

Seema Agarwal

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.

232
papers

11,257
citations

52
h-index

99
g-index

241
ext. papers

12,596
ext. citations

6.4
avg, IF

7
L-index

#	Paper	IF	Citations
232	Tailor-made compostable polyurethanes. <i>Polymer Chemistry</i> , 2022 , 13, 622-630	4.9	0
231	Poly(Vinyl Alcohol)-Hydrogel Microparticles with Soft Barrier Shell for the Encapsulation of <i>Micrococcus luteus</i> . <i>Macromolecular Bioscience</i> , 2021 , 21, e2000419	5.5	3
230	Plastic Pollution: A Material Problem?. <i>Macromolecules</i> , 2021 , 54, 4455-4469	5.5	30
229	Favorable Antibacterial, Antibiofilm, Antiadhesion to Cells, and Biocompatible Polyurethane by Facile Surface Functionalization.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 4629-4640	4.1	3
228	Antibacterial and Biocompatible Hydrogel Dressing Based on Gelatin- and Castor-Oil-Derived Biocidal Agent. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3633-3647	5.5	6
227	Theoretical and Experimental Study of Monofunctional Vinyl Cyclopropanes Bearing Hydrogen Bond Enabling Side Chains. <i>Macromolecules</i> , 2021 , 54, 11-21	5.5	1
226	Post-Process-Functionalized Catalytic Electrospun and 2D-Printed Structures for Wolfλamb-Type Catalysis. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1349-1357	4.3	0
225	Hierarchically Porous Bio-Based Sustainable Conjugate Sponge for Highly Selective Oil/Organic Solvent Absorption. <i>Advanced Functional Materials</i> , 2021 , 31, 2100640	15.6	13
224	Structural Insights into Polymethacrylamide-Based LCST Polymers in Solution: A Small-Angle Neutron Scattering Study. <i>Macromolecules</i> , 2021 , 54, 7632-7641	5.5	1
223	Alkenyl succinic anhydride modified tree-gum kondagogu: A bio-based material with potential for food packaging. <i>Carbohydrate Polymers</i> , 2021 , 266, 118126	10.3	6
222	Polyurethanes from Hydrophobic Elastic Materials to Hydrogels with Potent Nonleaching Biocidal and Antibiofilm Activity. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 4695-4707	4.3	1
221	Modulation of Transaminase Activity by Encapsulation in Temperature-Sensitive Poly(N-acryloyl glycinamide) Hydrogels. <i>ChemBioChem</i> , 2021 , 22, 3452-3461	3.8	2
220	Sustainable block copolymers of poly(limonene carbonate). <i>Polymer Chemistry</i> , 2021 , 12, 903-910	4.9	2
219	Carboxylated wood-based sponges with underoil superhydrophilicity for deep dehydration of crude oil. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11354-11361	13	22
218	High-density Fibrous Polyimide Sponges with Superior Mechanical and Thermal Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19006-19014	9.5	66
217	Ultralight, Structurally Stable Electrospun Sponges with Tailored Hydrophilicity as a Novel Material Platform. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18002-18011	9.5	13
216	Layering-Triggered Delayering with Exfoliated High-Aspect Ratio Layered Silicate for Enhanced Gas Barrier, Mechanical Properties, and Degradability of Biodegradable Polymers. <i>Global Challenges</i> , 2020 , 4, 2000030	4.3	4

