

# Seema Agarwal

## List of Publications by Citations

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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  
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L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 232 | Use of electrospinning technique for biomedical applications. <i>Polymer</i> , <b>2008</b> , 49, 5603-5621   | 3.9  | 1337      |
| 231 | Functional materials by electrospinning of polymers. <i>Progress in Polymer Science</i> , <b>2013</b> , 38, 963-991  | 29.6 | 653       |
| 230 | Polymers with upper critical solution temperature in aqueous solution. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 1898-920   | 4.8  | 403       |
| 229 | Progress in the field of electrospinning for tissue engineering applications. <i>Advanced Materials</i> , <b>2009</b> , 21, 3343-51  | 24   | 395       |
| 228 | Electrospun nanofiber reinforced composites: a review. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 2685-2720   | 4.9  | 336       |
| 227 | Electrospun and solution blown three-dimensional carbon fiber nonwovens for application as electrodes in microbial fuel cells. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1417             | 35.4 | 268       |
| 226 | Biocompatible, Thermoresponsive, and Biodegradable: Simple Preparation of "All-in-One" Biorelevant Polymers. <i>Macromolecules</i> , <b>2007</b> , 40, 8540-8543   | 5.5  | 254       |
| 225 | PDMAEMA based gene delivery materials. <i>Materials Today</i> , <b>2012</b> , 15, 388-393  | 21.8 | 218       |
| 224 | First Example of a Universal and Cost-Effective Approach: Polymers with Tunable Upper Critical Solution Temperature in Water and Electrolyte Solution. <i>Macromolecules</i> , <b>2012</b> , 45, 3910-3918 | 5.5  | 209       |
| 223 | Electrospinning of Manmade and Biopolymer Nanofibers: Progress in Techniques, Materials, and Applications. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2863-2879                              | 15.6 | 208       |
| 222 | Unusual and Superfast Temperature-Triggered Actuators. <i>Advanced Materials</i> , <b>2015</b> , 27, 4865-70   | 24   | 200       |
| 221 | Upper Critical Solution Temperature of Poly(N-acryloyl glycinamide) in Water: A Concealed Property. <i>Macromolecules</i> , <b>2012</b> , 45, 374-384  | 5.5  | 163       |
| 220 | Controlled antibody/(bio-) conjugation of inorganic nanoparticles for targeted delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 677-88  | 18.5 | 155       |
| 219 | Polymers with Upper Critical Solution Temperature in Aqueous Solution: Unexpected Properties from Known Building Blocks.. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 597-600                              | 6.6  | 151       |
| 218 | Ultralight, Thermally Insulating, Compressible Polyimide Fiber Assembled Sponges. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 32308-32315   | 9.5  | 147       |
| 217 | Chemistry, chances and limitations of the radical ring-opening polymerization of cyclic ketene acetals for the synthesis of degradable polyesters. <i>Polymer Chemistry</i> , <b>2010</b> , 1, 953         | 4.9  | 141       |
| 216 | Low-Density Open Cellular Sponges as Functional Materials. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15520-15538  | 16.4 | 136       |

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| 215 | Ultralight, Soft Polymer Sponges by Self-Assembly of Short Electrospun Fibers in Colloidal Dispersions. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2850-2856                                     | 15.6 | 134 |
| 214 | Spin-Crossover Iron(II) Coordination Polymer with Fluorescent Properties: Correlation between Emission Properties and Spin State. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 700-709 | 16.4 | 131 |
