

Jayant Kumar

List of Publications by Year in descending order

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315
papers

11,555
citations

38738

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37202

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316
all docs

316
docs citations

316
times ranked

9107
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospun Nanofibrous Membranes for Highly Sensitive Optical Sensors. Nano Letters, 2002, 2, 1273-1275.	9.1	735
2	Surface relief structures on azo polymer films. Journal of Materials Chemistry, 1999, 9, 1941-1955.	6.7	712
3	Enzymatically Synthesized Conducting Polyaniline. Journal of the American Chemical Society, 1999, 121, 71-78.	13.7	490
4	Gradient force: The mechanism for surface relief grating formation in azobenzene functionalized polymers. Applied Physics Letters, 1998, 72, 2096-2098.	3.3	464
5	Electrostatic Assembly of Conjugated Polymer Thin Layers on Electrospun Nanofibrous Membranes for Biosensors. Nano Letters, 2004, 4, 331-334.	9.1	340
6	Photoinduced surface deformations on azobenzene polymer films. Journal of Applied Physics, 1999, 86, 4498-4508.	2.5	250
7	The Role of Template in the Enzymatic Synthesis of Conducting Polyaniline. Journal of the American Chemical Society, 1999, 121, 11345-11355.	13.7	227
8	Electrostatic Multilayer Deposition of a Gold ⁰ Dendrimer Nanocomposite. Chemistry of Materials, 1999, 11, 3268-3274.	6.7	210
9	Epoxy-Based Nonlinear Optical Polymers from Post Azo Coupling Reaction. Macromolecules, 1997, 30, 219-225.	4.8	172
10	Biologically Derived Conducting and Water Soluble Polyaniline. Macromolecules, 1998, 31, 4376-4378.	4.8	170
11	Photofabrication of Surface Relief Grating on Films of Azobenzene Polymer with Different Dye Functionalization. Macromolecules, 2000, 33, 4220-4225.	4.8	158
12	A Detailed Investigation of the Polarization-Dependent Surface-Relief-Grating Formation Process on Azo Polymer Films. Japanese Journal of Applied Physics, 1999, 38, 5928-5937.	1.5	149
13	Manipulating DNA Conformation Using Intertwined Conducting Polymer Chains. Macromolecules, 2001, 34, 3921-3927.	4.8	149
14	Efficient Light Harvesting Polymers for Nanocrystalline TiO ₂ Photovoltaic Cells. Nano Letters, 2003, 3, 523-525.	9.1	145
15	Metal Oxide-Coated Polymer Nanofibers. Nano Letters, 2003, 3, 143-147.	9.1	145
16	Enzymatic Synthesis and Characterization of a Novel Water-Soluble Polyaniline: Poly(2,5-diaminobenzenesulfonate). Macromolecules, 1997, 30, 4024-4029.	4.8	143
17	Oriented Bacteriorhodopsin/Polycation Multilayers by Electrostatic Layer-by-Layer Assembly. Langmuir, 1998, 14, 1674-1679.	3.5	143
18	Unraveling the mechanism of thermal and thermo-oxidative degradation of tannic acid. Thermochimica Acta, 2015, 605, 77-85.	2.7	138