215	Poly(p-xylylene) Nanotubes Decorated with Nonagglomerated Gold Nanoparticles for the Alcoholysis of Dimethylphenylsilane. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2766-2773	5.6	3
214	Biodegradable Polymers: Present Opportunities and Challenges in Providing a Microplastic-Free Environment. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000017	2.6	55
213	Recycling non-food-grade tree gum wastes into nanoporous carbon for sustainable energy harvesting. <i>Green Chemistry</i> , 2020 , 22, 1198-1208	10	19
212	Impact of the Fiber Length Distribution on Porous Sponges Originating from Short Electrospun Fibers Made from Polymer Yarn. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 1900629	3.9	5
211	Unlocking the Processability and Recyclability of Biobased Poly(limonene carbonate). <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6442-6448	8.3	10
210	Breathable and Flexible Polymer Membranes with Mechanoresponsive Electric Resistance. <i>Advanced Functional Materials</i> , 2020 , 30, 1907555	15.6	21
209	Tree Gum Graphene Oxide Nanocomposite Films as Gas Barriers. <i>ACS Applied Nano Materials</i> , 2020 , 3, 633-640	5.6	24
208	Wood-Inspired Anisotropic Cellulose Nanofibril Composite Sponges for Multifunctional Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35513-35522	9.5	77
207	Perfusion Cultivation of Artificial Liver Extracellular Matrix in Fibrous Polymer Sponges Biomimicking Scaffolds for Tissue Engineering. <i>Biomacromolecules</i> , 2020 , 21, 4094-4104	6.9	3
206	Synthesis of Biobased Polycarbonate by Copolymerization of Menth-2-ene Oxide and CO ₂ with Exceptional Thermal Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14690-14693	8.3	16
205	Synthesis and properties evaluation of quaternized polyurethanes as antibacterial adhesives. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 752-757	2.5	4
204	Anisotropic microfibrils of a liquid-crystalline diketopyrrolopyrrole by self-assembly-assisted electrospinning. <i>Nanoscale Horizons</i> , 2019 , 4, 169-174	10.8	8
203	Amphiphilic iron(II) spin crossover coordination polymers: crystal structures and phase transition properties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1151-1163	7.1	19
202	Nanofibrous Structures 2019 , 93-122		5
201	Mesostructured Nonwovens with Penguin Downy Feather-Like Morphology Top-Down Combined with Bottom-Up. <i>Advanced Functional Materials</i> , 2019 , 29, 1903166	15.6	13
200	Delignified wood with unprecedented anti-oil properties for the highly efficient separation of crude oil/water mixtures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16735-16741	13	42
199	Wolf-Lamb-type Catalysis in One Pot Using Electrospun Polymeric Catalyst Membranes. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1900148	4.8	4
198	Millisecond Response of Shape Memory Polymer Nanocomposite Aerogel Powered by Stretchable Graphene Framework. <i>ACS Nano</i> , 2019 , 13, 5549-5558	16.7	39

197	Gradient-Structured Nonflammable Flexible Polymer Membranes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11876-11883	9.5	4
196	Filter-Through Method of Making Highly Efficient Polymer-Clay Nanocomposite Membranes. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800779	3.9	7
195	Precise 2D-Patterned Incompatible Catalysts for Reactions in One-Pot. <i>Chemistry - A European Journal</i> , 2019 , 25, 13640-13646	4.8	3
194	Generalized and feasible strategy to prepare ultra-porous, low density, compressible carbon nanoparticle sponges. <i>Carbon</i> , 2019 , 154, 363-369	10.4	11
193	Virtually Wall-Less Tubular Sponges as Compartmentalized Reaction Containers. <i>Research</i> , 2019 , 2019, 4152536	7.8	4
192	Bioplastic Fibers from Gum Arabic for Greener Food Wrapping Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5900-5911	8.3	25
191	Electrospun Bacteria-Gold Nanoparticle/Polymer Composite Mesofiber Nonwovens for Catalytic Application. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1900007	2.6	3
190	High strength in combination with high toughness in robust and sustainable polymeric materials. <i>Science</i> , 2019 , 366, 1376-1379	33.3	89
189	Controlled-Release LCST-Type Nonwoven Depots via Squeezing-Out Thermal Response. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800606	3.9	1
188	Interpenetrating thermophobic and thermophilic dual responsive networks. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 539-544	2.5	1
187	Progress in the Field of Water- and/or Temperature-Triggered Polymer Actuators. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800548	3.9	56
186	Redispersible Gold Nanoparticle/Polymer Composite Powders Ready for Ligand Exchange Reactions. <i>ChemNanoMat</i> , 2019 , 5, 181-186	3.5	1
185	Low Density, Thermally Stable, and Intrinsic Flame Retardant Poly(bis(benzimidazo)Benzophenanthroline-dione) Sponge. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700615	3.9	35
184	Composite Polymeric Membranes with Directionally Embedded Fibers for Controlled Dual Actuation. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800082	4.8	39
183	Electrospun nanofiber reinforced composites: a review. <i>Polymer Chemistry</i> , 2018 , 9, 2685-2720	4.9	336
182	Low-Density Self-Assembled Poly(N-Isopropyl Acrylamide) Sponges with Ultrahigh and Extremely Fast Water Uptake and Release. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1700838	4.8	44
181	Spin-Crossover Iron(II) Coordination Polymer with Fluorescent Properties: Correlation between Emission Properties and Spin State. <i>Journal of the American Chemical Society</i> , 2018 , 140, 700-709	16.4	131
180	Combining 3D Printing with Electrospinning for Rapid Response and Enhanced Designability of Hydrogel Actuators. <i>Advanced Functional Materials</i> , 2018 , 28, 1800514	15.6	77