| 213 | On the way to clean and safe electrospinning—green electrospinning: emulsion and suspension electrospinning. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 372-378                             | 3.2  | 127 |
| 212 | Biocompatible drug delivery system for photo-triggered controlled release of 5-Fluorouracil. <i>Biomacromolecules</i> , <b>2011</b> , 12, 3684-91  | 6.9  | 115 |
| 211 | Non-Ionic Homo- and Copolymers with H-Donor and H-Acceptor Units with an UCST in Water. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 2109-2117   | 2.6  | 111 |
| 210 | Fate of So-Called Biodegradable Polymers in Seawater and Freshwater. <i>Global Challenges</i> , <b>2017</b> , 1, 1700048   | 4.8  | 110 |
| 209 | Electrospun PLLA nanofiber scaffolds and their use in combination with BMP-2 for reconstruction of bone defects. <i>PLoS ONE</i> , <b>2011</b> , 6, e25462   | 3.7  | 107 |
| 208 | Rare earth metal initiated ring-opening polymerization of lactones. <i>Macromolecular Rapid Communications</i> , <b>2000</b> , 21, 195-212   | 4.8  | 104 |
| 207 | Polyimide Nanofibers by Green Electrospinning via Aqueous Solution for Filtration Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 4797-4804                                  | 8.3  | 104 |
| 206 | Giving Direction to Motion and Surface with Ultra-Fast Speed Using Oriented Hydrogel Fibers. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1021-1027  | 15.6 | 96  |
| 205 | High strength in combination with high toughness in robust and sustainable polymeric materials. <i>Science</i> , <b>2019</b> , 366, 1376-1379  | 33.3 | 89  |
| 204 | Highly flexible and tough concentric triaxial polystyrene fibers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 5918-23   | 9.5  | 86  |
| 203 | Chemistry on electrospun polymeric nanofibers: merely routine chemistry or a real challenge?. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 1317-31   | 4.8  | 84  |
| 202 | Tough and transparent nylon-6 electrospun nanofiber reinforced melamine-formaldehyde composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 2597-603                                     | 9.5  | 81  |
| 201 | Combining 3D Printing with Electrospinning for Rapid Response and Enhanced Designability of Hydrogel Actuators. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800514                               | 15.6 | 77  |
| 200 | Wood-Inspired Anisotropic Cellulose Nanofibril Composite Sponges for Multifunctional Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35513-35522                               | 9.5  | 77  |
| 199 | Short electrospun polymeric nanofibers reinforced polyimide nanocomposites. <i>Composites Science and Technology</i> , <b>2013</b> , 88, 57-61   | 8.6  | 69  |
| 198 | Electrospun carbon fiber mat with layered architecture for anode in microbial fuel cells. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 1026-1029   | 5.1  | 69  |

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| 197 | Electrospinning of Fluorinated Polymers: Formation of Superhydrophobic Surfaces. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 592-601   | 3.9 | 68 |
| 196 | High-density Fibrous Polyimide Sponges with Superior Mechanical and Thermal Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19006-19014   | 9.5 | 66 |
| 195 | Synthesis and Characterization of Copolymers of 5,6-Benzo-2-methylene-1,3-dioxepane and Styrene. <i>Macromolecules</i> , <b>2003</b> , 36, 6152-6159  | 5.5 | 64 |
| 194 | LCST and UCST in One: Double Thermoresponsive Behavior of Block Copolymers of Poly(ethylene glycol) and Poly(acrylamide-co-acrylonitrile). <i>Langmuir</i> , <b>2015</b> , 31, 8940-6   | 4   | 62 |
| 193 | Homopolymers and Random Copolymers of 5,6-Benzo-2-methylene-1,3-dioxepane and Methyl Methacrylate: Structural Characterization Using 1D and 2D NMR. <i>Macromolecules</i> , <b>2003</b> , 36, 2397-2403   | 5.5 | 62 |
