

Brent S Sumerlin

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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.

198 papers	18,938 citations	73 h-index	135 g-index
218 ext. papers	20,993 ext. citations	7.9 avg, IF	7.43 L-index

#	Paper	IF	Citations
198	Future perspectives and recent advances in stimuli-responsive materials. <i>Progress in Polymer Science</i> , 2010 , 35, 278-301	29.6	1172
197	Cylindrical molecular brushes: Synthesis, characterization, and properties. <i>Progress in Polymer Science</i> , 2008 , 33, 759-785	29.6	919
196	New directions in thermoresponsive polymers. <i>Chemical Society Reviews</i> , 2013 , 42, 7214-43	58.5	918
195	Macromolecular Engineering through Click Chemistry and Other Efficient Transformations. <i>Macromolecules</i> , 2010 , 43, 1-13	5.5	615
194	Synthesis and Applications of Boronic Acid-Containing Polymers: From Materials to Medicine. <i>Chemical Reviews</i> , 2016 , 116, 1375-97	68.1	498
193	Smart hybrid materials by conjugation of responsive polymers to biomacromolecules. <i>Nature Materials</i> , 2015 , 14, 143-59	27	447
192	Highly Efficient Click Functionalization of Poly(3-azidopropyl methacrylate) Prepared by ATRP. <i>Macromolecules</i> , 2005 , 38, 7540-7545	5.5	413
191	Room-Temperature Self-Healing Polymers Based on Dynamic-Covalent Boronic Esters. <i>Macromolecules</i> , 2015 , 48, 2098-2106	5.5	405
190	Step-Growth Click Coupling of Telechelic Polymers Prepared by Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2005 , 38, 3558-3561	5.5	403
189	Temperature-regulated activity of responsive polymer-protein conjugates prepared by grafting-from via RAFT polymerization. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11288-9	16.4	359
188	Facile preparation of transition metal nanoparticles stabilized by well-defined (co)polymers synthesized via aqueous reversible addition-fragmentation chain transfer polymerization. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11562-3	16.4	346
187	Expanding the Scope of RAFT Polymerization: Recent Advances and New Horizons. <i>Macromolecules</i> , 2015 , 48, 5459-5469	5.5	343
186	Biomedical applications of boronic acid polymers. <i>Polymer</i> , 2011 , 52, 4631-4643	3.9	302
185	Boronic Acid-Based Hydrogels Undergo Self-Healing at Neutral and Acidic pH. <i>ACS Macro Letters</i> , 2015 , 4, 220-224	6.6	297
184	Photo-PISA: Shedding Light on Polymerization-Induced Self-Assembly. <i>ACS Macro Letters</i> , 2015 , 4, 1249-1253	6.6	274
183	Polymerization-induced thermal self-assembly (PITSA). <i>Chemical Science</i> , 2015 , 6, 1230-1236	9.4	262
182	Adaptable Crosslinks in Polymeric Materials: Resolving the Intersection of Thermoplastics and Thermosets. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16181-16196	16.4	248

