

Patrick Theato

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.

317
papers

12,830
citations

59
h-index

102
g-index

341
ext. papers

14,368
ext. citations

6.3
avg, IF

7.05
L-index

| # | Paper | IF | Citations |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 317 | The use of elemental sulfur as an alternative feedstock for polymeric materials. <i>Nature Chemistry</i> , 2013 , 5, 518-24 | 17.6 | 748 |
| 316 | Temperature- and light-responsive smart polymer materials. <i>Chemical Society Reviews</i> , 2013 , 42, 7468-83 | 38.5 | 732 |
| 315 | o-Nitrobenzyl Alcohol Derivatives: Opportunities in Polymer and Materials Science. <i>Macromolecules</i> , 2012 , 45, 1723-1736 | 5.5 | 411 |
| 314 | Multi-stimuli responsive polymers [the all-in-one talents]. <i>Polymer Chemistry</i> , 2014 , 5, 25-36 | 4.9 | 388 |
| 313 | Synthesis of pentafluorophenyl(meth)acrylate polymers: New precursor polymers for the synthesis of multifunctional materials. <i>European Polymer Journal</i> , 2005 , 41, 1569-1575 | 5.2 | 324 |
| 312 | Standing on the shoulders of Hermann Staudinger: Post-polymerization modification from past to present. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1-28 | 2.5 | 284 |
| 311 | Synthesis of well-defined polymeric activated esters. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 6677-6687 | 6.7 | 258 |
| 310 | Activated Ester Containing Polymers: Opportunities and Challenges for the Design of Functional Macromolecules. <i>Chemical Reviews</i> , 2016 , 116, 1434-95 | 68.1 | 257 |
| 309 | CO ₂ -Responsive polymers. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 1118-33 | 4.8 | 199 |
| 308 | Thermo- and Light-Responsive Polymers Containing Photoswitchable Azobenzene End Groups. <i>Macromolecules</i> , 2009 , 42, 7854-7862 | 5.5 | 177 |
| 307 | RAFT Polymerization of Pentafluorophenyl Methacrylate: Preparation of Reactive Linear Diblock Copolymers. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 1488-1493 | 4.8 | 175 |
| 306 | Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16243-16251 | 16.4 | 136 |
| 305 | Au@MnO nanoflowers: hybrid nanocomposites for selective dual functionalization and imaging. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3976-80 | 16.4 | 128 |
| 304 | Influence of End Groups on the Stimulus-Responsive Behavior of Poly[oligo(ethylene glycol) methacrylate] in Water. <i>Macromolecules</i> , 2010 , 43, 4638-4645 | 5.5 | 125 |
| 303 | Mimosa inspired bilayer hydrogel actuator functioning in multi-environments. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1320-1327 | 7.1 | 125 |
| 302 | CO ₂ -Responsive polymer materials. <i>Polymer Chemistry</i> , 2017 , 8, 12-23 | 4.9 | 120 |
| 301 | Thermo- and light responsive micellation of azobenzene containing block copolymers. <i>Chemical Communications</i> , 2010 , 46, 6717-9 | 5.8 | 119 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 300 | Inverse vulcanization of elemental sulfur with 1,4-diphenylbutadiyne for cathode materials in LiS batteries. <i>RSC Advances</i> , 2015 , 5, 24718-24722 | 3.7 | 114 |
| 299 | Sulfur Chemistry in Polymer and Materials Science. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800650 | 4.8 | 113 |
| 298 | Temperature- and Light-Responsive Polyacrylamides Prepared by a Double Polymer Analogous Reaction of Activated Ester Polymers. <i>Macromolecules</i> , 2009 , 42, 5941-5945 | 5.5 | 112 |
| 297 | Facile synthesis and characterization of functionalized, monocrystalline rutile TiO ₂ nanorods. <i>Langmuir</i> , 2006 , 22, 5209-12 | 4 | 109 |
| 296 | Template-assisted fabrication of free-standing nanorod arrays of a hole-conducting cross-linked triphenylamine derivative: toward ordered bulk-heterojunction solar cells. <i>ACS Nano</i> , 2009 , 3, 1415-22 | 16.7 | 106 |
| 295 | Formation of layered titania and zirconia catalysed by surface-bound silicatein. <i>Chemical Communications</i> , 2005 , 5533-5 | 5.8 | 106 |
| 294 | Toward Self-Healing Hydrogels Using One-Pot Thiol-Ene Click and Borax-Diol Chemistry. <i>ACS Macro Letters</i> , 2015 , 4, 673-678 | 6.6 | 104 |
| 293 | Measuring hydrophilicity of RO membranes by contact angles via sessile drop and captive bubble method: A comparative study. <i>Desalination</i> , 2012 , 303, 23-28 | 10.3 | 103 |
| 292 | Temperature and light sensitive copolymers containing azobenzene moieties prepared via a polymer analogous reaction. <i>Polymer</i> , 2009 , 50, 3079-3085 | 3.9 | 103 |
| 291 | Trends in polymeric shape memory hydrogels and hydrogel actuators. <i>Polymer Chemistry</i> , 2019 , 10, 10361-10355 | 4.9 | 102 |
| 290 | UCST-type behavior of poly[oligo(ethylene glycol) methyl ether methacrylate] (POEGMA) in aliphatic alcohols: solvent, co-solvent, molecular weight, and end group dependences. <i>Soft Matter</i> , 2011 , 7, 2484 | 3.6 | 101 |
| 289 | From defined reactive diblock copolymers to functional HPMA-based self-assembled nanoaggregates. <i>Biomacromolecules</i> , 2008 , 9, 3114-8 | 6.9 | 101 |
| 288 | Synthesis of Reactive Telechelic Polymers Based on Pentafluorophenyl Esters. <i>Macromolecules</i> , 2008 , 41, 8513-8519 | 5.5 | 94 |
| 287 | Reactive polymers: a versatile toolbox for the immobilization of functional molecules on TiO ₂ nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 908-12 | 16.4 | 93 |
| 286 | Efficient Multicomponent Postpolymerization Modification Based on Kabachnik-Fields Reaction.. <i>ACS Macro Letters</i> , 2014 , 3, 329-332 | 6.6 | 90 |
| 285 | Synthesis of hetero-telechelic alpha,omega bio-functionalized polymers. <i>Biomacromolecules</i> , 2010 , 11, 238-44 | 6.9 | 90 |
| 284 | Highly Ordered Nanoporous Thin Films from Photocleavable Block Copolymers. <i>Macromolecules</i> , 2011 , 44, 6433-6440 | 5.5 | 90 |
| 283 | Monitoring the formation of biosilica catalysed by histidine-tagged silicatein. <i>Chemical Communications</i> , 2004 , 2848-9 | 5.8 | 86 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 282 | Overcoming the insolubility of molybdenum disulfide nanoparticles through a high degree of sidewall functionalization using polymeric chelating ligands. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4809-15 | 16.4 | 85 |
| 281 | Versatile End group functionalization of RAFT polymers using functional methane thiosulfonates. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 3118-3130 | 2.5 | 84 |
| 280 | Templated organic and hybrid materials for optoelectronic applications. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1146-66 | 4.8 | 81 |
| 279 | High Performance Humidity Fluctuation Sensor for Wearable Devices via a Bioinspired Atomic-Precise Tunable Graphene-Polymer Heterogeneous Sensing Junction. <i>Chemistry of Materials</i> , 2018 , 30, 4343-4354 | 9.6 | 80 |
| 278 | Sulfur-Based Polymer Composites from Vegetable Oils and Elemental Sulfur: A Sustainable Active Material for LiB Batteries. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1600303 | 2.6 | 78 |
| 277 | Influence of Binding-Site Density in Wet Bioadhesion. <i>Advanced Materials</i> , 2008 , 20, 3872-3876 | 24 | 78 |
| 276 | A Method for Obtaining Defined End Groups of Polymethacrylates Prepared by the RAFT Process during Aminolysis. <i>Macromolecules</i> , 2008 , 41, 8316-8319 | 5.5 | 77 |
| 275 | Light-induced wettability changes on polymer surfaces. <i>Polymer</i> , 2014 , 55, 3436-3453 | 3.9 | 76 |
| 274 | Three-Component Reactions for Post-Polymerization Modifications.. <i>ACS Macro Letters</i> , 2013 , 2, 419-422 | 6.6 | 76 |
| 273 | Liquid Crystalline Phases from Polymer-Functionalized TiO ₂ Nanorods. <i>Advanced Materials</i> , 2007 , 19, 2073-2078 | 24 | 74 |
| 272 | Multi-responsive copolymers: using thermo-, light- and redox stimuli as three independent inputs towards polymeric information processing. <i>Chemical Communications</i> , 2011 , 47, 8859-61 | 5.8 | 72 |
| 271 | Reactive surface coatings based on polysilsesquioxanes: universal method toward light-responsive surfaces. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 124-8 | 9.5 | 71 |
| 270 | Fabrication of a Silica Coating on Magnetic Fe ₂ O ₃ Nanoparticles by an Immobilized Enzyme. <i>Chemistry of Materials</i> , 2008 , 20, 3567-3573 | 9.6 | 69 |
| 269 | Sequential conversion of orthogonally functionalized diblock copolymers based on pentafluorophenyl esters. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 3683-3692 | 2.5 | 67 |
| 268 | From single molecules to nanoscopically structured functional materials: Au nanocrystal growth on TiO ₂ nanowires controlled by surface-bound silicatein. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4803-9 | 16.4 | 67 |
| 267 | Synthesis and polymerization of active ester monomers based on 4-vinylbenzoic acid. <i>European Polymer Journal</i> , 2007 , 43, 2901-2912 | 5.2 | 66 |
| 266 | Glucose-sensitive self-healing hydrogel as sacrificial materials to fabricate vascularized constructs. <i>Biomaterials</i> , 2017 , 133, 20-28 | 15.6 | 65 |
| 265 | Controllable Synthesis of Stereoregular Polyesters by Organocatalytic Alternating Copolymerizations of Cyclohexene Oxide and Norbornene Anhydrides. <i>Macromolecules</i> , 2015 , 48, 3431-3437 | 5.5 | 65 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 264 | Temperature controlled dispersion of carbon nanotubes in water with pyrene-functionalized poly(N-cyclopropylacrylamide). <i>Journal of the American Chemical Society</i> , 2009 , 131, 13598-9 | 16.4 | 64 |
| 263 | Superparamagnetic gamma-Fe(2)O(3) nanoparticles with tailored functionality for protein separation. <i>Chemical Communications</i> , 2007 , 4677-9 | 5.8 | 62 |
| 262 | Functionalized Nanoporous Thin Films and Fibers from Photocleavable Block Copolymers Featuring Activated Esters. <i>Macromolecules</i> , 2013 , 46, 5195-5201 | 5.5 | 61 |
| 261 | Elemental sulfur as a reactive medium for gold nanoparticles and nanocomposite materials. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11409-12 | 16.4 | 61 |
| 260 | Controlled folding of polystyrene single chains: design of asymmetric covalent bridges. <i>Polymer Chemistry</i> , 2012 , 3, 1796-1802 | 4.9 | 60 |
| 259 | A Versatile Grafting-to Approach for the Bioconjugation of Polymers to Collagen-like Peptides Using an Activated Ester Chain Transfer Agent. <i>Macromolecules</i> , 2009 , 42, 3860-3863 | 5.5 | 59 |
| 258 | Double thermoresponsive block copolymers featuring a biotin end group. <i>Biomacromolecules</i> , 2010 , 11, 2432-9 | 6.9 | 58 |
| 257 | Rapid Mercury(II) Removal by Electrospun Sulfur Copolymers. <i>Polymers</i> , 2016 , 8, | 4.5 | 58 |
| 256 | Smart composite hydrogel with pH-, ionic strength- and temperature-induced actuation. <i>Soft Matter</i> , 2018 , 14, 8401-8407 | 3.6 | 56 |
| 255 | Covalently bonded layer-by-layer assembly of multifunctional thin films based on activated esters. <i>Langmuir</i> , 2010 , 26, 1830-6 | 4 | 54 |
| 254 | Tuning the upper critical solution temperature behavior of poly(methyl methacrylate) in aqueous ethanol by modification of an activated ester comonomer. <i>Polymer Chemistry</i> , 2012 , 3, 1418 | 4.9 | 53 |
| 253 | Versatile Synthesis of Functional Gold Nanoparticles: Grafting Polymers From and Onto. <i>Chemistry of Materials</i> , 2008 , 20, 1614-1621 | 9.6 | 53 |
| 252 | Self-Diffusion Driven Ultrafast Detection of ppm-Level Nitroaromatic Pollutants in Aqueous Media Using a Hydrophilic Fluorescent Paper Sensor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23884-23893 | 8.5 | 52 |
| 251 | PAA-PAMPS copolymers as an efficient tool to control CaCO3 scale formation. <i>Langmuir</i> , 2013 , 29, 3080-8 | 4 | 52 |
| 250 | Synthesis of Heterotelechelic Dye-Functionalized Polymer by the RAFT Process and Energy Transfer between the End Groups. <i>Macromolecules</i> , 2010 , 43, 895-902 | 5.5 | 51 |
| 249 | Pathogen-Mimicking MnO Nanoparticles for Selective Activation of the TLR9 Pathway and Imaging of Cancer Cells. <i>Advanced Functional Materials</i> , 2009 , 19, 3717-3725 | 15.6 | 51 |
| 248 | Multifaceted Synthetic Route to Functional Polyacrylates by Transesterification of Poly(pentafluorophenyl acrylates). <i>Macromolecules</i> , 2015 , 48, 8695-8707 | 5.5 | 49 |
| 247 | Reactive surface coatings based on polysilsesquioxanes: controlled functionalization for specific protein immobilization. <i>Langmuir</i> , 2009 , 25, 10068-76 | 4 | 49 |