| 192 | Controlled/Living Ring-Closing Cyclopolymerization of Diallyldimethylammonium Chloride via the Reversible Addition Fragmentation Chain Transfer Process. <i>Macromolecules</i> , <b>2007</b> , 40, 3907-3913  | 5.5 | 59 |
| 191 | Polymeric Nanosprings by Bicomponent Electrospinning. <i>Macromolecular Materials and Engineering</i> , <b>2009</b> , 294, 265-271  | 3.9 | 57 |
| 190 | Nanofibers by green electrospinning of aqueous suspensions of biodegradable block copolyesters for applications in medicine, pharmacy and agriculture. <i>Macromolecular Rapid Communications</i> , <b>2010</b> , 31, 2077-83   | 4.8 | 57 |
| 189 | Poly(amino acid)-Based Gel Fibers with pH Responsivity by Coaxial Reactive Electrospinning. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1700147  | 4.8 | 56 |
| 188 | Amidometallate von Seltenerdelementen. Synthese und Kristallstrukturen von $[\text{Na}(12\text{-Krone-4})_2][\text{M}\{\text{N}(\text{SiMe}_3)_2\}_3(\text{OSiMe}_3)]$ ( $\text{M} = \text{Sm}, \text{Yb}$ ), $[\text{Na}(\text{THF})_3\text{Sm}\{\text{N}(\text{SiMe}_3)_2\}_3(\text{C}^? \text{CBh})]$ , $[\text{Na}(\text{THF})_6][\text{Lu}_2(\text{NH}_2)(\text{NSiMe}_3)\{\text{N}(\text{SiMe}_3)_2\}_4]$ sowie von $[\text{NaN}(\text{SiMe}_3)_2(\text{THF})_2]$ . Anwendungen der Seltenerdkomplexe als Polymerisationskatalysatoren. <i>Zeitschrift Für Anorganische Und</i> | 1.3 | 56 |
| 187 | Progress in the Field of Water- and/or Temperature-Triggered Polymer Actuators. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1800548  | 3.9 | 56 |
| 186 | Biodegradable Polymers: Present Opportunities and Challenges in Providing a Microplastic-Free Environment. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 2000017   | 2.6 | 55 |
| 185 | Controlled radical polymerization of N-acryloylglycinamide and UCST-type phase transition of the polymers. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 4920-4928   | 2.5 | 54 |
| 184 | Short nylon-6 nanofiber reinforced transparent and high modulus thermoplastic polymeric composites. <i>Composites Science and Technology</i> , <b>2013</b> , 87, 164-169  | 8.6 | 53 |
| 183 | One-Component Dual Actuation: Poly(NIPAM) Can Actuate to Stable 3D Forms with Reversible Size Change. <i>Advanced Materials</i> , <b>2016</b> , 28, 9792-9796   | 24  | 53 |
| 182 | Let There be Light: Polymeric Micelles with Upper Critical Solution Temperature as Light-Triggered Heat Nanogenerators for Combating Drug-Resistant Cancer. <i>Small</i> , <b>2018</b> , 14, e1802420   | 11  | 52 |
| 181 | Novel layer-by-layer procedure for making nylon-6 nanofiber reinforced high strength, tough, and transparent thermoplastic polyurethane composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4366-72  | 9.5 | 52 |
| 180 | Novel 'nano in nano' composites for sustained drug delivery: biodegradable nanoparticles encapsulated into nanofiber non-wovens. <i>Macromolecular Bioscience</i> , <b>2010</b> , 10, 1527-35   | 5.5 | 52 |

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| 179 | Exploration of Macroporous Polymeric Sponges As Drug Carriers. <i>Biomacromolecules</i> , <b>2017</b> , 18, 3215-3221   | 4.9  | 50 |
| 178 | Microwave-Assisted Controlled Ring-Closing Cyclopolymerization of Diallyldimethylammonium Chloride Via the RAFT Process. <i>Macromolecular Rapid Communications</i> , <b>2007</b> , 28, 1923-1928             | 4.8  | 50 |
| 177 | Biocompatible and degradable poly(2-hydroxyethyl methacrylate) based polymers for biomedical applications. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 2752   | 4.9  | 47 |
| 176 | Degradable blends of semi-crystalline and amorphous branched poly(caprolactone): Effect of microstructure on blend properties. <i>Polymer</i> , <b>2010</b> , 51, 1024-1032                                   | 3.9  | 46 |