181	50th Anniversary Perspective: Polymer Functionalization. <i>Macromolecules</i> , 2017 , 50, 5215-5252	5.5	225
180	Triply-responsive boronic acid block copolymers: solution self-assembly induced by changes in temperature, pH, or sugar concentration. <i>Chemical Communications</i> , 2009 , 2106-8	5.8	220
179	Initiation Efficiency in the Synthesis of Molecular Brushes by Grafting from via Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2005 , 38, 702-708	5.5	210
178	Versatile Pathway to Functional Telechelics via RAFT Polymerization and Click Chemistry. <i>Macromolecules</i> , 2007 , 40, 474-481	5.5	207
177	Catalyst Performance in Click-Coupling Reactions of Polymers Prepared by ATRP: Ligand and Metal Effects. <i>Macromolecules</i> , 2006 , 39, 6451-6457	5.5	206
176	End group transformations of RAFT-generated polymers with bismaleimides: Functional telechelics and modular block copolymers. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 5093-5100	2.5	202
175	Dynamic-covalent macromolecular stars with boronic ester linkages. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19832-8	16.4	192
174	Modification of Gold Surfaces with Water-Soluble (Co)polymers Prepared via Aqueous Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization. <i>Langmuir</i> , 2003 , 19, 5559-5562	4	190
173	Folate-conjugated thermoresponsive block copolymers: highly efficient conjugation and solution self-assembly. <i>Biomacromolecules</i> , 2008 , 9, 1064-70	6.9	189
172	An Efficient Route to Macromonomers via ATRP and Click Chemistry. <i>Macromolecules</i> , 2006 , 39, 5286-5292	5.5	189
171	RAFT-synthesized diblock and triblock copolymers: thermally-induced supramolecular assembly in aqueous media. <i>Soft Matter</i> , 2008 , 4, 1760	3.6	183
170	Raft Polymerization of N,N-Dimethylacrylamide Utilizing Novel Chain Transfer Agents Tailored for High Reinitiation Efficiency and Structural Control. <i>Macromolecules</i> , 2002 , 35, 4123-4132	5.5	170
169	Responsive Polymer-Protein Bioconjugates Prepared by RAFT Polymerization and Copper-Catalyzed Azide-Alkyne Click Chemistry. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1172-1176	4.8	166
168	Sugar-responsive block copolymers by direct RAFT polymerization of unprotected boronic acid monomers. <i>Chemical Communications</i> , 2008 , 2477-9	5.8	165
167	Ultra-High Molecular Weights via Aqueous Reversible-Deactivation Radical Polymerization. <i>Chem</i> , 2017 , 2, 93-101	16.2	156
166	Water-Soluble Polymers. 84. Controlled Polymerization in Aqueous Media of Anionic Acrylamido Monomers via RAFT. <i>Macromolecules</i> , 2001 , 34, 6561-6564	5.5	150
165	Self-assembled micro-organogels for 3D printing silicone structures. <i>Science Advances</i> , 2017 , 3, e1602800	4.3	144
164	Glucose-Sensitivity of Boronic Acid Block Copolymers at Physiological pH. <i>ACS Macro Letters</i> , 2012 , 1, 529-532	6.6	144

163	Facile strategy to well-defined water-soluble boronic acid (co)polymers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10348-9	16.4	141
162	The direct polymerization of 2-methacryloxyethyl glucoside via aqueous reversible addition-fragmentation chain transfer (RAFT) polymerization. <i>Polymer</i> , 2003 , 44, 6761-6765	3.9	141
161	Gradient Polymer Elution Chromatographic Analysis of β -Dihydroxypolystyrene Synthesized via ATRP and Click Chemistry. <i>Macromolecules</i> , 2005 , 38, 8979-8982	5.5	137
160	Temperature and redox responsive hydrogels from ABA triblock copolymers prepared by RAFT polymerization. <i>Soft Matter</i> , 2009 , 5, 2347-2351	3.6	135
159	Tuning the Temperature Response of Branched Poly(N-isopropylacrylamide) Prepared by RAFT Polymerization. <i>Macromolecules</i> , 2008 , 41, 7368-7373	5.5	135
158	Self-healing hydrogels containing reversible oxime crosslinks. <i>Soft Matter</i> , 2015 , 11, 6152-61	3.6	134
157	Macromolecular metamorphosis via stimulus-induced transformations of polymer architecture. <i>Nature Chemistry</i> , 2017 , 9, 817-823	17.6	133
156	Conjugation of RAFT-generated polymers to proteins by two consecutive thiol-ene reactions. <i>Polymer Chemistry</i> , 2010 , 1, 854	4.9	133
155	How dense are cylindrical brushes grafted from a multifunctional macroinitiator?. <i>Polymer</i> , 2004 , 45, 8173-8179	3.9	133
154	RAFT Polymerization of N,N-Dimethylacrylamide in Water \square <i>Macromolecules</i> , 2002 , 35, 4570-4572	5.5	132
153	Architecture-transformable polymers: Reshaping the future of stimuli-responsive polymers. <i>Progress in Polymer Science</i> , 2019 , 89, 61-75	29.6	132
152	Aqueous Solution Properties of pH-Responsive AB Diblock Acrylamido Copolymers Synthesized via Aqueous RAFT \square <i>Macromolecules</i> , 2003 , 36, 5982-5987	5.5	131
151	Tuning Hydrophobicity To Program Block Copolymer Assemblies from the Inside Out. <i>Macromolecules</i> , 2017 , 50, 935-943	5.5	130
150	Conditions for Facile, Controlled RAFT Polymerization of Acrylamide in Water \square <i>Macromolecules</i> , 2003 , 36, 1436-1439	5.5	124
149	Controlled/Living Polymerization of Sulfobetaine Monomers Directly in Aqueous Media via RAFT \square <i>Macromolecules</i> , 2002 , 35, 8663-8666	5.5	118
148	Synthesis of Block Copolymers of 2- and 4-Vinylpyridine by RAFT Polymerization. <i>Macromolecules</i> , 2003 , 36, 4679-4681	5.5	116
147	Grafting-From Proteins Using Metal-Free PETRAFT Polymerizations under Mild Visible-Light Irradiation. <i>ACS Macro Letters</i> , 2017 , 6, 452-457	6.6	113
146	Catalyst-Free Vitrimers from Vinyl Polymers. <i>Macromolecules</i> , 2019 , 52, 2105-2111	5.5	111

