

List of Publications by Year in
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

193 papers	4,071 citations	36 h-index	51 g-index
205 ext. papers	4,967 ext. citations	4.6 avg, IF	5.89 L-index

#	Paper	IF	Citations
193	Hybrid OrganicInorganic Membranes for Photocatalytic Water Remediation. <i>Catalysts</i> , 2022 , 12, 180	4	6
192	Nanobioremediation for soil remediation: An introduction 2022 , 479-500		
191	Wound healing and antibacterial chitosan-genipin hydrogels with controlled drug delivery for synergistic anti-inflammatory activity.. <i>International Journal of Biological Macromolecules</i> , 2022 , 203, 679-679	7.9	3
190	pH-Induced 3D Printable Chitosan Hydrogels for Soft Actuation.. <i>Polymers</i> , 2022 , 14,	4.5	3
189	Enhanced mar/scratch resistance in automotive clear coatings by modifying crosslinked polyurethane network with branched flexible oligomers. <i>Progress in Organic Coatings</i> , 2022 , 163, 106668	4.8	2
188	Ionic liquid modified electroactive polymer-based microenvironments for tissue engineering. <i>Polymer</i> , 2022 , 246, 124731	3.9	0
187	Poly(lactic-co-glycolide) based biodegradable electrically and magnetically active microenvironments for tissue regeneration applications. <i>European Polymer Journal</i> , 2022 , 111197	5.2	2
186	Tough Hydrogels Based on Maleic Anhydride, Bulk Properties Study and Microfiber Formation by Electrospinning. <i>Polymers</i> , 2021 , 13,	4.5	1
185	Effect of metal-oxide nanoparticle presence and alginate cross-linking on cellulose nanocrystal-based aerogels. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50639	2.9	3
184	Development of Kraft Lignin Chemically Modified as a Novel Crosslinking Agent for the Synthesis of Active Hydrogels. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4012	2.6	0
183	Study of the capacity of poly(N-vinylcarbazole) derivatives to form honeycomb-like patterns. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50975	2.9	0
182	Biocompatible hyaluronic acid-divinyl sulfone injectable hydrogels for sustained drug release with enhanced antibacterial properties against Staphylococcus aureus. <i>Materials Science and Engineering C</i> , 2021 , 125, 112102	8.3	3
181	Controlling tackiness of shape memory polyurethanes for textile applications. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	0
180	Antibacterial catechol-based hyaluronic acid, chitosan and poly (N-vinyl pyrrolidone) coatings onto Ti6Al4V surfaces for application as biomedical implant. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 1222-1235	7.9	3
179	Tailoring new bisphenol a ethoxylated shape memory polyurethanes. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49660	2.9	1
178	Green alternative cosolvents to -methyl-2-pyrrolidone in water polyurethane dispersions.. <i>RSC Advances</i> , 2021 , 11, 19070-19075	3.7	5
177	3D printable self-healing hyaluronic acid/chitosan polycomplex hydrogels with drug release capability. <i>International Journal of Biological Macromolecules</i> , 2021 , 188, 820-832	7.9	4

176	Antibacterial chitosan electrostatic/covalent coating onto biodegradable poly (l-lactic acid). <i>Food Hydrocolloids</i> , 2020 , 105, 105835	10.6	10
175	Silk fibroin magnetoactive nanocomposite films and membranes for dynamic bone tissue engineering strategies. <i>Materialia</i> , 2020 , 12, 100709	3.2	17
174	Experimental investigation of the nonlinear quasi-static and dynamic mechanical behaviour of novel PA6/XHNBR thermoplastic vulcanizates: Linking mechanical nonlinearities to microstructural features. <i>Materials Today Communications</i> , 2020 , 25, 101395	2.5	1
173	Photocatalytic and antimicrobial multifunctional nanocomposite membranes for emerging pollutants water treatment applications. <i>Chemosphere</i> , 2020 , 250, 126299	8.4	45
172	Antibacterial Coatings for Improving the Performance of Biomaterials. <i>Coatings</i> , 2020 , 10, 139	2.9	26
171	New ways to improve the damping properties in high-performance thermoplastic vulcanizates. <i>Polymer International</i> , 2020 , 69, 467-475	3.3	7