| 175 | Tea-bag-like polymer nanoreactors filled with gold nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 4972-5   | 16.4 | 45 |
| 174 | Low-Density Self-Assembled Poly(N-Isopropyl Acrylamide) Sponges with Ultrahigh and Extremely Fast Water Uptake and Release. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1700838           | 4.8  | 44 |
| 173 | Synthesis of Degradable Materials Based on Caprolactone and Vinyl Acetate Units Using Radical Chemistry. <i>Polymer Journal</i> , <b>2009</b> , 41, 650-660   | 2.7  | 44 |
| 172 | Delignified wood with unprecedented anti-oil properties for the highly efficient separation of crude oil/water mixtures. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16735-16741               | 13   | 42 |
| 171 | Antibacterial 45S5 Bioglass <sup>®</sup> -based scaffolds reinforced with genipin cross-linked gelatin for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 3367-3378      | 7.3  | 42 |
| 170 | Exploration of the Electrical Conductivity of Double-Network Silver Nanowires/Polyimide Porous Low-Density Compressible Sponges. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34286-34293 | 9.5  | 41 |
| 169 | Design and biophysical characterization of bioresponsive degradable poly(dimethylaminoethyl methacrylate) based polymers for in vitro DNA transfection. <i>Biomacromolecules</i> , <b>2012</b> , 13, 313-22   | 6.9  | 40 |
| 168 | Effect of Different Bicomponent Electrospinning Techniques on the Formation of Polymeric Nanosprings. <i>Macromolecular Materials and Engineering</i> , <b>2009</b> , 294, 781-786                            | 3.9  | 40 |
| 167 | Synthesis, Characterization, and Properties Evaluation of Poly[(N-isopropylacrylamide)-co-ester]s. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 245-253                                   | 2.6  | 40 |
| 166 | Millisecond Response of Shape Memory Polymer Nanocomposite Aerogel Powered by Stretchable Graphene Framework. <i>ACS Nano</i> , <b>2019</b> , 13, 5549-5558   | 16.7 | 39 |
| 165 | Composite Polymeric Membranes with Directionally Embedded Fibers for Controlled Dual Actuation. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800082                                       | 4.8  | 39 |
| 164 | Ultraporous, Compressible, Wettable Polylactide/Polycaprolactone Sponges for Tissue Engineering. <i>Biomacromolecules</i> , <b>2018</b> , 19, 1663-1673   | 6.9  | 39 |
| 163 | Ultralight open cell polymer sponges with advanced properties by PPX CVD coating. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 2759-2764   | 4.9  | 39 |
| 162 | Ring opening polymerisations of cyclic esters and carbonate by rare-earth LnCp <sub>3</sub> . <i>European Polymer Journal</i> , <b>2002</b> , 38, 2365-2371   | 5.2  | 38 |

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| 161 | Thermophilic films and fibers from photo cross-linkable UCST-type polymers. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 2769-2776  | 4.9 | 37 |
| 160 | Design and proof of reversible micelle-to-vesicle multistimuli-responsive morphological regulations. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 451-457  | 2.5 | 37 |
| 159 | Short Electrospun Fibers by UV Cutting Method. <i>Macromolecular Materials and Engineering</i> , <b>2008</b> , 293, 895-899  | 3.9 | 37 |
| 158 | Functionalisation of PLLA nanofiber scaffolds using a possible cooperative effect between collagen type I and BMP-2: impact on growth and osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 1753-62 | 4.5 | 36 |
| 157 | Microstructural Characterisation and Properties Evaluation of Poly (methyl methacrylate-co-ester)s. <i>Polymer Journal</i> , <b>2007</b> , 39, 163-174   | 2.7 | 36 |
| 156 | SmI <sub>2</sub> /Sm-Based $\epsilon$ -Caprolactone/ $\epsilon$ -Caprolactone Copolymers: Microstructural Characterization Using One- and Two-Dimensional NMR Spectroscopy. <i>Macromolecules</i> , <b>2003</b> , 36, 3545-3549  | 5.5 | 36 |