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19	Techniques for characterization of charge carrier mobility in organic semiconductors. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1130-1144.	2.1	137
20	Helical Conformational Specificity of Enzymatically Synthesized Water-Soluble Conducting Polyaniline Nanocomposites. Journal of the American Chemical Society, 2003, 125, 11502-11503.	13.7	133
21	An Enzymatically Synthesized Conducting Molecular Complex of Polyaniline and Poly(vinylphosphonic acid). Macromolecules, 2000, 33, 9542-9547.	4.8	117
22	Supramolecular Assemblies Based on Copolymers of PEG600 and Functionalized Aromatic Diesters for Drug Delivery Applications. Journal of the American Chemical Society, 2004, 126, 10640-10644.	13.7	114
23	Cross-linked stable second order nonlinear optical polymer by photochemical reaction. Applied Physics Letters, 1991, 58, 2459-2460.	3.3	113
24	Enzymatic Synthesis of Conducting Polyaniline in Micelle Solutions. Langmuir, 2002, 18, 9696-9704.	3.5	111
25	Dye-sensitized Solar Cell Fabricated by Electrostatic Layer-by-Layer Assembly of Amphoteric TiO ₂ Nanoparticles. Langmuir, 2003, 19, 2169-2174.	3.5	111
26	Self-assembled second order nonlinear optical multilayer azo polymer. Macromolecular Rapid Communications, 1997, 18, 451-459.	3.9	110
27	Biomimetic Synthesis of a Water Soluble Conducting Molecular Complex of Polyaniline and Lignosulfonate. Biomacromolecules, 2002, 3, 937-941.	5.4	103
28	Bacteriorhodopsin Thin-Film Assemblies—Immobilization, Properties, and Applications. Advanced Materials, 1999, 11, 435-446.	21.0	95
29	Surface-Initiated Mechanism for the Formation of Relief Gratings on Azo-Polymer Films. Journal of Physical Chemistry B, 1998, 102, 6064-6070.	2.6	90
30	Epoxy-Based Nonlinear Optical Polymers Functionalized with Tricyanovinyl Chromophores. Chemistry of Materials, 1997, 9, 45-50.	6.7	84
31	Photo-cross-linked Immobilization of Polyelectrolytes for Enzymatic Construction of Conductive Nanocomposites. Journal of the American Chemical Society, 2005, 127, 9100-9104.	13.7	82
32	ELECTROSPINNING TECHNOLOGY: A NOVEL APPROACH TO SENSOR APPLICATION. Journal of Macromolecular Science - Pure and Applied Chemistry, 2002, 39, 1251-1258.	2.2	79
33	Novel photo-crosslinked nonlinear optical polymers. Die Makromolekulare Chemie Rapid Communications, 1991, 12, 63-68.	1.1	78
34	The Effect of Viscosity and Filler on Electrospun Fiber Morphology. Journal of Macromolecular Science - Pure and Applied Chemistry, 2003, 40, 1415-1422.	2.2	76
35	A renewable waste material for the synthesis of a novel non-halogenated flame retardant polymer. Journal of Cleaner Production, 2011, 19, 454-458.	9.3	73
36	Photochemical Behavior and Formation of Surface Relief Grating on Self-Assembled Polyion/Dye Composite Film. Journal of Physical Chemistry B, 2000, 104, 10513-10521.	2.6	72

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37	Enzymic Mediated Synthesis of Conjugated Polymers at the Langmuir Trough Air-Water Interface. <i>Langmuir</i> , 1995, 11, 889-892.	3.5	68
38	Azo Chromophore-Functionalized Polyelectrolytes. 2. Acentric Self-Assembly through a Layer-by-Layer Deposition Process. <i>Chemistry of Materials</i> , 1998, 10, 1554-1560.	6.7	68
39	Fire resistant polyphenols based on chemical modification of bio-derived tannic acid. <i>Polymer Degradation and Stability</i> , 2018, 153, 227-243.	5.8	68
40	Azo Chromophore-Functionalized Polyelectrolytes. 1. Synthesis, Characterization, and Photoprocessing. <i>Chemistry of Materials</i> , 1998, 10, 1546-1553.	6.7	67
41	Biocatalytically Synthesized Poly(3,4-ethylenedioxythiophene). <i>Macromolecules</i> , 2008, 41, 3049-3052.	4.8	66
42	Flexible perovskite based X-ray detectors for dose monitoring in medical imaging applications. <i>Physics in Medicine</i> , 2018, 5, 20-23.	1.3	62
43	New photocrosslinkable polymers for second-order nonlinear optical processes. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1991, 12, 607-612.	1.1	59
44	Organic photosensitizers with catechol groups for dye-sensitized photovoltaics. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 168, 191-196.	3.9	59
45	A simple experiment for determining Verdet constants using alternating current magnetic fields. <i>American Journal of Physics</i> , 1999, 67, 714-717.	0.7	57
46	Photoelectric Properties of Oriented Bacteriorhodopsin/Polycation Multilayers by Electrostatic Layer-by-Layer Assembly. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7067-7072.	2.6	56
47	Enzymatic Synthesis of Photoactive Poly(4-phenylazophenol). <i>Chemistry of Materials</i> , 2000, 12, 1577-1584.	6.7	56
48	Photoinduced Surface Relief Grating on Amorphous Poly(4-phenylazophenol) Films. <i>Chemistry of Materials</i> , 2000, 12, 1585-1590.	6.7	56
49	An Enzymatically Synthesized Polyaniline: A Solid-State NMR Study. <i>Macromolecules</i> , 2004, 37, 4130-4138.	4.8	53
50	Photoinduced surface relief gratings in high-Tg main-chain azoaromatic polymer films. <i>Journal of Polymer Science Part A</i> , 1998, 36, 283-289.	2.3	51
51	Biomimetic Synthesis of Water-Soluble Conducting Copolymers/Homopolymers of Pyrrole and 3,4-Ethylenedioxythiophene. <i>Biomacromolecules</i> , 2006, 7, 586-589.	5.4	51
52	Antioxidant Activity of Synthetic Polymers of Phenolic Compounds. <i>Polymers</i> , 2020, 12, 1646.	4.5	51
53	Enhanced two-beam mixing gain in photorefractive GaAs using alternating electric fields. <i>Optics Letters</i> , 1987, 12, 120.	3.3	50
54	Molecular assembly of proteins and conjugated polymers: Toward development of biosensors. <i>Biotechnology and Bioengineering</i> , 1995, 45, 116-121.	3.3	50