170	UV curable nanocomposites with tailored dielectric response. <i>Polymer</i> , 2020 , 196, 122498	3.9	11
169	Poly(l-lactide)-Based Anti-Inflammatory Responsive Surfaces for Surgical Implants. <i>Polymers</i> , 2020 , 13,	4.5	2
168	Tailoring silk fibroin separator membranes pore size for improving performance of lithium ion batteries. <i>Journal of Membrane Science</i> , 2020 , 598, 117678	9.6	24
167	Lignin-Based Hydrogels: Synthesis and Applications. <i>Polymers</i> , 2020 , 12,	4.5	55
166	Polysaccharide-Based In Situ Self-Healing Hydrogels for Tissue Engineering Applications. <i>Polymers</i> , 2020 , 12,	4.5	14
165	Polycarbazole and Its Derivatives: Synthesis and Applications. A Review of the Last 10 Years. <i>Polymers</i> , 2020 , 12,	4.5	24
164	Biomaterials obtained by photopolymerization: from UV to two photon. <i>Emergent Materials</i> , 2020 , 3, 453-468	3.5	11
163	Structural Characterization of Mono and Dihydroxylated Umbelliferone Derivatives. <i>Molecules</i> , 2020 , 25,	4.8	1
162	Glycerol phosphate/genipin chitosan hydrogels: A comparative study of their properties and diclofenac delivery. <i>Carbohydrate Polymers</i> , 2020 , 248, 116811	10.3	20
161	Zero-Valent Iron Nanoparticles for Soil and Groundwater Remediation. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	36
160	Optically transparent silk fibroin/silver nanowire composites for piezoresistive sensing and object recognitions. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13053-13062	7.1	7
159	Biodegradable Shape-Memory Polymers. <i>Advanced Structured Materials</i> , 2020 , 219-236	0.6	1

158	State-of-the-Art and Future Challenges of UV Curable Polymer-Based Smart Materials for Printing Technologies. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800618	6.8	117
157	The Effect of the Isomeric Chlorine Substitutions on the Honeycomb-Patterned Films of Poly(x-chlorostyrene)s/Polystyrene Blends and Copolymers via Static Breath Figure Technique. <i>Materials</i> , 2019 , 12,	3.5	1
156	Novel Antibacterial and Toughened Carbon-Fibre/Epoxy Composites by the Incorporation of TiO Nanoparticles Modified Electrospun Nanofibre Veils. <i>Polymers</i> , 2019 , 11,	4.5	7
155	Stimuli responsive UV cured polyurethane acrylated/carbon nanotube composites for piezoresistive sensing. <i>European Polymer Journal</i> , 2019 , 120, 109226	5.2	14
154	Self-healable hyaluronic acid/chitosan polyelectrolyte complex hydrogels and multilayers. <i>European Polymer Journal</i> , 2019 , 120, 109268	5.2	26
153	Kinetic, thermal, structural and degradation studies on the effect of meta-substituted aromatic-aliphatic polyesters built through ring-opening polymerisation. <i>Polymer Degradation and Stability</i> , 2019 , 169, 108984	4.7	2
152	Development of multiactive antibacterial multilayers of hyaluronic acid and chitosan onto poly(ethylene terephthalate). <i>European Polymer Journal</i> , 2019 , 112, 31-37	5.2	21
151	Hydrogel-based magnetoelectric microenvironments for tissue stimulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 1041-1047	6	30
150	Optimized silk fibroin piezoresistive nanocomposites for pressure sensing applications based on natural polymers. <i>Nanoscale Advances</i> , 2019 , 1, 2284-2292	5.1	19
149	TiO-Doped Electrospun Nanofibrous Membrane for Photocatalytic Water Treatment. <i>Polymers</i> , 2019 , 11,	4.5	30
148	Synthesis and Characterization of Covalently Crosslinked pH-Responsive Hyaluronic Acid Nanogels: Effect of Synthesis Parameters. <i>Polymers</i> , 2019 , 11,	4.5	15
147	Toward superior applications of thermoplastic elastomer blends: double Tg increase and improved ductility. <i>Polymer International</i> , 2019 , 68, 1130-1139	3.3	4
146	Hydrolysis of poly(l-lactide)/ZnO nanocomposites with antimicrobial activity. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47786	2.9	4