| 155 | Ring-opening polymerization of $\epsilon$ -Caprolactone and $\delta$ -Valerolactone using new Sm(III) Halo-bis(trimethylsilyl)amido complexes. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 73, 1669-1674   | 2.9 | 36 |
| 154 | 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> , <b>2016</b> , 301, 48-55   | 3.9 | 36 |
| 153 | Low Density, Thermally Stable, and Intrinsic Flame Retardant Poly(bis(benzimidazo)Benzophenanthroline-dione) Sponge. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1700615  | 3.9 | 35 |
| 152 | Biobased Polycarbonate as a Gas Separation Membrane and Breathing Glass For Energy Saving Applications. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700026  | 6.8 | 34 |
| 151 | Novel amphiphilic, biodegradable, biocompatible, cross-linkable copolymers: synthesis, characterization and drug delivery applications. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 2785   | 4.9 | 34 |
| 150 | Polymer grafted silver and copper nanoparticles with exceptional stability against aggregation by a high yield one-pot synthesis. <i>Polymer</i> , <b>2011</b> , 52, 912-920   | 3.9 | 34 |
| 149 | Water-stable all-biodegradable microparticles in nanofibers by electrospinning of aqueous dispersions for biotechnical plant protection. <i>Biomacromolecules</i> , <b>2012</b> , 13, 439-44   | 6.9 | 33 |
| 148 | Synthesis and Microstructural Characterization of Ethylene Carbonate/ $\epsilon$ -Caprolactone/l-Lactide Copolymers Using One- and Two-Dimensional NMR Spectroscopy. <i>Macromolecules</i> , <b>2002</b> , 35, 7713-7717   | 5.5 | 33 |
| 147 | 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> , <b>2014</b> , 52, 1878-1884   | 2.5 | 32 |
| 146 | Effect of guanidinylation on the properties of poly(2-aminoethylmethacrylate)-based antibacterial materials. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 242-55   | 5.5 | 32 |
| 145 | Low volume shrinkage of polymers by photopolymerization of 1,1-bis(ethoxycarbonyl)-2-vinylcyclopropanes. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 2297-2304   | 4.9 | 30 |
| 144 | A Polymeric Drug Depot Based on 7-(2-Methacryloyloxyethoxy)-4-methylcoumarin Copolymers for Photoinduced Release of 5-Fluorouracil Designed for the Treatment of Secondary Cataracts. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 1857-1867                             | 2.6 | 30 |

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|-----|--|------|----|
| 143 | Plastic Pollution: A Material Problem?. <i>Macromolecules</i> , <b>2021</b> , 54, 4455-4469  | 5.5  | 30 |
| 142 | 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> , <b>2013</b> , 4, 3123  | 4.9  | 29 |
| 141 | pH dependent thermoresponsive behavior of acrylamide- $\epsilon$ -crylonitrile UCST-type copolymers in aqueous media. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 1979-1986  | 4.9  | 28 |
| 140 | Diiodosamarium based polymerisations. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , <b>2002</b> , 2033-2042  | 2.7  | 27 |
| 139 | Large Multipurpose Exceptionally Conductive Polymer Sponges Obtained by Efficient Wet-Chemical Metallization. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6182-6188   | 15.6 | 26 |
| 138 | Functional Poly(Dimethyl Aminoethyl Methacrylate) by Combination of Radical Ring-Opening Polymerization and Click Chemistry for Biomedical Applications. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 1643-1654  | 2.6  | 26 |
| 137 | Polymer/bacteria composite nanofiber non-wovens by electrospinning of living bacteria protected by hydrogel microparticles. <i>Macromolecular Bioscience</i> , <b>2011</b> , 11, 333-7   | 5.5  | 26 |