145	Tuning the magnetic resonance imaging properties of positive contrast agent nanoparticles by surface modification with RAFT polymers. <i>Langmuir</i> , 2009 , 25, 9487-99	4	106
144	Solution Behavior of Temperature-Responsive Molecular Brushes Prepared by ATRP. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 30-36	2.6	103
143	Development of biodegradable crosslinked urethane-doped polyester elastomers. <i>Biomaterials</i> , 2008 , 29, 4637-49	15.6	102
142	Color-Coding Visible Light Polymerizations To Elucidate the Activation of Trithiocarbonates Using Eosin Y. <i>Macromolecules</i> , 2018 , 51, 1370-1376	5.5	96
141	Maximizing the symbiosis of static and dynamic bonds in self-healing boronic ester networks. <i>Polymer Chemistry</i> , 2018 , 9, 2011-2020	4.9	94
140	Boronic Acid-Terminated Polymers: Synthesis by RAFT and Subsequent Supramolecular and Dynamic Covalent Self-Assembly. <i>Macromolecules</i> , 2009 , 42, 5614-5621	5.5	93
139	Self-healing boronic acid-based hydrogels for 3D co-cultures. <i>ACS Macro Letters</i> , 2018 , 7, 1105-1110	6.6	93
138	Self-Assembled Aptamer-Grafted Hyperbranched Polymer Nanocarrier for Targeted and Photoresponsive Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17048-17052	16.4	92
137	Dynamic-covalent nanostructures prepared by Diels-Alder reactions of styrene-maleic anhydride-derived copolymers obtained by one-step cascade block copolymerization. <i>Polymer Chemistry</i> , 2012 , 3, 3112	4.9	89
136	Block copolymer conjugates prepared by sequentially grafting from proteins via RAFT. <i>Polymer Chemistry</i> , 2011 , 2, 1531	4.9	89
135	Block Copolymer Vitrimers. <i>Journal of the American Chemical Society</i> , 2020 , 142, 283-289	16.4	88
134	Redox-Responsive Dynamic-Covalent Assemblies: Stars and Miktoarm Stars. <i>Macromolecules</i> , 2013 , 46, 2188-2198	5.5	86
133	Hyperbranched Polymers via RAFT Copolymerization of an Acryloyl Trithiocarbonate. <i>Australian Journal of Chemistry</i> , 2007 , 60, 396	1.2	85
132	Protein conjugation of thermoresponsive amine-reactive polymers prepared by RAFT. <i>Polymer Chemistry</i> , 2011 , 2, 323-327	4.9	82
131	Thermoresponsive block copolymer-protein conjugates prepared by grafting-from via RAFT polymerization. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 354-9	4.8	80
130	Star Architecture Promoting Morphological Transitions during Polymerization-Induced Self-Assembly. <i>ACS Macro Letters</i> , 2017 , 6, 337-342	6.6	79
129	Aqueous solution properties of pH-responsive AB diblock acrylamido-styrenic copolymers synthesized via aqueous reversible addition-fragmentation chain transfer. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 1724-1734	2.5	76
128	Hyperbranched polymers via RAFT self-condensing vinyl polymerization. <i>Polymer Chemistry</i> , 2016 , 7, 3361-3369	4.9	76