179	Ultraporous, Compressible, Wetttable Polylactide/Polycaprolactone Sponges for Tissue Engineering. <i>Biomacromolecules</i> , 2018 , 19, 1663-1673	6.9	39
178	Let There be Light: Polymeric Micelles with Upper Critical Solution Temperature as Light-Triggered Heat Nanogenerators for Combating Drug-Resistant Cancer. <i>Small</i> , 2018 , 14, e1802420	11	52
177	Tuning the Phase Transition from UCST-Type to LCST-Type by Composition Variation of Polymethacrylamide Polymers. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800640	4.8	16
176	High-Barrier, Biodegradable Food Packaging. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800333	3.3	25
175	pH-Responsive Biohybrid Carrier Material for Phenol Decontamination in Wastewater. <i>Biomacromolecules</i> , 2018 , 19, 3224-3232	6.9	1
174	Tailoring the Morphology of Responsive Bioinspired Bicomponent Fibers. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700248	3.9	22
173	Compaction and Transmembrane Delivery of pDNA: Differences between l-PEI and Two Types of Amphiphilic Block Copolymers. <i>Biomacromolecules</i> , 2017 , 18, 808-818	6.9	17
172	Unlocking Nanocarriers for the Programmed Release of Antimalarial Drugs. <i>Global Challenges</i> , 2017 , 1, 1600011	4.3	7
171	Poly(amino acid)-Based Gel Fibers with pH Responsivity by Coaxial Reactive Electrospinning. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700147	4.8	56
170	Low-Density Open Cellular Sponges as Functional Materials. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15520-15538	16.4	136
169	Biobased Polycarbonate as a Gas Separation Membrane and Breathing Glass For Energy Saving Applications. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700026	6.8	34
168	Self-Rolled Porous Hollow Tubes Made up of Biodegradable Polymers. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1700034	4.8	6
167	Nanofibre preparation of non-processable polymers by solid-state polymerization of molecularly self-assembled monomers. <i>Nanoscale</i> , 2017 , 9, 18169-18174	7.7	12
166	Ultralight, Thermally Insulating, Compressible Polyimide Fiber Assembled Sponges. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32308-32315	9.5	147
165	Exploration of Macroporous Polymeric Sponges As Drug Carriers. <i>Biomacromolecules</i> , 2017 , 18, 3215-3226	6.9	50
164	Exploration of the Electrical Conductivity of Double-Network Silver Nanowires/Polyimide Porous Low-Density Compressible Sponges. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34286-34293	9.5	41
163	Hyperbranched polyesters as biodegradable and antibacterial additives. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6827-6834	7.3	23
162	Fate of So-Called Biodegradable Polymers in Seawater and Freshwater. <i>Global Challenges</i> , 2017 , 1, 1700048	4.8	110