145	Thermostructural Behavior in a Series of Lanthanide-Containing Polyoxotungstate Hybrids with Copper(II) Complexes of the Tetraazamacrocyclic Cyclam: A Single-Crystal-to-Single-Crystal Transformation Study. <i>Inorganic Chemistry</i> , 2019 , 58, 4365-4375	5.1	5
144	Chitosan nanogels as nanocarriers of polyoxometalates for breast cancer therapies. <i>Carbohydrate Polymers</i> , 2019 , 213, 159-167	10.3	33
143	PCO-LLDPE thermoresponsive shape memory blends. Towards a new generation of breathable and waterproof smart membranes. <i>European Polymer Journal</i> , 2019 , 119, 469-476	5.2	8
142	Silk Fibroin Bending Actuators as an Approach Toward Natural Polymer Based Active Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30197-30206	9.5	25
141	Toward Advanced Functional Systems: Honeycomb-Like Polymeric Surfaces Incorporating Polyoxovanadates with Surface-Appended Copper-Cyclam Complexes. <i>Molecules</i> , 2019 , 24,	4.8	2

140	Characterization and Optimization of the Alkaline Hydrolysis of Polyacrylonitrile Membranes. <i>Polymers</i> , 2019 , 11,	4.5	22
139	THERMO-ACTIVE SHAPE MEMORY MULTI-LAYER PAPERBOARD PACKAGING. <i>Dyna (Spain)</i> , 2019 , 94, 384-389	0.4	
138	Impact of ZnO nanoparticle morphology on relaxation and transport properties of PLA nanocomposites. <i>Polymer Testing</i> , 2019 , 75, 175-184	4.5	18
137	Antibacterial hyaluronic acid/chitosan multilayers onto smooth and micropatterned titanium surfaces. <i>Carbohydrate Polymers</i> , 2019 , 207, 824-833	10.3	34
136	Improved response of ionic liquid-based bending actuators by tailored interaction with the polar fluorinated polymer matrix. <i>Electrochimica Acta</i> , 2019 , 296, 598-607	6.7	38
135	Antibacterial multilayer of chitosan and (2-carboxyethyl)- β -cyclodextrin onto polylactic acid (PLLA). <i>Food Hydrocolloids</i> , 2019 , 88, 228-236	10.6	32
134	Novel shape-memory polyurethane fibers for textile applications. <i>Textile Research Journal</i> , 2019 , 89, 1027-1037	10.3	24
133	Plasma poly(acrylic acid) compatibilized hydroxyapatite-poly lactide biocomposites for their use as body-absorbable osteosynthesis devices. <i>Composites Science and Technology</i> , 2018 , 161, 66-73	8.6	15
132	MonoRes: Automatic and Accurate Estimation of Local Resolution for Electron Microscopy Maps. <i>Structure</i> , 2018 , 26, 337-344.e4	5.2	109
131	Silk fibroin-magnetic hybrid composite electrospun fibers for tissue engineering applications. <i>Composites Part B: Engineering</i> , 2018 , 141, 70-75	10	68
130	Thickness effect on the generation of temperature and curing degree gradients in epoxy/amine thermoset systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 132, 1867-1881	4.1	6
129	Metal Nanoparticles Embedded in Cellulose Nanocrystal Based Films: Material Properties and Post-use Analysis. <i>Biomacromolecules</i> , 2018 , 19, 2618-2628	6.9	44
128	Influence of the soft segment nature on the thermomechanical behavior of shape memory polyurethanes. <i>Polymer Engineering and Science</i> , 2018 , 58, 238-244	2.3	23
127	Thermal, optical and structural properties of blocks and blends of PLA and P2HEB. <i>Green Materials</i> , 2018 , 6, 85-96	3.2	7
126	Tailored Biodegradable and Electroactive Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Based Morphologies for Tissue Engineering Applications. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	15
125	Formulation of Carbopol/Poly(2-ethyl-2-oxazoline)s Mucoadhesive Tablets for Buccal Delivery of Hydrocortisone. <i>Polymers</i> , 2018 , 10,	4.5	15
124	Immobilization of Polyoxometalates on Tailored Polymeric Surfaces. <i>Nanomaterials</i> , 2018 , 8,	5.4	4
123	Determining the Deacetylation Degree of Chitosan: Opportunities To Learn Instrumental Techniques. <i>Journal of Chemical Education</i> , 2018 , 95, 1022-1028	2.4	27

122	Optimized Magnetodielectric Coupling on High-Temperature Polymer-Based Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1821-1827	3.8	5
121	Relation between fiber orientation and mechanical properties of nano-engineered poly(vinylidene fluoride) electrospun composite fiber mats. <i>Composites Part B: Engineering</i> , 2018 , 139, 146-154	10	42