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55	ELECTROSPUN PHOTOVOLTAIC CELLS. Journal of Macromolecular Science - Pure and Applied Chemistry, 2002, 39, 1085-1094.	2.2	50
56	Synthesis and optical properties of polyureas with azoaromatic groups in the main chain. Macromolecular Chemistry and Physics, 1997, 198, 2279-2289.	2.2	49
57	Novel Layer-by-layer Complexation Technique and Properties of the Fabricated Films. Chemistry of Materials, 1999, 11, 2250-2256.	6.7	49
58	Formation mechanism of surface relief structures on amorphous azopolymer films. Physical Review B, 2006, 73, .	3.2	49
59	Investigation of the photorefractive behavior of chrome-doped GaAs by using two-beam coupling. Optics Letters, 1986, 11, 650.	3.3	47
60	Heteroaromatic Chromophore Functionalized Epoxy-Based Nonlinear Optical Polymers. Macromolecules, 1998, 31, 4126-4134.	4.8	46
61	Layered Aluminosilicate/Chromophore Nanocomposites and Their Electrostatic Layer-by-Layer Assembly. Chemistry of Materials, 2001, 13, 243-246.	6.7	46
62	Ordered Multilayer Nanocomposites Prepared by Electrostatic Layer-by-Layer Assembly between Aluminosilicate Nanoplatelets and Substituted Ionic Polyacetylenes. Chemistry of Materials, 2002, 14, 3925-3929.	6.7	46
63	Nanocrystalline TiO ₂ -Catalyzed Solid-State Polymerization of Diacetylene in the Visible Region. Journal of the American Chemical Society, 2007, 129, 7238-7239.	13.7	45
64	Covalent functionalization of cellulose in cotton and a nylon-cotton blend with phytic acid for flame retardant properties. Cellulose, 2020, 27, 11-24.	4.9	44
65	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.	8.0	44
66	In Situ Polymerized Carboxylated Diacetylene as a Hole Conductor in Solid-State Dye-Sensitized Solar Cells. Chemistry of Materials, 2006, 18, 4215-4217.	6.7	43
67	Simple green synthesis of polyborosiloxanes as environmentally-safe, non-halogenated flame retardant polymers. Green Chemistry, 2011, 13, 659.	9.0	43
68	Biochemical synthesis of water soluble polyanilines: Poly(p-aminobenzoic acid). Macromolecular Rapid Communications, 1996, 17, 859-863.	3.9	42
69	Biocatalytic Polymerization of p-Cresol: An in-Situ NMR Approach To Understand the Coupling Mechanism. Macromolecules, 2002, 35, 9990-9998.	4.8	42
70	Flexible, Dye-Sensitized Nanocrystalline Solar Cells Employing Biocatalytically Synthesized Polymeric Electrolytes. Chemistry of Materials, 2004, 16, 4841-4846.	6.7	42
71	Surface relief gratings from electrostatically layered azo dye films. Applied Physics Letters, 2000, 76, 3233-3235.	3.3	40
72	Biocatalytically Oligomerized Epicatechin with Potent and Specific Anti-proliferative Activity for Human Breast Cancer Cells. Molecules, 2008, 13, 2704-2716.	3.8	39