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| 246 | Novel Inorganic/Organic Hybrid Block Copolymers as Pore Generators for Nanoporous Ultralow-Dielectric-Constant Films. <i>Macromolecules</i> , 2005 , 38, 1031-1034 | 5.5 | 49 |
| 245 | Controlled positioning of activated ester moieties on well-defined linear polymer chains. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 54-60 | 4.8 | 48 |
| 244 | pH-switchable polymer nanostructures for controlled release. <i>Polymer Chemistry</i> , 2012 , 3, 3007 | 4.9 | 48 |
| 243 | Enzyme-Mediated Deposition of a TiO ₂ Coating onto Biofunctionalized WS ₂ Chalcogenide Nanotubes. <i>Advanced Functional Materials</i> , 2009 , 19, 285-291 | 15.6 | 48 |
| 242 | Controlled Radical Polymerization of Active Ester Monomers: Precursor Polymers for Highly Functionalized Materials. <i>Macromolecules</i> , 2004 , 37, 5475-5478 | 5.5 | 48 |
| 241 | A sulfur/ Eugenol allyl ether copolymer: a material synthesized via inverse vulcanization from renewable resources and its application in LiB batteries. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1818-1822 | 7.8 | 46 |
| 240 | Chemical Strategies for the Synthesis of Protein/Polymer Conjugates. <i>Advances in Polymer Science</i> , 2012 , 37-70 | 1.3 | 46 |
| 239 | dsRNA-functionalized multifunctional gamma-Fe ₂ O ₃ nanocrystals: a tool for targeting cell surface receptors. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4748-52 | 16.4 | 46 |
| 238 | Synthesis of Polymers via Kabachnik-Fields Polycondensation. <i>ACS Macro Letters</i> , 2016 , 5, 10-13 | 6.6 | 45 |
| 237 | Template-based fabrication of nanometer-scaled actuators from liquid-crystalline elastomers. <i>Small</i> , 2011 , 7, 194-8 | 11 | 45 |
| 236 | Swelling behavior of thermosensitive nanocomposite hydrogels composed of oligo(ethylene glycol) methacrylates and clay. <i>European Polymer Journal</i> , 2015 , 69, 472-482 | 5.2 | 44 |
| 235 | Double-stranded RNA polyinosinic-polycytidylic acid immobilized onto gamma-Fe ₂ O ₃ nanoparticles by using a multifunctional polymeric linker. <i>Small</i> , 2007 , 3, 1374-8 | 11 | 44 |
| 234 | A novel nanocomposite hydrogel with precisely tunable UCST and LCST. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 477-82 | 4.8 | 42 |
| 233 | Hierarchical assembly of TiO ₂ nanoparticles on WS ₂ nanotubes achieved through multifunctional polymeric ligands. <i>Small</i> , 2007 , 3, 829-34 | 11 | 42 |
| 232 | Formation of Lipid Bilayers on a New Amphiphilic Polymer Support. <i>Langmuir</i> , 2000 , 16, 1801-1805 | 4 | 42 |
| 231 | Functionalization and patterning of reactive polymer brushes based on surface reversible addition and fragmentation chain transfer polymerization. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 4010-4018 | 2.5 | 39 |
| 230 | Synthesis of Functional Inorganic/Organic Hybrid Polymers Based on Poly(silsesquioxanes) and Their Thin Film Properties. <i>Macromolecules</i> , 2008 , 41, 5237-5244 | 5.5 | 39 |
| 229 | Preparation of transparent conductive multilayered films using active pentafluorophenyl ester modified multiwalled carbon nanotubes. <i>Langmuir</i> , 2008 , 24, 10467-73 | 4 | 39 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 228 | Glucose-Responsive Polymeric Micelles via Boronic Acid-Diol Complexation for Insulin Delivery at Neutral pH. <i>Biomacromolecules</i> , 2019 , 20, 871-881 | 6.9 | 39 |
| 227 | pH and Thermo Dual-Responsive Fluorescent Hydrogel Actuator. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800648 | 4.8 | 39 |
| 226 | Synthesis and Characterization of Hydroxyl-Functionalized Poly(propylene carbonate). <i>Macromolecules</i> , 2014 , 47, 492-497 | 5.5 | 38 |
| 225 | Single chain polymer nanoparticles via sequential ATRP and oxidative polymerization. <i>Polymer Chemistry</i> , 2013 , 4, 3765 | 4.9 | 38 |
| 224 | Mechanical and Electrical Properties of Sulfur-Containing Polymeric Materials Prepared via Inverse Vulcanization. <i>Polymers</i> , 2017 , 9, | 4.5 | 38 |
| 223 | Nanoporous Thin Films Based on Polylactide-Grafted Norbornene Copolymers. <i>Chemistry of Materials</i> , 2008 , 20, 6974-6984 | 9.6 | 38 |
| 222 | Modular Approach toward Bioactive Fiber Meshes Carrying Oligosaccharides. <i>Macromolecules</i> , 2010 , 43, 9239-9247 | 5.5 | 37 |
| 221 | Reactive surface coatings based on polysilsesquioxanes: defined adjustment of surface wettability. <i>Langmuir</i> , 2009 , 25, 14200-6 | 4 | 37 |
| 220 | PNIPAM Copolymers Containing Light-Responsive Chromophores: A Method Toward Molecular Logic Gates. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1456-61 | 4.8 | 37 |
| 219 | Surface Properties and Antimicrobial Activity of Poly(sulfur-co-1,3-diisopropenylbenzene) Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700497 | 2.6 | 36 |
| 218 | The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000216 | 2.6 | 36 |
| 217 | Collagen and collagen mimetic peptide conjugates in polymer science. <i>European Polymer Journal</i> , 2013 , 49, 2986-2997 | 5.2 | 35 |
| 216 | Controlled synthesis of poly(acetone oxime acrylate) as a new reactive polymer: Stimuli-responsive reactive copolymers. <i>European Polymer Journal</i> , 2007 , 43, 1202-1209 | 5.2 | 35 |
| 215 | Thermoresponsive self-assembly of nanostructures from a collagen-like peptide-containing diblock copolymer. <i>Macromolecular Bioscience</i> , 2015 , 15, 111-23 | 5.5 | 34 |
| 214 | Morphological transformations in a dually thermoresponsive coil-rod-coil bioconjugate. <i>Soft Matter</i> , 2012 , 8, 3832-3840 | 3.6 | 34 |
| 213 | One is enough: influencing polymer properties with a single chromophoric unit. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5804-6 | 16.4 | 34 |
| 212 | RAFT polymerization of activated 4-vinylbenzoates. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 1696-1705 | 5 | 34 |
| 211 | Polymer-Based Batteries-Flexible and Thin Energy Storage Systems. <i>Advanced Materials</i> , 2020 , 32, e2000587 | 5.87 | 34 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 210 | Mechanism for the Stable Performance of Sulfur-Copolymer Cathode in Lithium Sulfur Battery Studied by Solid-State NMR Spectroscopy. <i>Chemistry of Materials</i> , 2018 , 30, 2915-2923 | 9.6 | 33 |
| 209 | Controlled Synthesis of Reactive Polymeric Architectures Using 5-Norbornene-2-carboxylic Acid Pentafluorophenyl Ester. <i>Macromolecular Symposia</i> , 2007 , 249-250, 383-391 | 0.8 | 33 |
| 208 | Synthesis of CO ₂ -responsive polymers by post-polymerization modification. <i>Reactive and Functional Polymers</i> , 2014 , 75, 16-21 | 4.6 | 32 |
| 207 | Aggregation-Caused Quenching-Type Naphthalimide Fluorophores Grafted and Ionized in a 3D Polymeric Hydrogel Network for Highly Fluorescent and Locally Tunable Emission. <i>ACS Macro Letters</i> , 2019 , 8, 937-942 | 6.6 | 31 |
| 206 | Promotion of Color-Changing Luminescent Hydrogels from Thermo to Electrical Responsiveness toward Biomimetic Skin Applications. <i>ACS Nano</i> , 2021 , 15, 10415-10427 | 16.7 | 30 |
| 205 | UV-tunable upper critical solution temperature behavior of azobenzene containing poly(methyl methacrylate) in aqueous ethanol. <i>European Polymer Journal</i> , 2015 , 62, 435-441 | 5.2 | 29 |
| 204 | Sequential post-polymerization modification reactions of poly(pentafluorophenyl 4-vinylbenzenesulfonate). <i>Polymer Chemistry</i> , 2014 , 5, 2320 | 4.9 | 29 |
| 203 | Thiol-ene modification of electrospun polybutadiene fibers crosslinked by UV irradiation. <i>Polymer</i> , 2014 , 55, 5596-5599 | 3.9 | 29 |
| 202 | Reactive thiol-ene emulsion-templated porous polymers incorporating pentafluorophenyl acrylate. <i>Polymer</i> , 2013 , 54, 1755-1761 | 3.9 | 29 |
| 201 | Photocleavable Triblock Copolymers Featuring an Activated Ester Middle Block: "One-Step" Synthesis and Application as Locally Reactive Nanoporous Thin Films.. <i>ACS Macro Letters</i> , 2013 , 2, 966-969 | 6.6 | 29 |
| 200 | Control of reactivity of constitutional isomers of pentafluorophenyl ethynylbenzoates for the synthesis of functional poly(phenylacetylenes). <i>Polymer Chemistry</i> , 2012 , 3, 1769-1782 | 4.9 | 29 |
| 199 | Functional Polymer-Opals from Core/Shell Colloids. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 1987-1994 | 4.8 | 29 |
| 198 | Hetero-telechelic dye-labeled polymer for nanoparticle decoration. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1274-8 | 4.8 | 28 |
| 197 | Facilitating polymer conjugation via combination of RAFT polymerization and activated ester chemistry. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 4758-4767 | 2.5 | 28 |
| 196 | CO ₂ -Triggered UCST transition of amphiphilic triblock copolymers and their self-assemblies. <i>Polymer Chemistry</i> , 2017 , 8, 2619-2629 | 4.9 | 27 |
| 195 | Polymerization of an activated ester monomer based on 4-vinylsulfonic acid and its polymer analogous reaction. <i>Polymer Chemistry</i> , 2011 , 2, 376-384 | 4.9 | 27 |
| 194 | Nanotube Friendly Poly(N-isopropylacrylamide). <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1368-1378 | 4.28 | 27 |
| 193 | Hydrogen peroxide sensors for cellular imaging based on horse radish peroxidase reconstituted on polymer-functionalized TiO ₂ nanorods. <i>Nanoscale</i> , 2011 , 3, 3907-14 | 7.7 | 26 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 192 | Synthesis of Defined Poly(silsesquioxane)s: Fast Polycondensation of Trialkoxysilanes in a Continuous-Flow Microreactor. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 807-813 | 2.6 | 26 |
| 191 | CO ₂ -Responsive graft copolymers: synthesis and characterization. <i>Polymer Chemistry</i> , 2017 , 8, 1206-1216 | 4.9 | 25 |
| 190 | Post-polymerization modification of reactive polymers derived from vinylcyclopropane: 1. synthesis and thermo-responsive behaviour. <i>Polymer Chemistry</i> , 2013 , 4, 2724 | 4.9 | 25 |
| 189 | Copolymers featuring pentafluorophenyl ester and photolabile amine units: synthesis and application as reactive photopatterns. <i>Polymer Chemistry</i> , 2013 , 4, 891 | 4.9 | 25 |
| 188 | Synthesis and characterization of poly(phenylacetylenes) featuring activated ester side groups. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 211-224 | 2.5 | 25 |
| 187 | Mapping of local conductivity variations on fragile nanopillar arrays by scanning conductive torsion mode microscopy. <i>Nano Letters</i> , 2010 , 10, 1194-7 | 11.5 | 25 |
| 186 | Au@MnO ₂ -Nanoblumen-Hybrid-Nanokomposite zur selektiven dualen Funktionalisierung und Bildgebung. <i>Angewandte Chemie</i> , 2010 , 122, 4068-4072 | 3.6 | 25 |
| 185 | Reactive Polymers: A Versatile Toolbox for the Immobilization of Functional Molecules on TiO ₂ Nanoparticles. <i>Angewandte Chemie</i> , 2006 , 118, 922-926 | 3.6 | 24 |
| 184 | "Breathing" CO ₂ , O ₂ , and Light-Responsive Vesicles from a Triblock Copolymer for Rate-Tunable Controlled Release. <i>Macromolecular Rapid Communications</i> , 2018 , 39, 1700313 | 4.8 | 24 |
| 183 | A Multiple Shape Memory Hydrogel Induced by Reversible Physical Interactions at Ambient Condition. <i>Polymers</i> , 2017 , 9, | 4.5 | 23 |
| 182 | Template-based preparation of free-standing semiconducting polymeric nanorod arrays on conductive substrates. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1573-80 | 9.5 | 23 |
| 181 | Synthesis and Characterization of Base Labile Poly(N-isopropylacrylamide) Networks Utilizing a Reactive Cross-Linker. <i>Macromolecules</i> , 2009 , 42, 37-39 | 5.5 | 23 |
| 180 | Multifunctional polymer-derivatized Fe ₂ O ₃ nanocrystals as a methodology for the biomagnetic separation of recombinant His-tagged proteins. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 2339-2344 | 2.8 | 23 |
| 179 | Highly Cis/Trans-Stereoselective (ONSO)CrCl-Catalyzed Ring-Opening Copolymerization of Norbornene Anhydrides and Epoxides. <i>Macromolecules</i> , 2016 , 49, 6232-6239 | 5.5 | 22 |
| 178 | Fabrication of Chemically Tunable, Hierarchically Branched Polymeric Nanostructures by Multi-branched Anodic Aluminum Oxide Templates. <i>Langmuir</i> , 2016 , 32, 6437-44 | 4 | 22 |
| 177 | Bioinspired Synergistic Fluorescence-Color-Switchable Polymeric Hydrogel Actuators. <i>Angewandte Chemie</i> , 2019 , 131, 16389-16397 | 3.6 | 22 |
| 176 | Poly(4-vinylbenzoyl azide): A New Isocyanato Group Generating Polymer. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 718-724 | 4.8 | 22 |
| 175 | Fibrous Materials Based on Polymeric Salicyl Active Esters as Efficient Adsorbents for Selective Removal of Anionic Dye. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21100-21113 | 9.5 | 21 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 174 | Facile Fabrication of CO ₂ -Responsive Nanofibers from Photo-Cross-Linked Poly(pentafluorophenyl acrylate) Nanofibers. <i>ACS Macro Letters</i> , 2018 , 7, 431-436 | 6.6 | 21 |
| 173 | Toward photopatternable thin film optical sensors utilizing reactive polyphenylacetylenes. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 516-21 | 4.8 | 21 |
| 172 | Tailoring Properties of Carbon Nanotube Dispersions and Nanocomposites Using Temperature-Responsive Copolymers of Pyrene-Modified Poly(N-cyclopropylacrylamide). <i>Macromolecules</i> , 2010 , 43, 9447-9453 | 5.5 | 21 |
| 171 | Aggregation-Induced Emissive Carbon Dots Gels for Octopus-Inspired Shape/Color Synergistically Adjustable Actuators. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21890-21898 | 16.4 | 21 |
| 170 | Formation of thermo-sensitive and cross-linkable micelles by self-assembly of poly(pentafluorophenyl acrylate)-containing block copolymer. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 1103-1113 | 2.5 | 20 |
| 169 | Surface coatings based on polysilsesquioxanes: solution-processible smooth hole-injection layers for optoelectronic applications. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1238-42 | 4.8 | 20 |
| 168 | Synthesis of End-Functionalized Lipopolymers and Their Characterization with Regard to Polymer-Supported Lipid Membranes. <i>Macromolecular Bioscience</i> , 2002 , 2, 387-394 | 5.5 | 20 |
| 167 | No Heat, No Light-The Future of Sulfur Polymers Prepared at Room Temperature Is Bright. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13012-13014 | 16.4 | 20 |
| 166 | Facile synthesis of fluorescent polymer nanoparticles by covalent modification-nanoprecipitation of amine-reactive ester polymers. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1089-95 | 4.8 | 18 |
| 165 | Post-polymerization modification of reactive polymers derived from vinylcyclopropane: a poly(vinylcyclopropane) derivative with physical gelation and UCST behaviour in ethanol/water mixtures. <i>Polymer Chemistry</i> , 2014 , 5, 5823-5828 | 4.9 | 18 |
| 164 | Synthesis of Processable Inorganic-Organic Hybrid Polymers Based on Poly(silsesquioxanes): Grafting from Polymerization Using ATRP. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 1437-1446 | 2.6 | 18 |
| 163 | Overcoming the Insolubility of Molybdenum Disulfide Nanoparticles through a High Degree of Sidewall Functionalization Using Polymeric Chelating Ligands. <i>Angewandte Chemie</i> , 2006 , 118, 4927-4933 | 3.6 | 18 |
| 162 | Thermo- and CO ₂ -Responsive Linear Polymers and Hydrogels as CO ₂ Capturing Materials. <i>Science of Advanced Materials</i> , 2015 , 7, 948-955 | 2.3 | 18 |
| 161 | CO ₂ -Tuned Sequential Synthesis of Stereoblock Copolymers Comprising a Stereoregularity-Adjustable Polyester Block and an Atactic CO ₂ -Based Polycarbonate Block. <i>Macromolecules</i> , 2017 , 50, 9207-9215 | 5.5 | 17 |
| 160 | Activation of stable polymeric esters by using organo-activated acyl transfer reactions. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 1353-1358 | 2.5 | 17 |
| 159 | Line patterns from cylinder-forming photocleavable block copolymers. <i>Advanced Materials</i> , 2013 , 25, 4690-5 | 24 | 17 |
| 158 | Postpolymerization modification using less cytotoxic activated ester polymers for the synthesis of biological active polymers. <i>Biomacromolecules</i> , 2014 , 15, 3197-205 | 6.9 | 16 |
| 157 | Synthesis of photocleavable poly(methyl methacrylate-block-D-lactide) via atom-transfer radical polymerization and ring-opening polymerization. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 4309-4316 | 2.5 | 16 |

| | | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 156 | Thermo-Induced Double Phase Transition Behavior of Physically Cross-Linked Hydrogels Based on Oligo(ethylene glycol) methacrylates. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 2230-2240 | 2.6 | 16 |
| 155 | Advanced AAO Templating of Nanostructured Stimuli-Responsive Polymers: Hype or Hope?. <i>Advanced Functional Materials</i> , 2020 , 30, 1902959 | 15.6 | 16 |
| 154 | Recent progress in the shape deformation of polymeric hydrogels from memory to actuation. <i>Chemical Science</i> , 2021 , 12, 6472-6487 | 9.4 | 16 |
| 153 | Photoimaging through in-Situ Photopolymerization of Heterobifunctional Mesogenic Compounds in Liquid Crystalline State. <i>Macromolecules</i> , 2007 , 40, 8349-8354 | 5.5 | 15 |
| 152 | Electrospinning of Crystallizable Polypeptoid Fibers. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 100-104 | 4.8 | 15 |
| 151 | Installation of Zwitterionic α -Amino Phosphonic Acid Moieties on Surfaces via a Kabachnik-Fields Post-Polymerization Modification. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 783-793 | 2.6 | 14 |
| 150 | Preparation of dual stimuli-responsive block copolymers based on different activated esters with distinct reactivities. <i>European Polymer Journal</i> , 2015 , 69, 523-531 | 5.2 | 14 |
| 149 | Changing the Reactivity of Polymeric Activated Esters by Temperature: On/Off Switching of the Reactivity of Poly(4-acryloxyphenyldimethylsulfonium triflate). <i>Macromolecules</i> , 2012 , 45, 1331-1338 | 5.5 | 14 |
| 148 | From Single Molecules to Nanoscopically Structured Functional Materials: Au Nanocrystal Growth on TiO ₂ Nanowires Controlled by Surface-Bound Silicatein. <i>Angewandte Chemie</i> , 2006 , 118, 4921-4927 | 3.6 | 14 |
| 147 | Substrate-Independent Stable and Adherent Reactive Surface Coatings and their Conversion with Amines. <i>Macromolecular Symposia</i> , 2007 , 254, 34-41 | 0.8 | 14 |
| 146 | Alpha,omega-functionalized poly-N-isopropylacrylamides: controlling the surface activity for vesicle adsorption by temperature. <i>Journal of Colloid and Interface Science</i> , 2003 , 268, 258-62 | 9.3 | 14 |
| 145 | Enabling High-Rate and Safe Lithium Ion-Sulfur Batteries by Effective Combination of Sulfur-Copolymer Cathode and Hard-Carbon Anode. <i>ChemSusChem</i> , 2019 , 12, 480-486 | 8.3 | 14 |
| 144 | The glucose-responsive behavior of a block copolymer featuring boronic acid and glycine. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 422-431 | 2.5 | 14 |
| 143 | A synthetic approach toward a pH and sugar-responsive diblock copolymer via post-polymerization modification. <i>Polymer Chemistry</i> , 2018 , 9, 3355-3358 | 4.9 | 13 |
| 142 | Postpolymerization modification of reactive polymers derived from vinylcyclopropane. III. Polymer sequential functionalization using a combination of amines with alkoxyamines, hydrazides, isocyanates, or acyl halides. <i>Journal of Polymer Science Part A</i> , 2014 , 52, 2841-2849 | 2.5 | 13 |
| 141 | History of Post-Polymerization Modification 2013 , 1-44 | | 13 |
| 140 | Fabrication of color changeable CO ₂ sensitive nanofibers. <i>Polymer Chemistry</i> , 2017 , 8, 7446-7451 | 4.9 | 13 |
| 139 | Toward mass producible ordered bulk heterojunction organic photovoltaic devices. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 2035-40 | 4.8 | 13 |