120	Effect of the blend ratio on the shape memory and self-healing behaviour of ionomer-polycyclooctene crosslinked polymer blends. <i>European Polymer Journal</i> , 2018 , 98, 154-161	5.2	31
119	Effect of Different Types of Electrospun Polyamide 6 Nanofibres on the Mechanical Properties of Carbon Fibre/Epoxy Composites. <i>Polymers</i> , 2018 , 10,	4.5	12
118	Advances in image processing for single-particle analysis by electron cryomicroscopy and challenges ahead. <i>Current Opinion in Structural Biology</i> , 2018 , 52, 127-145	8.1	7
117	Evaluation of postcuring process on the thermal and mechanical properties of the Clear02 resin used in stereolithography. <i>Polymer Testing</i> , 2018 , 72, 115-121	4.5	15
116	On the use of surfactants for improving nanofiller dispersion and piezoresistive response in stretchable polymer composites. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10580-10588	7.1	18
115	Chiroptical luminescent nanostructured cellulose films. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 979-987	7.8	35
114	Tuneable hydrolytic degradation of poly(l-lactide) scaffolds triggered by ZnO nanoparticles. <i>Materials Science and Engineering C</i> , 2017 , 75, 714-720	8.3	13
113	Interference lithography with functional block copolymer blends: Hierarchical structuration and anisotropic wetting. <i>European Polymer Journal</i> , 2017 , 90, 25-36	5.2	
112	Nanopatterned polystyrene-b-poly(acrylic acid) surfaces to modulate cell-material interaction. <i>Materials Science and Engineering C</i> , 2017 , 75, 229-236	8.3	4
111	Membranes based on polymer miscibility for selective transport and separation of metallic ions. <i>Journal of Hazardous Materials</i> , 2017 , 336, 188-194	12.8	24
110	Thermal, structural and degradation properties of an aromatic ω -aliphatic polyester built through ring-opening polymerisation. <i>Polymer Chemistry</i> , 2017 , 8, 3530-3538	4.9	37
109	Free-volume effects on the thermomechanical performance of epoxy β SiO ₂ nanocomposites. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45216	2.9	12
108	Thermal stability increase in metallic nanoparticles-loaded cellulose nanocrystal nanocomposites. <i>Carbohydrate Polymers</i> , 2017 , 171, 193-201	10.3	35
107	Active release coating of multilayer assembled branched and ionic β -cyclodextrins onto poly(ethylene terephthalate). <i>Carbohydrate Polymers</i> , 2017 , 174, 65-71	10.3	6
106	Development of new remediation technologies for contaminated soils based on the application of zero-valent iron nanoparticles and bioremediation with compost. <i>Resource-efficient Technologies</i> , 2017 , 3, 166-176	2	45
105	Light and gas barrier properties of PLLA/metallic nanoparticles composite films. <i>European Polymer Journal</i> , 2017 , 91, 10-20	5.2	43

104	In situ measurements of free volume during recovery process of a shape memory polymer. <i>Polymer</i> , 2017 , 109, 66-70	3.9	9
103	U-Shaped and Surface Functionalized Polymer Optical Fiber Probe for Glucose Detection. <i>Sensors</i> , 2017 , 18,	3.8	19
102	Chiroptical, morphological and conducting properties of chiral nematic mesoporous cellulose/polypyrrole composite films. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19184-19194	13	57
101	Thermally-Triggered Crystal Dynamics and Permanent Porosity in the First Heptatungstate-Metalorganic Three-Dimensional Hybrid Framework. <i>Chemistry - A European Journal</i> , 2017 , 23, 14962-14974	4.8	9
100	Energy Harvesting 2017 , 225-253		2
99	Magnetic cellulose nanocrystal nanocomposites for the development of green functional materials. <i>Carbohydrate Polymers</i> , 2017 , 175, 425-432	10.3	29
98	On the Relevance of the Polar β Phase of Poly(vinylidene fluoride) for High Performance Lithium-Ion Battery Separators. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26216-26225	3.8	38