| 136 | A Non-ionic Thermophilic Hydrogel with Positive Thermosensitivity in Water and Electrolyte Solution. <i>Macromolecular Chemistry and Physics</i> , <b>2014</b> , 215, 1466-1472  | 2.6  | 25 |
| 135 | Oligomeric dual functional antibacterial polycaprolactone. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 2453  | 4.9  | 25 |
| 134 | Closing one of the last gaps in polyionene compositions: alkyloxyethylammonium ionenes as fast-acting biocides. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 341-9   | 5.5  | 25 |
| 133 | Tunable, concentration-independent, sharp, hysteresis-free UCST phase transition from poly(N-acryloyl glycinamide-acrylonitrile) system. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 274-279  | 2.5  | 25 |
| 132 | Biobased Polymers from Plant-Derived Tulipalin A. <i>ACS Symposium Series</i> , <b>2012</b> , 197-212  | 0.4  | 25 |
| 131 | Synthesis, Characterization, and Properties Evaluation of Methylcoumarin End-Functionalized Poly(methyl methacrylate) for Photoinduced Drug Release. <i>Macromolecules</i> , <b>2008</b> , 41, 3460-3467   | 5.5  | 25 |
| 130 | Bioplastic Fibers from Gum Arabic for Greener Food Wrapping Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5900-5911  | 8.3  | 25 |
| 129 | High-Barrier, Biodegradable Food Packaging. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1800-1803   | 3.3  | 25 |
| 128 | Quantitative Comparison of the Antimicrobial Efficiency of Leaching versus Nonleaching Polymer Materials. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 647-54  | 5.5  | 24 |
| 127 | Chameleon Nonwovens by Green Electrospinning. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3156-3163   | 15.6 | 24 |
| 126 | Free-Radical Copolymerization Behavior of 5,6-Benzo-2-methylene-1,3-dioxepane and Methacrylic Acid via the in Situ Generation of 3-Methyl-1,5-dihydrobenzo[e][1,3]dioxepin-3-yl Methacrylate and 2-(Acetoxymethyl)benzyl Methacrylate. <i>Macromolecules</i> , <b>2007</b> , 40, 7834-7841 | 5.5  | 24 |

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| 125 | Tree Gum Graphene Oxide Nanocomposite Films as Gas Barriers. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 633-640  | 5.6  | 24 |
| 124 | Hyperbranched polyesters as biodegradable and antibacterial additives. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 6827-6834  | 7.3  | 23 |
| 123 | Synthesis of New Thermoplastic Elastomers by Silver Nanoparticles as Cross-Linker. <i>Macromolecules</i> , <b>2011</b> , 44, 5036-5042   | 5.5  | 23 |
| 122 | Carboxylated wood-based sponges with underoil superhydrophilicity for deep dehydration of crude oil. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11354-11361  | 13   | 22 |
| 121 | Electrospinning and cutting of ultrafine bioerodible poly(lactide-co-ethylene oxide) tri- and multiblock copolymer fibers for inhalation applications. <i>Polymers for Advanced Technologies</i> , <b>2009</b> , 22, n/a-n/a                                       | 3.2  | 22 |
| 120 | Kristallstrukturen der Samarium-Amido-Komplexe [Sm(l-X){N(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> (THF)] <sub>2</sub> mit X = Cl, Br. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>1999</b> , 625, 1405-1407                             | 1.3  | 22 |
| 119 | Tailoring the Morphology of Responsive Bioinspired Bicomponent Fibers. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1700248  | 3.9  | 22 |
| 118 | Thermoresponsive Gold Nanoparticles with Positive UCST-Type Thermoresponsivity. <i>Macromolecular Chemistry and Physics</i> , <b>2015</b> , 216, 460-465   | 2.6  | 21 |
| 117 | Breathable and Flexible Polymer Membranes with Mechanoresponsive Electric Resistance. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907555   | 15.6 | 21 |
| 116 | Living Composites of Bacteria and Polymers as Biomimetic Films for Metal Sequestration and Bioremediation. <i>Macromolecular Bioscience</i> , <b>2015</b> , 15, 1052-9   | 5.5  | 20 |