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73	Enzymatic Synthesis and Characterization of PolyQuercetin. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 1191-1196.	2.2	39
74	Enhancing sensing of nitroaromatic vapours by thiophene-based polymer films. Journal of Materials Chemistry, 2011, 21, 16597.	6.7	39
75	Electrostatic Self-Assembly of Polydiacetylene Nanocrystals: A Nonlinear Optical Properties and Chain Orientation. Journal of Physical Chemistry B, 1999, 103, 11050-11056.	2.6	38
76	Sensitive and fast recognition of explosives using fluorescent polymer sensors and pattern recognition analysis. Sensors and Actuators B: Chemical, 2011, 160, 1237-1243.	7.8	37
77	Synthesis of macromolecular systems via lipase catalyzed biocatalytic reactions: applications and future perspectives. Chemical Society Reviews, 2016, 45, 6855-6887.	38.1	37
78	Micellar Nanoreactors for Hematin Catalyzed Synthesis of Electrically Conducting Polypyrrole. Langmuir, 2012, 28, 13380-13386.	3.5	36
79	Nanocomposites from in-Situ Polymerization of Substituted Polyacetylene within Lamellar Surface of the Montmorillonite: A Solid-State NMR Study. Macromolecules, 2003, 36, 2777-2784.	4.8	35
80	Halogen-free ultra-high flame retardant polymers through enzyme catalysis. Green Chemistry, 2012, 14, 819.	9.0	35
81	Mechanistic Study of the Peroxidase-Catalyzed Polymerization of Sulfonated Phenol. Macromolecules, 2001, 34, 3522-3526.	4.8	34
82	PEROXIDASE, HEMATIN, AND PEGYLATED-HEMATIN CATALYZED VINYL POLYMERIZATIONS IN WATER. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 1219-1230.	2.2	34
83	Synthesis of novel poly(ethylene glycol) based amphiphilic polymers. European Polymer Journal, 2003, 39, 1983-1990.	5.4	34
84	Monitoring the Enzymatic Polymerization of 4-Phenylphenol by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry: A Novel Approach. Biomacromolecules, 2002, 3, 889-893.	5.4	33
85	Dynamic chemical vapor sensing with nanofibrous film based surface acoustic wave sensors. Sensors and Actuators A: Physical, 2011, 167, 8-13.	4.1	33
86	Enzymatically Synthesized Photodynamic Polyaniline Containing Azobenzene Groups. Chemistry of Materials, 1998, 10, 1270-1275.	6.7	32
87	CHEMO-ENZYMATIC SYNTHESIS AND CHARACTERIZATION OF NOVEL FUNCTIONALIZED AMPHIPHILIC POLYMERS. Journal of Macromolecular Science - Pure and Applied Chemistry, 2002, 39, 1137-1149.	2.2	32
88	Biocatalytic "green" synthesis of PEG-based aromatic polyesters: optimization of the substrate and reaction conditions. Green Chemistry, 2004, 6, 516-520.	9.0	32
89	Optical and Electrochemical Detection of Saccharides with Poly(aniline-co-3-aminobenzenboronic acid) Prepared from Enzymatic Polymerization. Biomacromolecules, 2007, 8, 3602-3607.	5.4	32
90	Determination of Electron and Hole Mobility of Regioregular Poly(3-hexylthiophene) by the Time of Flight Method. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 1261-1264.	2.2	32