97	Branched and ionic β Cyclodextrins multilayer assembling onto polyacrylonitrile membranes for removal and controlled release of triclosan. <i>Carbohydrate Polymers</i> , 2017 , 156, 143-151	10.3	22
96	Effects of Graphene Oxide and Chemically-Reduced Graphene Oxide on the Dynamic Mechanical Properties of Epoxy Amine Composites. <i>Polymers</i> , 2017 , 9,	4.5	40
95	Synthesis and characterization of near-infrared fluorescent and magnetic iron zero-valent nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 315, 1-7	4.7	5
94	Understanding nucleation of the electroactive β phase of poly(vinylidene fluoride) by nanostructures. <i>RSC Advances</i> , 2016 , 6, 113007-113015	3.7	57
93	Methylene diphenyl diisocyanate (MDI) and toluene diisocyanate (TDI) based polyurethanes: thermal, shape-memory and mechanical behavior. <i>RSC Advances</i> , 2016 , 6, 69094-69102	3.7	30
92	Polysaccharide polyelectrolyte multilayer coating on poly(ethylene terephthalate). <i>Polymer International</i> , 2016 , 65, 915-920	3.3	11
91	Poly(L-lactide)/zno nanocomposites as efficient UV-shielding coatings for packaging applications. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	43
90	PLLA-grafted cellulose nanocrystals: Role of the CNC content and grafting on the PLA bionanocomposite film properties. <i>Carbohydrate Polymers</i> , 2016 , 142, 105-13	10.3	128
89	Three-dimensional orientation of poly(L-lactide) crystals under uniaxial drawing. <i>RSC Advances</i> , 2016 , 6, 11943-11951	3.7	18
88	Poly(L-lactide)/branched β cyclodextrin blends: Thermal, morphological and mechanical properties. <i>Carbohydrate Polymers</i> , 2016 , 144, 25-32	10.3	12
87	Construction of antibacterial poly(ethylene terephthalate) films via layer by layer assembly of chitosan and hyaluronic acid. <i>Carbohydrate Polymers</i> , 2016 , 143, 35-43	10.3	56

86	Preparation and characterization of soluble branched ionic cyclodextrins and their inclusion complexes with triclosan. <i>Carbohydrate Polymers</i> , 2016 , 142, 149-57	10.3	20
85	Development of poly(vinylidene fluoride)/ionic liquid electrospun fibers for tissue engineering applications. <i>Journal of Materials Science</i> , 2016 , 51, 4442-4450	4.3	40
84	Towards the development of eco-friendly disposable polymers: ZnO-initiated thermal and hydrolytic degradation in poly(L-lactide)/ZnO nanocomposites. <i>RSC Advances</i> , 2016 , 6, 15660-15669	3.7	23
83	Increased functional properties and thermal stability of flexible cellulose nanocrystal/ZnO films. <i>Carbohydrate Polymers</i> , 2016 , 136, 250-8	10.3	66
82	Physical aging and mechanical performance of poly(L-lactide)/ZnO nanocomposites. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	27
81	Solvent and relative humidity effect on highly ordered polystyrene honeycomb patterns analyzed by Voronoi tessellation. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	5
80	Cu-coated cellulose nanopaper for green and low-cost electronics. <i>Cellulose</i> , 2016 , 23, 1997-2010	5.5	35
79	PLLA/ZnO nanocomposites: Dynamic surfaces to harness cell differentiation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 144, 152-160	6	20
78	Effect of coating on the environmental applications of zero valent iron nanoparticles: the lindane case. <i>Science of the Total Environment</i> , 2016 , 565, 795-803	10.2	26
77	A Robust Open Framework Formed by Decavanadate Clusters and Copper(II) Complexes of Macrocyclic Polyamines: Permanent Microporosity and Catalytic Oxidation of Cycloalkanes. <i>Inorganic Chemistry</i> , 2016 , 55, 4970-9	5.1	37
76	Grafting of Cellulose Nanocrystals 2016 , 61-113		14
75	Effect of cyano dipolar groups on the performance of lithium-ion battery electrospun polyimide gel electrolyte membranes. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 778, 57-65	4.1	15
74	Sequential single-crystal-to-single-crystal transformations promoted by gradual thermal dehydration in a porous metavanadate hybrid. <i>CrystEngComm</i> , 2015 , 17, 8915-8925	3.3	12