| | | | |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 138 | Chemical mimicry: hierarchical 1D TiO ₂ @ZrO ₂ core-shell structures reminiscent of sponge spicules by the synergistic effect of silicatein-B and silintaphin-1. <i>Langmuir</i> , 2011 , 27, 5464-71 | 4 | 13 |
| 137 | Modular approach towards multi-functional surfaces with adjustable and dual-responsive wettability using a hybrid polymer toolbox. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8184 | | 13 |
| 136 | Surface Reorganization of an Amphiphilic Block Copolymer Film Studied by NEXAFS Spectroscopy. <i>Macromolecules</i> , 2006 , 39, 2592-2595 | 5.5 | 13 |
| 135 | Inverse Vulcanization of Styrylethyltrimethoxysilane-Coated Surfaces, Particles, and Crosslinked Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18639-18645 | 16.4 | 12 |
| 134 | Photocaged PNIPAM: A Light Tunable Thermal Responsive Polymer. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1800104 | 2.6 | 12 |
| 133 | Distortion of Ultrathin Photocleavable Block Copolymer Films during Photocleavage and Nanopore Formation. <i>Langmuir</i> , 2015 , 31, 8947-52 | 4 | 12 |
| 132 | IF-ReS ₂ with Covalently Linked Porphyrin Antennae. <i>Israel Journal of Chemistry</i> , 2010 , 50, 500-505 | 3.4 | 12 |
| 131 | Quasi-solid single ion conducting polymer electrolyte membrane containing novel fluorinated poly(arylene ether sulfonimide) for lithium metal batteries. <i>Journal of Power Sources</i> , 2021 , 484, 229267 | 8.9 | 12 |
| 130 | Synergy of Macrocycles and Macromolecular Topologies: An Efficient [34]Triazolophane-Based Synthesis of Cage-Shaped Polymers. <i>ACS Macro Letters</i> , 2020 , 9, 700-705 | 6.6 | 11 |
| 129 | Electrochromic poly(acetylene)s with switchable visible/near-IR absorption characteristics. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 210-213 | 4.8 | 11 |
| 128 | dsRNA-funktionalisierte Fe ₂ O ₃ -Nanokristalle: ein Instrument zur gezielten Adressierung von Rezeptoren an der Zelloberfläche. <i>Angewandte Chemie</i> , 2008 , 120, 4826-4830 | 3.6 | 11 |
| 127 | Radical polymer-grafted carbon nanotubes as high-performance cathode materials for lithium organic batteries with promoted n-/p-type redox reactions. <i>Journal of Power Sources</i> , 2021 , 483, 229136 | 8.9 | 11 |
| 126 | A Bioinspired Hierarchical Underwater Superoleophobic Surface with Reversible pH Response. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000101 | 4.6 | 10 |
| 125 | Synthesis of poly(allyl 2-ylidene-acetate) and subsequent post-polymerization modification via thiol-ene reaction. <i>Polymer Chemistry</i> , 2016 , 7, 4525-4530 | 4.9 | 10 |
| 124 | Penetration and exchange kinetics of primary alkyl amines applied to reactive poly(pentafluorophenyl acrylate) thin films. <i>Polymer Journal</i> , 2016 , 48, 487-495 | 2.7 | 10 |
| 123 | Covalent Layer-by-Layer Assembly Using Reactive Polymers 2013 , 371-406 | | 10 |
| 122 | Two-dimensional self-assembly of disulfide functionalized bis-acylurea: a nanosheet template for gold nanoparticle arrays. <i>Chemical Communications</i> , 2010 , 46, 5343-5 | 5.8 | 10 |
| 121 | Synthesis of polymeric 1-iminopyridinium ylides as photoreactive polymers. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 832-844 | 2.5 | 10 |

| | | | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----|
| 120 | Temperature-Responsive Surface Coatings Based on Poly(methylsilsesquioxane)-hybrid Polymers. <i>Macromolecular Symposia</i> , 2007 , 249-250, 424-430 | 0.8 | 10 |
| 119 | The unrevealed potential of elemental sulfur for the synthesis of high sulfur content bio-based aliphatic polyesters. <i>Polymer Chemistry</i> , 2020 , 11, 241-248 | 4.9 | 10 |
| 118 | A 3D-printable, glucose-sensitive and thermoresponsive hydrogel as sacrificial materials for constructs with vascular-like channels. <i>Applied Materials Today</i> , 2020 , 20, 100778 | 6.6 | 10 |
| 117 | A panther chameleon skin-inspired core@shell supramolecular hydrogel with spatially organized multi-luminogens enables programmable color change. <i>Cell Reports Physical Science</i> , 2021 , 2, 100417 | 6.1 | 10 |
| 116 | Polymerization-Induced Thermal Self-Assembly of Functional and Thermo-Responsive Diblock Copolymer Nano-Objects via RAFT Aqueous Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2019 , 220, 1800370 | 2.6 | 10 |
| 115 | A Systematic Study of Vinyl Ether-Based Poly(Ethylene Oxide) Side-Chain Polymer Electrolytes. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1573-1582 | 4.3 | 10 |
| 114 | UV-triggered shape-controllable PP fabric. <i>Polymer Chemistry</i> , 2018 , 9, 3232-3237 | 4.9 | 10 |
| 113 | Sequential Reactions for Post-polymerization Modifications. <i>Advances in Polymer Science</i> , 2015 , 133-162 | 1.3 | 9 |
| 112 | Post-polymerization modification of polymeric active esters towards TEMPO containing polymers: A systematic study. <i>European Polymer Journal</i> , 2020 , 130, 109660 | 5.2 | 9 |
| 111 | Post-Polymerization Modifications via Active Esters | 2013, 45-64 | 9 |
| 110 | Reactive nanorods based on activated ester polymers: a versatile template-assisted approach for the fabrication of functional nanorods. <i>Polymer Chemistry</i> , 2011 , 2, 645-650 | 4.9 | 9 |
| 109 | Template-Assisted Fabrication of Highly Ordered Interpenetrating Polymeric Donor/Acceptor Nanostructures for Photovoltaic Applications. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 2142-2150 | 2.6 | 9 |
| 108 | Elemental Sulfur as a Reactive Medium for Gold Nanoparticles and Nanocomposite Materials. <i>Angewandte Chemie</i> , 2011 , 123, 11611-11614 | 3.6 | 9 |
| 107 | Synthesis and characterization of novel organic/inorganic hybrid block copolymers. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 1458-1462 | 3.6 | 9 |
| 106 | New lipopolymers for the fixation of lipid bilayers. <i>Macromolecular Symposia</i> , 2001 , 164, 257-268 | 0.8 | 9 |
| 105 | Supramolecularly Cross-Linked Nanogel by Merocyanine Pendent Copolymer. <i>ACS Macro Letters</i> , 2017 , 6, 50-55 | 6.6 | 8 |
| 104 | UV-triggered CO ₂ -responsive behavior of nanofibers and their controlled drug release properties. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 1580-1586 | 2.5 | 8 |
| 103 | Soft Matter Technology at KIT: Chemical Perspective from Nanoarchitectures to Microstructures. <i>Advanced Materials</i> , 2019 , 31, e1806334 | 24 | 8 |

| | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 102 | Dynamic covalent polymer networks via combined nitroxide exchange reaction and nitroxide mediated polymerization. <i>Polymer Chemistry</i> , 2020 , 11, 2502-2510 | 4.9 | 8 |
| 101 | Comparison of Hybrid Blends for Solar Cell Application. <i>Energies</i> , 2010 , 3, 301-312 | 3.1 | 8 |
| 100 | Comparative study on post-polymerization modification of C1 poly(benzyl 2-ylidene-acetate) and its C2 analog poly(benzyl acrylate). <i>Journal of Polymer Science Part A</i> , 2016 , 54, 686-691 | 2.5 | 8 |
| 99 | Post-polymerization modification of Poly(vinylcyclopropanes): A potential route to periodic copolymers. <i>European Polymer Journal</i> , 2020 , 122, 109319 | 5.2 | 8 |
| 98 | Styrene-Based Poly(ethylene oxide) Side-Chain Block Copolymers as Solid Polymer Electrolytes for High-Voltage Lithium-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39257-39270 | 9.5 | 8 |
| 97 | Synthesis of Poly(glycidyl 2-ylidene-acetate) and Functionalization by Nucleophilic Ring-Opening Reactions. <i>Macromolecules</i> , 2017 , 50, 1415-1421 | 5.5 | 7 |
| 96 | 1,1-Disubstituted-2-vinylcyclopropanes for the synthesis of amphiphilic polymers. <i>European Polymer Journal</i> , 2015 , 66, 319-327 | 5.2 | 7 |
| 95 | Well-defined carbohydrate-based polymers in calcium carbonate crystallization: Influence of stereochemistry in the polymer side chain on polymorphism and morphology. <i>European Polymer Journal</i> , 2015 , 69, 628-635 | 5.2 | 7 |
| 94 | Making the Best of Polymers with Sulfur-Nitrogen Bonds: From Sources to Innovative Materials. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000181 | 4.8 | 7 |
| 93 | Topology-dependent switchability of peptide secondary structures in bioconjugates with complex architectures. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 180-185 | 4.8 | 7 |
| 92 | Investigation of Antifouling Properties of Surfaces Featuring Zwitterionic β -Aminophosphonic Acid Moieties. <i>Macromolecular Bioscience</i> , 2015 , 15, 1673-8 | 5.5 | 7 |
| 91 | Redox active polymers with phenothiazine moieties for nanoscale patterning via conductive scanning force microscopy. <i>Nanoscale</i> , 2011 , 3, 5049 | 7.7 | 7 |
| 90 | Controlled fabrication of organic nanotubes via self-assembly of non-symmetric bis-acylurea. <i>Colloid and Polymer Science</i> , 2011 , 289, 1855-1862 | 2.4 | 7 |
| 89 | Synthesis of Photoreactive Block Copolymers Based on 1-Iminopyridinium Ylides. <i>Australian Journal of Chemistry</i> , 2010 , 63, 1164 | 1.2 | 7 |
| 88 | Synthesis and immobilization of molecular switches onto titaniumdioxide nanowires. <i>Polyhedron</i> , 2009 , 28, 1728-1733 | 2.7 | 7 |
| 87 | Ethylene-Free Synthesis of Polyethylene Copolymers and Block Copolymers. <i>Macromolecules</i> , | 5.5 | 7 |
| 86 | Supramolecularly cross-linked amphiphilic block copolymer assembly by the dipolar interaction of a merocyanine dye. <i>Polymer Chemistry</i> , 2020 , 11, 695-703 | 4.9 | 7 |
| 85 | Thiolène Based Functionalization of Polymers 2013 , 65-86 | | 6 |

| | | | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 84 | Versatile Responsive Surfaces via Hybrid Polymers Containing Acetal Side Groups. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 1201-1209 | 2.6 | 6 |
| 83 | STABILIZATION OF LIPID BILAYERS ON SURFACES THROUGH CHARGED POLYMERS. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1999 , 36, 1001-1015 | 2.2 | 6 |
| 82 | Conductive hydrogel composites with autonomous self-healing properties. <i>Soft Matter</i> , 2020 , 16, 10969-10976 | 3.1 | 6 |
| 81 | The toolbox of porous anodic aluminum oxide based nanocomposites: from preparation to application. <i>Colloid and Polymer Science</i> , 2021 , 299, 325-341 | 2.4 | 6 |
| 80 | Ohne Licht und ohne Hitze? Bei Raumtemperatur hergestellte Schwefelpolymere sind spitze!. <i>Angewandte Chemie</i> , 2018 , 130, 13194-13196 | 3.6 | 6 |
| 79 | Functionalization of Porous Polymers from High-Internal-Phase Emulsions and Their Applications 2013 , 333-352 | | 5 |
| 78 | Oxygen-switchable thermo-responsive polymers with unprecedented UCST in water. <i>European Polymer Journal</i> , 2021 , 142, 110156 | 5.2 | 5 |
| 77 | The power of architecture Cage-shaped PEO and its application as a polymer electrolyte. <i>Polymer Chemistry</i> , | 4.9 | 5 |
| 76 | Preparation of Functional Polyamine Scaffolds via Mitsunobu Post-Polymerization Modification Reactions. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 661-665 | 4.8 | 4 |
| 75 | Dual Functionalization of Nanostructures of Block Copolymers with Quantum Dots and Organic Fluorophores. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 654-661 | 2.6 | 4 |
| 74 | Covalent Attachment of Gold Nanoparticles to Surfaces and Polymeric Substrates Using UV Light. <i>Macromolecular Chemistry and Physics</i> , 2012 , 213, 2550-2556 | 2.6 | 4 |
| 73 | Orthogonally Reactive Diblock Copolymers Utilizing Alkyne and Isothiocyanate Groups. <i>ACS Symposium Series</i> , 2011 , 23-37 | 0.4 | 4 |
| 72 | Growth of fibrous aggregates of silica nanoparticles: Fibre growth by mimicking the biogenic silica patterning processes. <i>Soft Matter</i> , 2009 , 5, 3657 | 3.6 | 4 |
| 71 | Soft Lithography on Block Copolymer Films: Generating Functionalized Patterns on Block Copolymer Films as a Basis to Further Surface Modification. <i>ACS Symposium Series</i> , 2004 , 129-143 | 0.4 | 4 |
| 70 | Synthesizing Polyethylene from Polyacrylates: A Decarboxylation Approach.. <i>ACS Macro Letters</i> , 2022 , 11, 161-165 | 6.6 | 4 |
| 69 | Thermoresponsive and Active Functional Fiber Mats for Cultured Cell Recovery. <i>Biomacromolecules</i> , 2017 , 18, 3714-3725 | 6.9 | 3 |
| 68 | Post-polymerization Modification of Surface-Bound Polymers. <i>Advances in Polymer Science</i> , 2015 , 163-192 | 2.3 | 3 |
| 67 | Temperature dependence of surface reorganization characteristics of amphiphilic block copolymer in air and in water studied by scanning force microscopy. <i>Journal of Plastic Film and Sheeting</i> , 2015 , 31, 434-448 | 2.4 | 3 |

| | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|
| 66 | Precise structural investigation of symmetric diblock copolymer thin films with resonant soft X-ray reflectivity. <i>Soft Matter</i> , 2013 , 9, 8820 | 3.6 | 3 |
| 65 | Thiolene Chemistry in Polymer and Materials Science 2013 , 87-118 | | 3 |
| 64 | The Synthesis of End-Functional Ring-Opening Metathesis Polymers 2013 , 153-171 | | 3 |
| 63 | Design and Synthesis of Maleimide Group Containing Polymeric Materials via the Diels-Alder/Retro Diels-Alder Strategy 2013 , 119-151 | | 3 |
| 62 | Glycopolymers via Post-Polymerization Modification Techniques 2013 , 237-265 | | 3 |
| 61 | Post-polymerization Modification of Polymer Brushes 2013 , 353-369 | | 3 |
| 60 | Reactive Coatings in Glass Capillaries: Preparation of Temperature- and Light-Responsive Surfaces and Accurate Determination of Wettability Switching. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 92-100 | 2.6 | 3 |
| 59 | Dual-faced borax mediated synthesis of self-healable hydrogels merging dynamic covalent bonding and micellization. <i>Polymer Chemistry</i> , 2021 , 12, 361-369 | 4.9 | 3 |
| 58 | Structural design of pyrene-functionalized TEMPO-containing polymers for enhanced electrochemical storage performance. <i>Polymer Chemistry</i> , 2021 , 12, 2643-2650 | 4.9 | 3 |
| 57 | Synthesis of N,N-Diethyl, N-Methyl Chitosan Chloride with Certain Quaternization Degree and Molecular Spectroscopic and Thermo-Morphological Study of the Alkylation. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 2018 , 39, 77-88 | 0.6 | 3 |
| 56 | Inherently UV Photodegradable Poly(methacrylate) Gels. <i>Advanced Functional Materials</i> , 2105681 | 15.6 | 3 |
| 55 | Radical polymer grafted graphene for high-performance Li ⁺ /Na ⁺ organic cathodes. <i>Journal of Power Sources</i> , 2021 , 511, 230363 | 8.9 | 3 |
| 54 | Surface and bulk ordering in thin films of a symmetrical diblock copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 1282-1287 | 2.6 | 2 |
| 53 | Inverse Vulcanization of Styrylethyltrimethoxysilane-Coated Surfaces, Particles, and Crosslinked Materials. <i>Angewandte Chemie</i> , 2020 , 132, 18798-18804 | 3.6 | 2 |
| 52 | A Convenient Route to Prepare Reactive Azobenzene-Containing Liquid Crystal Polymers and Photodeformable Fibers. <i>Advanced Intelligent Systems</i> , 2000254 | 6 | 2 |
| 51 | High Refractive Index Sulfur-Containing Polymers (HRISPs) 2021 , 305-338 | | 2 |
| 50 | Investigation of the Porosity of Poly(sodium methacrylate) Hydrogels by ¹ H-NMR T ₂ -Relaxation and Inverse Size-Exclusion Chromatography. <i>Macromolecular Chemistry and Physics</i> , 2021 , 222, 2000300 | 2.6 | 2 |
| 49 | Interfacial Re-initiation of Free Radicals Enables the Reborn of Broken Polymeric Hydrogel Actuators. <i>CCS Chemistry</i> , 1-32 | 7.2 | 2 |

| | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 48 | Eine genügt: Beeinflussung von Polymereigenschaften mittels einer einzelnen Chromophoreinheit. <i>Angewandte Chemie</i> , 2011 , 123, 5924-5926 | 3.6 | 1 |
| 47 | Titelbild: Elemental Sulfur as a Reactive Medium for Gold Nanoparticles and Nanocomposite Materials (Angew. Chem. 48/2011). <i>Angewandte Chemie</i> , 2011 , 123, 11459-11459 | 3.6 | 1 |
| 46 | Polyelectrolytes on block copolymer surfaces. <i>Macromolecular Symposia</i> , 2004 , 211, 191-200 | 0.8 | 1 |
| 45 | STABILIZATION OF LIPID BILAYERS ON SURFACES THROUGH CHARGED POLYMERS. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1999 , 36, 1001-1015 | 2.2 | 1 |
| 44 | Advanced Block Copolymer Design for Polymer Electrolytes: Prospects of Microphase Separation. <i>Macromolecules</i> , | 5.5 | 1 |
| 43 | Proton donor/acceptor copolymer brushes on sulfonated poly(ether ether ketone) membrane: An approach to construct efficient proton transfer pathway in polymer electrolyte membrane fuel cell. <i>Polymer</i> , 2022 , 240, 124523 | 3.9 | 1 |
| 42 | Synthesis and Application of Reactive Polymers via RAFT Polymerization 2021 , 829-871 | | 1 |
| 41 | A CO-gated anodic aluminum oxide based nanocomposite membrane for de-emulsification. <i>Nanoscale</i> , 2020 , 12, 21316-21324 | 7.7 | 1 |
| 40 | Carbon Disulfide Derived Polymers 2021 , 39-79 | | 1 |
| 39 | Acyclic Diene Metathesis (ADMET) Polymerization of 2,2,6,6-Tetramethylpiperidine-1-sulfanyl (TEMPS) Dimers. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100118 | 4.8 | 1 |
| 38 | Porous Ultra-Thin Films from Photocleavable Block Copolymers: In-Situ Degradation Kinetics Study of Pore Material. <i>Polymers</i> , 2020 , 12, | 4.5 | 1 |
| 37 | Carbonyl Sulfide Derived Polymers 2021 , 81-145 | | 1 |
| 36 | Polymer Functionalization. <i>Polymers and Polymeric Composites</i> , 2018 , 1-51 | 0.6 | 1 |
| 35 | Reconsidering terms for mechanisms of polymer growth: the "step-growth" and "chain-growth" dilemma. <i>Polymer Chemistry</i> , | 4.9 | 1 |
| 34 | Poly(ethylene oxide)-Based Electrolytes for Solid-State Potassium Metal Batteries with a Prussian Blue Positive Electrode. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 2734-2746 | 4.3 | 1 |
| 33 | Ionogels as Polymer Electrolytes for Lithium-Metal Batteries: Comparison of Poly(ethylene glycol) Diacrylate and an Imidazolium-Based Ionic Liquid Crosslinker. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 2794-2805 | 4.3 | 1 |
| 32 | Decarboxylation of Poly[N-(acryloyloxy)phthalimide] as a Versatile Tool for Post-Polymerization Modification.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200068 | 4.8 | 1 |
| 31 | Influence of 3D printed downstream support structures on pressure drop and entrainment of oleophilic and oleophobic oil mist filters. <i>Separation and Purification Technology</i> , 2022 , 290, 120802 | 8.3 | 1 |

- 30 Polymer Functionalization. *Polymers and Polymeric Composites*, **2019**, 53-103 0.6 ○
- 29 The Contribution of IUPAC to Polymer Science Education. *Journal of Chemical Education*, **2017**, 94, 1618-1628 ○
- 28 Polymer Education in Germany. *Macromolecular Symposia*, **2015**, 355, 119-125 0.8 ○
- 27 Update on Polymer Education in Korea. *Macromolecular Symposia*, **2015**, 355, 68-74 0.8 ○
- 26 Thiol-Based Click Polymerizations for Sulfur-Containing Polymers **2021**, 147-170 ○
- 25 Synthesis and Post-Polymerization Modification of Poly(N-(4-Vinylphenyl)Sulfonamide)s. *Macromolecular Rapid Communications*, **2021**, 42, e2100063 4.8 ○
- 24 Synthesis and Post-Polymerization Modification of Defined Functional Poly(vinyl ether)s. *Macromolecular Rapid Communications*, **2021**, 42, e2100133 4.8 ○
- 23 Synthesis and post-polymerization modification of poly(propargyl 2-ylidene-acetate). *European Polymer Journal*, **2021**, 156, 110564 5.2 ○
- 22 Aggregation-Induced Emissive Carbon Dots Gels for Octopus-Inspired Shape/Color Synergistically Adjustable Actuators. *Angewandte Chemie*, **2021**, 133, 22061-22069 3.6 ○
- 21 Elemental Sulfur Mediated Novel Multicomponent Redox Polycondensation for the Synthesis of Alternating Copolymers Based on 2,4-Thiophene/Arene Repeating Units. *Macromolecular Rapid Communications*, **2021**, 42, e2000695 4.8 ○
- 20 Synthesis of 4-Arm Polystyrene Star Polymers by Sequential Reactions. *ACS Symposium Series*, **2015**, 107-126 ○
- 19 Functional Polymers with Controlled Microstructure Based on Styrene and N-Substituted Maleimides **2013**, 173-192
- 18 Temperature-Triggered Functionalization of Polymers **2013**, 193-216
- 17 New Functional Polymers Using Host-Guest Chemistry **2013**, 217-236
- 16 Design of Polyvalent Polymer Therapeutics **2013**, 267-290
- 15 Posttranslational Modification of Proteins Incorporating Nonnatural Amino Acids **2013**, 291-331
- 14 Functional Polymer Surfaces via Post-polymerization Modification **2017**, 193-224
- 13 Cover Picture: Elemental Sulfur as a Reactive Medium for Gold Nanoparticles and Nanocomposite Materials (Angew. Chem. Int. Ed. 48/2011). *Angewandte Chemie - International Edition*, **2011**, 50, 11263-11264 16.4

- 12 Surface Coatings Based on Polysilsesquioxanes: Grafting-from Approach Starting from Organic Polymers. *Materials Research Society Symposia Proceedings*, **2009**, 1190, 154
- 11 Improvement of solubility and biocompatibility of MnO based nanoparticles in aqueous solutions. *Materials Research Society Symposia Proceedings*, **2011**, 1346, 1
- 10 Functionalized Magnetic Nanoparticles for Selective Targeting of Cells. *Materials Research Society Symposia Proceedings*, **2008**, 1140, 120101
- 9 From Single Molecules to Nanoscopically Structured Functional Materials. *Materials Research Society Symposia Proceedings*, **2006**, 988, 1
- 8 Polymers with Sulfur-Nitrogen Bonds **2021**, 191-234
- 7 Synthesis of Sulfur-Containing Polymers Through Multicomponent Polymerizations **2021**, 1-37
- 6 Synthesis of Polythioesters **2021**, 171-190
- 5 Reduction-Responsive Disulfide-Containing Polymers for Biomedical Applications **2021**, 393-428
- 4 Oligo(ethylene imine)-grafted glycidyl methacrylate linear and star homopolymers: Odd-even correlated transfection efficiency. *Journal of Polymer Science*, **2021**, 59, 870-881 2.4
- 3 Poly(disulfide)s **2021**, 367-392
- 2 Poly(pentafluorobenzyl 2-ylidene-acetate): Polymerization and Postpolymerization Modification. *Macromolecular Chemistry and Physics*, 2100455 2.6
- 1 Cage-Shaped Polymers Synthesis: A Comprehensive State-of-the-Art. *Macromolecular Rapid Communications*, **2021**, e2100760 4.8