 2018, 1-1.	1.5	0
103	SU-E-CAMPUS-I-01: Nanometric Organic Photovoltaic Thin Film X-Ray Detectors for Clinical KVp Beams. Medical Physics, 2014, 41, 384-385.	1.6	0