161	Tunable, concentration-independent, sharp, hysteresis-free UCST phase transition from poly(N-acryloyl glycylamide-acrylonitrile) system. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 274-279	2.5	25
160	Dendrons as active clicking tool for generating non-leaching antibacterial materials. <i>Polymer Chemistry</i> , 2016 , 7, 5322-5330	4.9	14
159	Buckling and unraveling Poly(N-isopropyl acrylamide)-Thermoplastic Polyurethane bilayers. <i>Polymer</i> , 2016 , 97, 604-613	3.9	7
158	Ultralight open cell polymer sponges with advanced properties by PPX CVD coating. <i>Polymer Chemistry</i> , 2016 , 7, 2759-2764	4.9	39
157	Quantitative Comparison of the Antimicrobial Efficiency of Leaching versus Nonleaching Polymer Materials. <i>Macromolecular Bioscience</i> , 2016 , 16, 647-54	5.5	24
156	pH dependent thermoresponsive behavior of acrylamide-acrylonitrile UCST-type copolymers in aqueous media. <i>Polymer Chemistry</i> , 2016 , 7, 1979-1986	4.9	28
155	Protection of Vine Plants against Esca Disease by Breathable Electrospun Antifungal Nonwovens. <i>Macromolecular Bioscience</i> , 2016 , 16, 1391-7	5.5	10
154	Structural Exploration of Phantom Oligoguanidine from Asymmetric Diamine and Guanidine Hydrochloride. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 1834-1841	2.6	
153	Synthesis and Enzymatic Degradation of Soft Aliphatic Polyesters. <i>Macromolecular Bioscience</i> , 2016 , 16, 207-13	5.5	13
152	Self-Organization of Gold Nanoparticle Assemblies with 3D Spatial Order and Their External Stimuli Responsiveness. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 215-20	4.8	3
151	Biodegradable aliphatic-aromatic polyester with antibacterial property. <i>Polymer Engineering and Science</i> , 2016 , 56, 1146-1152	2.3	8
150	Assembly of Gold Nanoparticles on Gold Nanorods Using Functionalized Poly(N-isopropylacrylamide) as Polymeric Glue. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 698-702	3.1	16
149	Applied precise Multivariable control theory on shunt dynamic power filter using sliding mode controller 2016 ,		3
148	Giving Direction to Motion and Surface with Ultra-Fast Speed Using Oriented Hydrogel Fibers. <i>Advanced Functional Materials</i> , 2016 , 26, 1021-1027	15.6	96
147	Photo-polymerizable, low shrinking modular construction kit with high efficiency based on vinylcyclopropanes. <i>Polymer Chemistry</i> , 2016 , 7, 3100-3106	4.9	12
146	One-Component Dual Actuation: Poly(NIPAM) Can Actuate to Stable 3D Forms with Reversible Size Change. <i>Advanced Materials</i> , 2016 , 28, 9792-9796	24	53
145	Polyimide Nanofibers by Green Electrospinning via Aqueous Solution for Filtration Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4797-4804	8.3	104
144	Two-in-One Composite Fibers With Side-by-Side Arrangement of Silk Fibroin and Poly(L-lactide) by Electrospinning. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 48-55	3.9	36

143	Thermoresponsive Gold Nanoparticles with Positive UCST-Type Thermoresponsivity. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 460-465	2.6	21
142	Thermally stable optically transparent copolymers of 2-methylene-1,3-dioxepane and N-phenyl maleimide with degradable ester linkages. <i>E-Polymers</i> , 2015 , 15, 217-226	2.7	16
141	Reversible gold nanorod alignment in mechano-responsive elastomers. <i>Polymer</i> , 2015 , 66, 167-172	3.9	16
140	Thermophilic films and fibers from photo cross-linkable UCST-type polymers. <i>Polymer Chemistry</i> , 2015 , 6, 2769-2776	4.9	37
139	Living Composites of Bacteria and Polymers as Biomimetic Films for Metal Sequestration and Bioremediation. <i>Macromolecular Bioscience</i> , 2015 , 15, 1052-9	5.5	20
138	Ultralight, Soft Polymer Sponges by Self-Assembly of Short Electrospun Fibers in Colloidal Dispersions. <i>Advanced Functional Materials</i> , 2015 , 25, 2850-2856	15.6	134
137	Antibacterial 45S5 Bioglass \square -based scaffolds reinforced with genipin cross-linked gelatin for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3367-3378	7.3	42
136	Designed enzymatically degradable amphiphilic conetworks by radical ring-opening polymerization. <i>Polymer Chemistry</i> , 2015 , 6, 6409-6415	4.9	16
135	LCST and UCST in One: Double Thermoresponsive Behavior of Block Copolymers of Poly(ethylene glycol) and Poly(acrylamide-co-acrylonitrile). <i>Langmuir</i> , 2015 , 31, 8940-6	4	62
134	Enzymatically Degradable Polyester-Based Adhesives. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 971-977	5.5	20
133	Preparing a pseudo-solid by the reinforcement of a polydentate thioether using silver nanoparticles. <i>Nanoscale</i> , 2015 , 7, 1977-83	7.7	7
132	Polymer/Nanoparticle Hybrid Materials of Precise Dimensions by Size-Exclusive Fishing of Metal Nanoparticles. <i>Advanced Materials</i> , 2015 , 27, 3888-93	24	15
131	Polymer Cages as Universal Tools for the Precise Bottom-Up Synthesis of Metal Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14539-44	16.4	11
130	Large Multipurpose Exceptionally Conductive Polymer Sponges Obtained by Efficient Wet-Chemical Metallization. <i>Advanced Functional Materials</i> , 2015 , 25, 6182-6188	15.6	26
129	Unusual and Superfast Temperature-Triggered Actuators. <i>Advanced Materials</i> , 2015 , 27, 4865-70	24	200
128	Renaissance for low shrinking resins: all-in-one solution by bi-functional vinylcyclopropane-amides. <i>Chemical Communications</i> , 2015 , 51, 11899-902	5.8	20
127	Low volume shrinkage of polymers by photopolymerization of 1,1-bis(ethoxycarbonyl)-2-vinylcyclopropanes. <i>Polymer Chemistry</i> , 2015 , 6, 2297-2304	4.9	30
126	Importance of compositional homogeneity of macromolecular chains for UCST-type transitions in water: Controlled versus conventional radical polymerization. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 1878-1884	2.5	32