73	Influence of N-alkyl and Substitutions on the thermal behaviour of H-bonded interpolymer complexes based on polymers with acrylamide or lactame groups and poly(4-vinylphenol). <i>Thermochimica Acta</i> , 2015 , 614, 191-198	2.9	2
72	Enhanced charge-transfer emission in polyimides by cyano-groups doping. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5685-92	3.4	6
71	Development of magnetoelectric CoFe ₂ O ₄ /poly(vinylidene fluoride) microspheres. <i>RSC Advances</i> , 2015 , 5, 35852-35857	3.7	69
70	Effect of ionic liquid anion and cation on the physico-chemical properties of poly(vinylidene fluoride)/ionic liquid blends. <i>European Polymer Journal</i> , 2015 , 71, 304-313	5.2	63
69	Connecting free volume with shape memory properties in noncytotoxic gamma-irradiated polycyclooctene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1080-1088	2.6	9

68	Polymeric Shape-Memory Micro-Patterned Surface for Switching Wettability with Temperature. <i>Polymers</i> , 2015 , 7, 1674-1688	4.5	19
67	Dielectric relaxation dynamics of high-temperature piezoelectric polyimide copolymers. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 731-743	2.6	12
66	Crystallization, structural relaxation and thermal degradation in Poly(L-lactide)/cellulose nanocrystal renewable nanocomposites. <i>Carbohydrate Polymers</i> , 2015 , 123, 256-65	10.3	117
65	Study of the chain microstructure effects on the resulting thermal properties of poly(L-lactide)/poly(N-isopropylacrylamide) biomedical materials. <i>Materials Science and Engineering C</i> , 2015 , 50, 97-106	8.3	24
64	Influence of β -methyl substitutions on interpolymer complexes formation between poly(meth)acrylic acids and poly(N-isopropyl(meth)acrylamide)s. <i>Colloid and Polymer Science</i> , 2015 , 293, 1447-1455	2.4	10
63	Radio Frequency Magnetoelectric Effect Measured at High Temperature. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	5
62	High-temperature polymer based magnetoelectric nanocomposites. <i>European Polymer Journal</i> , 2015 , 64, 224-228	5.2	17
61	Synthesis and characterization of novel piezoelectric nitrile copolyimide films for high temperature sensor applications. <i>Smart Materials and Structures</i> , 2014 , 23, 105015	3.4	10
60	Thermal behaviour of H-bonded interpolymer complexes based on polymers with acrylamide or lactame groups and poly(acrylic acid): Influence of N-alkyl and β -methyl substitutions. <i>Polymer Degradation and Stability</i> , 2014 , 109, 147-153	4.7	11
59	Synthesis and Characterization of New Thiophene-Derived Polymers. <i>Advances in Polymer Technology</i> , 2014 , 33, n/a-n/a	1.9	1
58	Shape memory effect for recovering surface damages on polymer substrates. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	18
57	Study of the effect of gamma irradiation on a commercial polycyclooctene I. Thermal and mechanical properties. <i>Radiation Physics and Chemistry</i> , 2014 , 102, 108-116	2.5	14
56	Pesticides microencapsulation. A safe and sustainable industrial process. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1077-1085	3.5	20
55	Impact Damping in NiMnGa/Polymer Composites. <i>Materials Transactions</i> , 2014 , 55, 629-632	1.3	6
54	Studying the Thermal Degradation of Different Polyacenaphthylenes via Thermogravimetric Analysis Combined With Fourier Transform Infrared Spectroscopy (TGA-FTIR). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014 , 51, 718-728	2.2	2
53	Improving the Processability of Conductive Polymers: The Case of Polyaniline. <i>Advances in Polymer Technology</i> , 2013 , 32, E180-E188	1.9	13
52	Reversible functionalization of nanostructured polymer surfaces via stimuli-responsive interpolymer complexes. <i>European Polymer Journal</i> , 2013 , 49, 130-138	5.2	5
51	Improving the Magnetoelectric Response of Laminates Containing High Temperature Piezopolymers. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 42-45	2	11

50	Relevance study of bare and coated zero valent iron nanoparticles for lindane degradation from its by-product monitorization. <i>Chemosphere</i> , 2013 , 93, 1324-32	8.4	40