| 115 | Enzymatically Degradable Polyester-Based Adhesives. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 971-977   | 5.5  | 20 |
| 114 | Functional 2-methylene-1,3-dioxepane terpolymer: a versatile platform to construct biodegradable polymeric prodrugs for intracellular drug delivery. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 4061-4068   | 4.9  | 20 |
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| 107 | Tenside-Free Biodegradable Polymer Nanofiber Nonwovens by Green Electrospinning<br><i>Macromolecules</i> , <b>2013</b> , 46, 7034-7042   | 5.5 | 19 |
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| 96  | Low dielectric constant polyimide nanomats by electrospinning. <i>Polymers for Advanced Technologies</i> , <b>2012</b> , 23, 951-957   | 3.2 | 16 |
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| 94  | Synthesis of Biobased Polycarbonate by Copolymerization of Menth-2-ene Oxide and CO <sub>2</sub> with Exceptional Thermal Stability. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 14690-14693   | 8.3 | 16 |
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| 91  | Polymer/Nanoparticle Hybrid Materials of Precise Dimensions by Size-Exclusive Fishing of Metal Nanoparticles. <i>Advanced Materials</i> , <b>2015</b> , 27, 3888-93  | 24  | 15 |
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| 79 | Synthesis and Enzymatic Degradation of Soft Aliphatic Polyesters. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 207-13   | 5.5  | 13 |
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| 68 | Thermo-switchable antibacterial activity. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 1401-12  | 5.5  | 10 |
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| 64 | Die Reaktion von mer-[ScCl <sub>3</sub> (H <sub>2</sub> O) <sub>3</sub> ] mit Pyridin. Kristallstruktur von [Sc <sub>2</sub> Cl <sub>4</sub> (EOH) <sub>2</sub> (Py) <sub>4</sub> ] <sub>4</sub> Py. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2009</b> , 635, 1910-1914 | 1.3  | 9  |
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| 36 | Virtually Wall-Less Tubular Sponges as Compartmentalized Reaction Containers. <i>Research</i> , <b>2019</b> , 2019, 4152536   | 7.8  | 4 |

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| 35 | Balancing Degradability and Physical Properties of Amorphous Poly(d,l-Lactide) by Making Blends. <i>Macromolecular Materials and Engineering</i> , 2100602   | 3.9 | 4 |
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| 25 | Electrospun Bacteria-Gold Nanoparticle/Polymer Composite Mesofiber Nonwovens for Catalytic Application. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900007   | 2.6 | 3 |
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| 10 | Interpenetrating thermophobic and thermophilic dual responsive networks. <i>Journal of Polymer Science Part A</i> , <b>2019</b> , 57, 539-544   | 2.5 | 1 |
| 9  | Redispersible Gold Nanoparticle/Polymer Composite Powders Ready for Ligand Exchange Reactions. <i>ChemNanoMat</i> , <b>2019</b> , 5, 181-186  | 3.5 | 1 |
| 8  | Theoretical and Experimental Study of Monofunctional Vinyl Cyclopropanes Bearing Hydrogen Bond Enabling Side Chains. <i>Macromolecules</i> , <b>2021</b> , 54, 11-21                                      | 5.5 | 1 |
| 7  | pH-Responsive Biohybrid Carrier Material for Phenol Decontamination in Wastewater. <i>Biomacromolecules</i> , <b>2018</b> , 19, 3224-3232   | 6.9 | 1 |
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| 5  | Polyurethanes from Hydrophobic Elastic Materials to Hydrogels with Potent Nonleaching Biocidal and Antibiofilm Activity. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 4695-4707                | 4.3 | 1 |
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