127	Thiol-ene click chemistry: a biocompatible way for orthogonal bioconjugation of colloidal nanoparticles. <i>Chemical Science</i> , 2017 , 8, 6182-6187	9.4	71
126	Photoreversible Covalent Hydrogels for Soft-Matter Additive Manufacturing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16793-16801	9.5	71
125	Evaluation of acrylate-based block copolymers prepared by atom transfer radical polymerization as matrices for paclitaxel delivery from coronary stents. <i>Biomacromolecules</i> , 2005 , 6, 3410-8	6.9	70
124	Rapid Block Copolymer Synthesis by Microwave-Assisted RAFT Polymerization. <i>Macromolecules</i> , 2009 , 42, 7701-7708	5.5	67
123	Bulk network polymers with dynamic B-D bonds: healable and reprocessable materials. <i>Materials Horizons</i> , 2020 , 7, 694-714	14.4	67
122	Multisegmented Block Copolymers by 'Click' Coupling of Polymers Prepared by ATRP. <i>Australian Journal of Chemistry</i> , 2007 , 60, 400	1.2	66
121	Poly(N-(2-hydroxypropyl) methacrylamide)-based nanotherapeutics. <i>Polymer Chemistry</i> , 2014 , 5, 1566-1573	7.3	65
120	Thermally-labile segmented hyperbranched copolymers: using reversible-covalent chemistry to investigate the mechanism of self-condensing vinyl copolymerization. <i>Chemical Science</i> , 2014 , 5, 4646-4655	9.4	63
119	Structure-Reactivity Relationships in Boronic Acid-Diol Complexation. <i>ACS Omega</i> , 2018 , 3, 17863-17870	3.9	61
118	Polymerization-Induced Self-Assembly of Micelles Observed by Liquid Cell Transmission Electron Microscopy. <i>ACS Central Science</i> , 2018 , 4, 543-547	16.8	59
117	Highly Tactic Cyclic Polynorbornene: Stereoselective Ring Expansion Metathesis Polymerization of Norbornene Catalyzed by a New Tethered Tungsten-Alkylidene Catalyst. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4996-9	16.4	56
116	Oximes as reversible links in polymer chemistry: dynamic macromolecular stars. <i>Polymer Chemistry</i> , 2014 , 5, 6923-6931	4.9	55
115	Introducing "Ynene" Metathesis: Ring-Expansion Metathesis Polymerization Leads to Highly Cis and Syndiotactic Cyclic Polymers of Norbornene. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6408-11	16.4	52
114	Catalyst-Free Photoinduced End-Group Removal of Thiocarbonylthio Functionality. <i>ACS Macro Letters</i> , 2017 , 6, 185-189	6.6	51
113	Biodegradable and pH-responsive nanoparticles designed for site-specific delivery in agriculture. <i>Biomacromolecules</i> , 2015 , 16, 1276-82	6.9	51
112	Tuning the sugar-response of boronic acid block copolymers. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 3373-3382	2.5	51
111	Synthetic upcycling of polyacrylates through organocatalyzed post-polymerization modification. <i>Chemical Science</i> , 2017 , 8, 7705-7709	9.4	46
110	Quantitative characterization of 3D bioprinted structural elements under cell generated forces. <i>Nature Communications</i> , 2019 , 10, 3029	17.4	43