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91	Measurement of two-wave mixing gain in GaAs with a moving grating. Optics Communications, 1987, 63, 191-193.	2.1	31
92	Synthesis of polyaniline derivatives via biocatalysis. Green Chemistry, 2007, 9, 44-48.	9.0	31
93	New Processable, Functionalizable Polydiacetylenes. Macromolecules, 1999, 32, 7361-7369.	4.8	30
94	Synthesis of polypyrrole with fewer structural defects using enzyme catalysis. Synthetic Metals, 2011, 161, 1611-1617.	3.9	30
95	Two-photon fluorescence properties of curcumin as a biocompatible marker for confocal imaging. Applied Physics Letters, 2012, 100, .	3.3	30
96	Polyelectrolyte-Containing Fullerene I: Synthesis and Characterization of the Copolymers of 4-Vinylbenzoic Acid with C60. Chemistry of Materials, 1998, 10, 2058-2066.	6.7	29
97	Synthesis and Characterization of Novel Azobenzene-Modified Polymers: Azocellulose. Macromolecules, 2001, 34, 9193-9196.	4.8	29
98	Cross-linked Multilayer Polymer-Clay Nanocomposites and Permeability Properties. Journal of Macromolecular Science - Pure and Applied Chemistry, 2004, 41, 1401-1410.	2.2	29
99	Synthesis of nanoparticles of P3HT and PCBM for optimizing morphology in polymeric solar cells. Applied Surface Science, 2014, 323, 13-18.	6.1	29
100	Nanocomposite Derived from Intercalative Spontaneous Polymerization of 2-Ethynylpyridine within Layered Aluminosilicate: Montmorillonite. Chemistry of Materials, 2001, 13, 2756-2758.	6.7	28
101	POLYMERIZATION OF WATER-SOLUBLE CONDUCTIVE POLYPHENOL USING HORSERADISH PEROXIDASE. Journal of Macromolecular Science - Pure and Applied Chemistry, 2001, 38, 1417-1426.	2.2	28
102	Enhanced performance of polythiophene derivative based light emitting diodes by addition of europium and ruthenium complexes. Synthetic Metals, 1998, 98, 45-49.	3.9	27
103	Systematic study on photofabrication of surface relief grating on high-tg azobenzene polymers. Synthetic Metals, 1999, 102, 1435-1436.	3.9	27
104	Reusable SERS active substrates for ultrasensitive molecular detection. Sensors and Actuators B: Chemical, 2015, 220, 794-798.	7.8	27
105	Photorefractive two-beam coupling with applied radio-frequency fields: theory and experiment. Journal of the Optical Society of America B: Optical Physics, 1987, 4, 1079.	2.1	26
106	Biosensors for pesticide detection based on alkaline phosphatase-catalyzed chemiluminescence. Materials Science and Engineering C, 1995, 2, 191-196.	7.3	26
107	Biocatalytic approaches for synthesis of conducting polyaniline nanoparticles. Pure and Applied Chemistry, 2005, 77, 339-344.	1.9	26
108	Nanocomposites of TiO2 and Siloxane Copolymers as Environmentally Safe Flame-Retardant Materials. Journal of Macromolecular Science - Pure and Applied Chemistry, 2008, 45, 942-946.	2.2	26