125	A Non-ionic Thermophilic Hydrogel with Positive Thermosensitivity in Water and Electrolyte Solution. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 1466-1472	2.6	25
124	Oligomeric dual functional antibacterial polycaprolactone. <i>Polymer Chemistry</i> , 2014 , 5, 2453	4.9	25
123	Functional 2-methylene-1,3-dioxepane terpolymer: a versatile platform to construct biodegradable polymeric prodrugs for intracellular drug delivery. <i>Polymer Chemistry</i> , 2014 , 5, 4061-4068	4.9	20
122	Blocked bacteria escape by ATRP grafting of a PMMA shell on PVA microparticles. <i>Macromolecular Bioscience</i> , 2014 , 14, 537-45	5.5	12
121	Highly flexible and tough concentric triaxial polystyrene fibers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5918-23	9.5	86
120	Design of Soft Materials from Liquid Triblock Co-Oligomers and Metal Nanoparticles. <i>Chemistry of Materials</i> , 2014 , 26, 4805-4811	9.6	2
119	Tea-bag-like polymer nanoreactors filled with gold nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4972-5	16.4	45
118	Template Assisted Change in Morphology from Particles to Nanofibers by Side-by-Side Electrospinning of Block Copolymers. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 1298-1305	3.9	12
117	Solvent-Free Aqueous Dispersions of Block Copolyesters for Electrospinning of Biodegradable Nonwoven Mats for Biomedical Applications. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 1445-1454	3.9	7
116	One-Step Preparation of Reduction-Responsive Biodegradable Polymers as Efficient Intracellular Drug Delivery Platforms. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 1848-1854	2.6	15
115	A rare example of the formation of polystyrene-grafted aliphatic polyester in one-pot by radical polymerization. <i>Chemistry - A European Journal</i> , 2014 , 20, 7419-28	4.8	3
114	Ultrasound-mediated synthesis of high-molecular weight polystyrene-grafted silver nanoparticles by facile ligand exchange reactions in suspension. <i>Small</i> , 2014 , 10, 201-8	11	10
113	Chameleon Nonwovens by Green Electrospinning. <i>Advanced Functional Materials</i> , 2013 , 23, 3156-3163	15.6	24
112	Short nylon-6 nanofiber reinforced transparent and high modulus thermoplastic polymeric composites. <i>Composites Science and Technology</i> , 2013 , 87, 164-169	8.6	53
111	Short electrospun polymeric nanofibers reinforced polyimide nanocomposites. <i>Composites Science and Technology</i> , 2013 , 88, 57-61	8.6	69
110	Tenside-Free Biodegradable Polymer Nanofiber Nonwovens by Green Electrospinning. <i>Macromolecules</i> , 2013 , 46, 7034-7042	5.5	19
109	Polymers with Upper Critical Solution Temperature in Aqueous Solution: Unexpected Properties from Known Building Blocks.. <i>ACS Macro Letters</i> , 2013 , 2, 597-600	6.6	151
108	Atom transfer radical polymerization as a tool for making poly(N-acryloylglycinamide) with molar mass independent UCST-type transitions in water and electrolytes. <i>Polymer Chemistry</i> , 2013 , 4, 3123	4.9	29