49	Air-stable Fe@Au nanoparticles synthesized by the microemulsion methods. <i>Journal of the Korean Physical Society</i> , 2013 , 62, 1376-1381	0.6	4
48	Phase-structure and mechanical properties of isothermally melt-and cold-crystallized poly (L-lactide). <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 17, 242-51	4.1	59
47	New Polyurethane-based magnetostrictive composites: Dynamical mechanical properties. <i>Polymer Engineering and Science</i> , 2013 , 53, 744-751	2.3	4
46	Evidence for the absence of enzymatic reactions in the glassy state. A case study of xanthophyll cycle pigments in the desiccation-tolerant moss <i>Syntrichia ruralis</i> . <i>Journal of Experimental Botany</i> , 2013 , 64, 3033-43	7	66
45	Improving the Performance of High Temperature Piezopolymers for Magnetoelectric Applications. <i>Key Engineering Materials</i> , 2013 , 543, 439-442	0.4	7
44	Nonylphenol polyethoxylate coated body-center-cubic iron nanocrystals for ferrofluids with technical applications. <i>Journal of Applied Physics</i> , 2013 , 113, 17B505	2.5	10
43	Resonant Response of Magnetostrictive/New Piezoelectric Polymer Magnetoelectric Laminate. <i>Sensor Letters</i> , 2013 , 11, 134-137	0.9	5
42	Nano- and microstructural effects on thermal properties of poly (l-lactide)/multi-wall carbon nanotube composites. <i>Polymer</i> , 2012 , 53, 2412-2421	3.9	67
41	Triple-shape memory effect of covalently crosslinked polyalkenamer based semicrystalline polymer blends. <i>Soft Matter</i> , 2012 , 8, 4928	3.6	65
40	Physical Aging in Poly(L-lactide) and its Multi-Wall Carbon Nanotube Nanocomposites. <i>Macromolecular Symposia</i> , 2012 , 321-322, 118-123	0.8	15
39	Advantages of biocides: Cyclodextrin inclusion complexes against active components for pesticide industry. <i>International Journal of Environmental Analytical Chemistry</i> , 2012 , 92, 963-978	1.8	5
38	Shape memory composites based on glass-fibre-reinforced poly(ethylene)-like polymers. <i>Smart Materials and Structures</i> , 2012 , 21, 035004	3.4	18
37	Biocompatible poly(L-lactide)/MWCNT nanocomposites: morphological characterization, electrical properties, and stem cell interaction. <i>Macromolecular Bioscience</i> , 2012 , 12, 870-81	5.5	44
36	Electric modulus and polarization studies on piezoelectric polyimides. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 67-76	2.9	8
35	Temperature Response of Magnetostrictive/Piezoelectric Polymer Magnetoelectric Laminates. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1398, 15		6
34	ROMP of Functionalized Cyclooctene and Norbornene Derivatives and their Copolymerization with Cyclooctene. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2011 , 48, 211-218	2.2	9
33	Development and characterization of semi-crystalline polyalkenamer based shape memory polymers. <i>Smart Materials and Structures</i> , 2011 , 20, 035003	3.4	12

32	Temperature Response of Magnetostrictive/Piezoelectric Polymer Magnetoelectric Laminates. <i>Key Engineering Materials</i> , 2011 , 495, 351-354	0.4	13
31	Synthesis of gold-coated iron oxide nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 1233-1235	3.9	22
30	Catalytic performance of the high and low temperature polymorphs of (C ₆ N ₂ H ₁₆) _{0.5} [(VO)(HAsO ₄)F]: structural, thermal, spectroscopic and magnetic studies. <i>Dalton Transactions</i> , 2010 , 39, 834-46	4.3	11
29	Ring-Opening Metathesis Polymerization Kinetics of Cyclooctene with Second Generation Grubbs' Catalyst. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010 , 47, 1130-1134	2.2	13
28	Effect of Reprocessing and Accelerated Weathering on ABS Properties. <i>Journal of Polymers and the Environment</i> , 2010 , 18, 71-78	4.5	40
27	Synthesis of poly(cyclooctene) by ring-opening metathesis polymerization: Characterization and shape memory properties. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 2440-2447	2.9	25
26	Effect of reprocessing and accelerated ageing on thermal and mechanical polycarbonate properties. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 727-733	5.3	45