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109	A Biotinylated Undecylthiophene Copolymer Bioconjugate for Surface Immobilization: Creating an Alkaline Phosphatase Chemiluminescence-Based Biosensor. <i>Bioconjugate Chemistry</i> , 1996, 7, 159-164.	3.6	25
110	VARIATION IN THE STRUCTURE OF CONDUCTING POLYANILINE WITH AND WITHOUT THE PRESENCE OF TEMPLATE DURING ENZYMIC POLYMERIZATION: A SOLID-STATE NMR STUDY. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2002, 39, 1223-1240.	2.2	25
111	Enhancing the inscription rate of surface relief gratings with an incoherent assisting light beam. <i>Applied Physics Letters</i> , 2004, 84, 4517-4519.	3.3	25
112	Novozym [®] 435-Catalyzed Syntheses of Polyesters and Polyamides of Medicinal and Industrial Relevance. <i>ChemSusChem</i> , 2014, 7, 379-390.	6.8	25
113	Mechanistic study of enzyme catalyzed polymerization of 8-hydroxyquinoline-5-sulfonate using nuclear magnetic resonance spectroscopy. <i>Macromolecular Rapid Communications</i> , 1997, 18, 133-137.	3.9	24
114	Self Assembly of Organic Microcrystals 1: Electrostatic Attachment of Polydiacetylene Microcrystals on a Polyelectrolyte Surface. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L343-L345.	1.5	24
115	Mechanisms of surface-relief gratings formation in layer-by-layer films from azodyes. <i>Polymer</i> , 2003, 44, 6129-6133.	3.8	24
116	Synthesis and Modeling of Acridine Dyes as Potential Photosensitizers for Dye-Sensitized Photovoltaic Applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006, 43, 1907-1922.	2.2	24
117	A stable biomimetic redoxcatalyst obtained by the enzyme catalyzed amidation of iron porphyrin. <i>Green Chemistry</i> , 2009, 11, 334-338.	9.0	24
118	Enzyme-catalyzed polymerization of 8-hydroxyquinoline-5-sulfonate by in situ nuclear magnetic resonance spectroscopy. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1257-1264.	2.6	23
119	ENZYMATIC SYNTHESIS OF MOLECULAR COMPLEXES OF POLYANILINE WITH DNA AND SYNTHETIC OLIGONUCLEOTIDES: THERMAL AND MORPHOLOGICAL CHARACTERIZATION. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2001, 38, 1519-1537.	2.2	23
120	Influence of EDA-? interactions in drug encapsulation using nanospheres. <i>Chemical Communications</i> , 2004, , 2689.	4.1	23
121	Infrared power limiting and self-switching in CdTe. <i>Applied Physics Letters</i> , 1988, 53, 840-841.	3.3	22
122	Opto-optical switching in the infrared using CdTe. <i>Optics Letters</i> , 1989, 14, 224.	3.3	22
123	Trace Analysis of Zn(II), Be(II), and Bi(III) by Enzyme-Catalyzed Chemiluminescence. <i>Analytical Chemistry</i> , 1996, 68, 216-220.	6.5	22
124	PHOTOINDUCED SURFACE RELIEF GRATINGS ON AZOCELLULOSE FILMS. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2001, 38, 1345-1354.	2.2	22
125	BIOLOGICALLY DERIVED PHOTOACTIVE MACROMOLECULAR AZODYES. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2001, 38, 1355-1370.	2.2	22
126	Azobenzene-Modified Poly(l-glutamic acid) (AZOPLGA): Its Conformational and Photodynamic Properties. <i>Biomacromolecules</i> , 2003, 4, 366-371.	5.4	22