107	Exploring suitable oligoamines for phantom ring-closing condensation polymerization with guanidine hydrochloride. <i>Polymer Chemistry</i> , 2013 , 4, 707-716	4.9	5
106	Degradable and biocompatible poly(N,N-dimethylaminoethyl methacrylate-co-caprolactone)s as DNA transfection agents. <i>Macromolecular Bioscience</i> , 2013 , 13, 1267-75	5.5	13
105	Effect of guanidinylation on the properties of poly(2-aminoethylmethacrylate)-based antibacterial materials. <i>Macromolecular Bioscience</i> , 2013 , 13, 242-55	5.5	32
104	Functional materials by electrospinning of polymers. <i>Progress in Polymer Science</i> , 2013 , 38, 963-991	29.6	653
103	Controlled antibody/(bio-) conjugation of inorganic nanoparticles for targeted delivery. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 677-88	18.5	155
102	Smart secondary polyurethane dispersions. <i>Polymer International</i> , 2013 , 62, 1750-1757	3.3	9
101	Vinyl-functionalized gold nanoparticles as artificial monomers for the free radical copolymerization with methyl methacrylate. <i>Polymer</i> , 2012 , 53, 1632-1639	3.9	8
100	Closing one of the last gaps in polyionene compositions: alkyloxyethylammonium ionenes as fast-acting biocides. <i>Macromolecular Bioscience</i> , 2012 , 12, 341-9	5.5	25
99	Biocompatible and degradable poly(2-hydroxyethyl methacrylate) based polymers for biomedical applications. <i>Polymer Chemistry</i> , 2012 , 3, 2752	4.9	47
98	Design and biophysical characterization of bioresponsive degradable poly(dimethylaminoethyl methacrylate) based polymers for in vitro DNA transfection. <i>Biomacromolecules</i> , 2012 , 13, 313-22	6.9	40
97	Novel amphiphilic, biodegradable, biocompatible, cross-linkable copolymers: synthesis, characterization and drug delivery applications. <i>Polymer Chemistry</i> , 2012 , 3, 2785	4.9	34
96	Ultra-long palladium nanoworms by polymer grafts. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	2
95	A fast degrading odd-odd aliphatic polyester-5,7 made by condensation polymerization for biomedical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 1539-51	3.5	6
94	Tough and transparent nylon-6 electrospun nanofiber reinforced melamine-formaldehyde composites. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2597-603	9.5	81
93	Water-stable all-biodegradable microparticles in nanofibers by electrospinning of aqueous dispersions for biotechnical plant protection. <i>Biomacromolecules</i> , 2012 , 13, 439-44	6.9	33
92	Novel layer-by-layer procedure for making nylon-6 nanofiber reinforced high strength, tough, and transparent thermoplastic polyurethane composites. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4366-72	9.5	52
91	Thermo-switchable antibacterial activity. <i>Macromolecular Bioscience</i> , 2012 , 12, 1401-12	5.5	10
90	Antimicrobial hydantoin-grafted poly(ϵ -caprolactone) by ring-opening polymerization and click chemistry. <i>Macromolecular Bioscience</i> , 2012 , 12, 1721-30	5.5	19

89	Polymers with upper critical solution temperature in aqueous solution. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1898-920	4.8	403
88	Controlled radical polymerization of N-acryloylglycinamide and UCST-type phase transition of the polymers. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 4920-4928	2.5	54
87	First Example of a Universal and Cost-Effective Approach: Polymers with Tunable Upper Critical Solution Temperature in Water and Electrolyte Solution. <i>Macromolecules</i> , 2012 , 45, 3910-3918	5.5	209
86	PDMAEMA based gene delivery materials. <i>Materials Today</i> , 2012 , 15, 388-393	21.8	218
85	Functionalisation of PLLA nanofiber scaffolds using a possible cooperative effect between collagen type I and BMP-2: impact on colonization and bone formation in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 2227-33	4.5	17
84	Design and proof of reversible micelle-to-vesicle multistimuli-responsive morphological regulations. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 451-457	2.5	37
83	Preparation of continuous gold nanowires by electrospinning of high-concentration aqueous dispersions of gold nanoparticles. <i>Small</i> , 2012 , 8, 1436-41	11	16
82	Antimicrobial hydantoin-containing polyesters. <i>Macromolecular Bioscience</i> , 2012 , 12, 1068-76	5.5	16
81	Functional Poly(Dimethyl Aminoethyl Methacrylate) by Combination of Radical Ring-Opening Polymerization and Click Chemistry for Biomedical Applications. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 1643-1654	2.6	26
80	Low dielectric constant polyimide nanomats by electrospinning. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 951-957	3.2	16
79	Upper Critical Solution Temperature of Poly(N-acryloyl glycinamide) in Water: A Concealed Property. <i>Macromolecules</i> , 2012 , 45, 374-384	5.5	163
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