25	Reutilization of thermostable polyester wastes by means of agglomeration with phenolic resins. <i>Waste Management</i> , 2010 , 30, 2305-11	8.6	4
24	pH responsive surfaces with nanoscale topography. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2982-2990	2.5	23
23	Frozen Polarization of Piezoelectric Polyimides. <i>Ferroelectrics</i> , 2009 , 389, 114-121	0.6	5
22	Poly(styrene-co-vinylbenzylchloride-co-divinylbenzene) coated iron oxide: Synthesis and effects on size and morphology. <i>Journal of Applied Physics</i> , 2009 , 105, 07B318	2.5	1
21	Synthesis, characterization, and thermal properties of piezoelectric polyimides. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 722-730	2.5	44
20	New elastomer/ferrofenol-D magnetostrictive composites. <i>Sensors and Actuators A: Physical</i> , 2009 , 149, 251-254	3.9	22
19	Magneto-active shape memory composites by incorporating ferromagnetic microparticles in a thermo-responsive polyalkenamer. <i>Smart Materials and Structures</i> , 2009 , 18, 075003	3.4	44
18	Dielectric Properties of Piezoelectric Polyimides. <i>Ferroelectrics</i> , 2008 , 370, 3-10	0.6	5
17	Photophysical characterization of new 3-amino and 3-acetamido BODIPY dyes with solvent sensitive properties. <i>Journal of Fluorescence</i> , 2008 , 18, 899-907	2.4	16
16	Thermal properties and fire behaviour of materials produced from curing mixed epoxy and phenolic resins. <i>Fire and Materials</i> , 2008 , 32, 281-292	1.8	14
15	Influence of fillers on the properties of a phenolic resin cured in acidic medium. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 387-392	2.9	10

14	High magnetostriction polymer-bonded Terfenol-D composites. <i>Sensors and Actuators A: Physical</i> , 2008 , 142, 538-541	3.9	19
13	Polyalkene-based shape-memory polymers 2007 ,		3
12	Thermal Degradation of Copolymers of N-Vinylcarbazole with Acrylic and Methacrylic Monomers. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006 , 43, 1029-1041	2.2	2
11	Analysis of the crosslinking process of epoxy-phenolic mixtures by thermal scanning rheometry. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 818-824	2.9	24
10	Dynamic mechanical properties of epoxy-phenolic mixtures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 1548-1555	2.6	8
9	Effects of phenolic resin pyrolysis conditions on carbon membrane performance for gas separation. <i>Journal of Membrane Science</i> , 2004 , 228, 45-54	9.6	102
8	Study of Polymer-Polymer Complexes of Poly(N-Isopropylacrylamide) with Hydroxyl-Containing Polymers. <i>Journal of Macromolecular Science - Physics</i> , 2004 , 43, 437-446	1.4	9
7	Determination of the rheological behavior of epoxy-amine thermosets by dynamic mechanical analysis: Isothermal methods versus nonisothermal methods. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 1965-1977	2.6	5
6	Analysis of the crosslinking process of a phenolic resin by thermal scanning rheometry. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 57-65	2.9	25
5	Thermal properties of copolymers of N-vinylcarbazole with acrylic and methacrylic monomers. <i>Journal of Macromolecular Science - Physics</i> , 2002 , 41, 241-253	1.4	5
4	Unsaturated polyester resins cure: Kinetic, rheologic, and mechanical-dynamical analysis. I. Cure kinetics by DSC and TSR. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 447-457	2.9	42
3	Unsaturated polyester resins cure: Kinetic, rheologic, and mechanical dynamical analysis. II. The glass transition in the mechanical dynamical spectrum of polyester networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001 , 39, 146-152	2.6	26
2	Reusable Nanocomposite Membranes for Highly Efficient Arsenite and Arsenate Dual Removal from Water. <i>Advanced Materials Interfaces</i> , 2101419	4.6	2
1	Tuning magnetic response and ionic conductivity of electrospun hybrid membranes for tissue regeneration strategies. <i>Polymers for Advanced Technologies</i> ,	3.2	1