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127	Ultraviolet photoelectron spectroscopy of nanocrystalline TiO ₂ films sensitized with (2,2'-bipyridyl)ruthenium(II) dyes for photovoltaic applications. <i>Organic Electronics</i> , 2005, 6, 55-64.	2.6	22
128	Biocatalytic routes toward pharmaceutically important precursors and novel polymeric systems. <i>Pure and Applied Chemistry</i> , 2005, 77, 209-226.	1.9	22
129	Spectroscopic and Microscopic Analysis of Photo-cross-linked Vinylbenzylthymine Copolymers for Photoresist Applications. <i>Chemistry of Materials</i> , 2006, 18, 2873-2878.	6.7	22
130	Simple fabrication of zinc oxide nanostructures. <i>Journal of Materials Chemistry</i> , 2008, 18, 637.	6.7	22
131	Chemiluminescence-based inhibition kinetics of alkaline phosphatase in the development of a pesticide biosensor.. <i>Biotechnology Progress</i> , 1995, 11, 699-703.	2.6	21
132	NOVEL ENZYMATIC POLYETHYLENE OXIDE-POLYPHENOL SYSTEM FOR IONIC CONDUCTIVITY. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2002, 39, 1061-1068.	2.2	21
133	Biocatalytic Synthesis of Water-Soluble Oligo(catechins). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2005, 42, 1547-1554.	2.2	21
134	Sensory response of pegylated and siloxanated 4,8-dimethylcoumarins: A fluorescence quenching study by nitro aromatics. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 105-110.	7.8	21
135	Detection of Explosive Vapors by Surface Acoustic Wave Sensors Containing Novel Siloxane Based Coatings. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010, 47, 1172-1175.	2.2	21
136	Novel PEGylated Amphiphilic Copolymers as Nanocarriers for Drug Delivery: Synthesis, Characterization and Curcumin Encapsulation. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010, 47, 1154-1160.	2.2	21
137	A chemiluminescence-based biosensor for metal ion detection. <i>Materials Science and Engineering C</i> , 1995, 3, 79-83.	7.3	20
138	Biomimetic Synthesis of Water Soluble Conductive Polypyrrole and Poly(3,4-ethylenedioxythiophene). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2003, 40, 1327-1333.	2.2	20
139	Self-Assembly of PEG and Diester Copolymers: Effect of PEG Length, Linker, Concentration and Temperature. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2005, 42, 1523-1528.	2.2	20
140	Thermally Stable Polymers of Cardanol as Char-Forming Additives for Polypropylene. <i>Journal of Renewable Materials</i> , 2013, 1, 289-301.	2.2	20
141	Synthesis of a self organizable curcumin derivative and investigation of its interaction with metals in 100% aqueous media. <i>Tetrahedron</i> , 2014, 70, 991-995.	1.9	20
142	Comments on the Analysis of Copolymers of C ₆₀ with Vinyl Monomers Obtained by Free Radical Polymerization. <i>Macromolecules</i> , 1997, 30, 7351-7354.	4.8	19
143	Holographic fabrication of polarization selective diffractive optical elements on azopolymer film. <i>Polymers for Advanced Technologies</i> , 2000, 11, 570-574.	3.2	19
144	Surface-Relief Gratings on Azobenzene-Containing Films. , 2002, , 429-l.		19

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145	Soybean Peroxidase Catalyzed Enzymatic Synthesis of Pyrrole/EDOT Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1610-1617.	2.2	19
146	The monomolecular organization of a photodynamic protein system through specific surface recognition of streptavidin by biotinylated Langmuir-Blodgett films. <i>Langmuir</i> , 1992, 8, 604-608.	3.5	18
147	Voltage tunable multicolor light emitting diodes based on a dye-doped polythiophene derivative. <i>Synthetic Metals</i> , 2002, 126, 283-288.	3.9	18
148	Design and synthesis of perfluorinated amphiphilic copolymers: Smart nanomicelles for theranostic applications. <i>Polymer</i> , 2011, 52, 4727-4735.	3.8	18
149	Thin film processing of NLO materials. I. Studies on relaxation behaviour of corona poled aromatic dipolar molecules in a polymer matrix. <i>European Polymer Journal</i> , 1991, 27, 735-741.	5.4	17
150	Oriented Z-Type Langmuir-Blodgett Films from a Soluble Asymmetrically Substituted Polydiacetylene. <i>Macromolecules</i> , 1996, 29, 1416-1421.	4.8	17
151	Electroabsorption spectroscopy study of an azopolymer film fabricated by electrostatic adsorption. <i>Applied Physics Letters</i> , 1998, 73, 3345-3347.	3.3	17
152	Highly efficient diastereoselective biocatalytic acylation of a diastereotopic furanose diol and synthesis of key intermediates for amino derivatized bicyclonucleosides. <i>Tetrahedron</i> , 2003, 59, 1333-1338.	1.9	17
153	Layer-by-layer assembly of halogen-free polymeric materials on nylon/cotton blend for flame retardant applications. <i>Fire and Materials</i> , 2016, 40, 206-218.	2.0	17
154	Self-Doped Polyaniline/Poly(diallyldimethyl ammonium chloride) Complex: N-Type Doping with High Stability. <i>Chemistry of Materials</i> , 2006, 18, 2201-2204.	6.7	16
155	Biocatalytic Synthesis of Organosiloxane Copolyimide. <i>Macromolecules</i> , 2007, 40, 7742-7744.	4.8	16
156	Synthesis and properties of water soluble single-walled carbon nanotube graft ionic polyacetylene nanocomposites. <i>Polymer Composites</i> , 2009, 30, 1817-1824.	4.6	16
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