109	Precision Control of Temperature Response by Copolymerization of Di(Ethylene Glycol) Acrylate and an Acrylamide Comonomer. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 272-279	2.6	42
108	Next-generation self-healing materials. <i>Science</i> , 2018 , 362, 150-151	33.3	42
107	Ultrahigh Molecular Weight Hydrophobic Acrylic and Styrenic Polymers through Organic-Phase Photoiniferter-Mediated Polymerization. <i>ACS Macro Letters</i> , 2020 , 9, 613-618	6.6	40
106	Next generation protein-polymer conjugates. <i>AIChE Journal</i> , 2018 , 64, 3230-3245	3.6	40
105	Facile synthesis of drug-conjugated PHPMA core-crosslinked star polymers. <i>Polymer Chemistry</i> , 2015 , 6, 4258-4263	4.9	39
104	Hyperbranched poly(N-(2-hydroxypropyl) methacrylamide) via RAFT self-condensing vinyl polymerization. <i>Polymer Chemistry</i> , 2016 , 7, 2099-2104	4.9	39
103	Enlightening advances in polymer bioconjugate chemistry: light-based techniques for grafting to and from biomacromolecules. <i>Chemical Science</i> , 2020 , 11, 5142-5156	9.4	38
102	Probing the surface-localized hyperthermia of gold nanoparticles in a microwave field using polymeric thermometers. <i>Chemical Science</i> , 2015 , 6, 5662-5669	9.4	37
101	Anthracene-based mechanophores for compression-activated fluorescence in polymeric networks. <i>Chemical Science</i> , 2019 , 10, 7702-7708	9.4	37
100	Externally Triggered Heat and Drug Release from Magnetically Controlled Nanocarriers. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 211-220	4.3	36
99	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000216	2.6	36
98	Modular oxime functionalization of well-defined alkoxyamine-containing polymers. <i>Polymer Chemistry</i> , 2012 , 3, 1758-1762	4.9	35
97	Block copolymerization of vinyl ester monomers via RAFT/MADIX under microwave irradiation. <i>Polymer</i> , 2011 , 52, 3038-3045	3.9	34
96	Alternating Radical Ring-Opening Polymerization of Cyclic Ketene Acetals: Access to Tunable and Functional Polyester Copolymers. <i>Macromolecules</i> , 2018 , 51, 5079-5084	5.5	34
95	Aminobisphosphonate Polymers via RAFT and a Multicomponent Kabachnik-Fields Reaction. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 828-33	4.8	33
94	Radical Ring-Opening Copolymerization of Cyclic Ketene Acetals and Maleimides Affords Homogeneous Incorporation of Degradable Units. <i>ACS Macro Letters</i> , 2017 , 6, 1071-1077	6.6	33
93	Multifunctional Homopolymers: Postpolymerization Modification via Sequential Nucleophilic Aromatic Substitution. <i>Macromolecules</i> , 2016 , 49, 2077-2084	5.5	33
92	Doubly-dynamic-covalent polymers composed of oxime and oxanorbornene links. <i>Polymer Chemistry</i> , 2016 , 7, 1971-1978	4.9	31

91	Polypropylene: Now Available without Chain Ends. <i>Chem</i> , 2019 , 5, 237-244	16.2	31
90	Doubly-responsive hyperbranched polymers and core-crosslinked star polymers with tunable reversibility. <i>Polymer Chemistry</i> , 2015 , 6, 7871-7880	4.9	30
89	Efficient and Chemoselective Synthesis of β -Heterodifunctional Polymers. <i>ACS Macro Letters</i> , 2015 , 4, 1114-1118	6.6	30
88	DNA micelle flares: a study of the basic properties that contribute to enhanced stability and binding affinity in complex biological systems. <i>Chemical Science</i> , 2016 , 7, 6041-6049	9.4	30
87	Triple responsive block copolymers combining pH-responsive, thermoresponsive, and glucose-responsive behaviors. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 2309-2317	2.5	29
86	Structural mobility of molecular bottle-brushes investigated by NMR relaxation dynamics. <i>Polymer</i> , 2007 , 48, 496-501	3.9	29
85	Polyelectrolyte scaling laws for microgel yielding near jamming. <i>Soft Matter</i> , 2018 , 14, 1559-1570	3.6	27
84	pH-Responsive Water-Soluble Cyclic Polymer. <i>Macromolecules</i> , 2019 , 52, 6260-6265	5.5	27
83	Facile synthesis of thiol-terminated poly(styrene-ran-vinyl phenol) (PSVPh) copolymers via reversible addition-fragmentation chain transfer (RAFT) polymerization and their use in the synthesis of gold nanoparticles with controllable hydrophilicity. <i>Polymer</i> , 2010 , 51, 1244-1251	3.9	27
82	pH Response of Model Diblock and Triblock Copolymer Networks Containing Polystyrene and Poly(2-hydroxyethyl methacrylate-co-2-(dimethylamino)ethyl methacrylate). <i>Macromolecules</i> , 2008 , 41, 4390-4397	5.5	27
81	Near-IR-induced dissociation of thermally-sensitive star polymers. <i>Chemical Science</i> , 2017 , 8, 1815-1821	9.4	26
80	Radical Departure: Thermally-Triggered Degradation of Azo-Containing Poly(β -thioester)s. <i>ACS Macro Letters</i> , 2016 , 5, 688-693	6.6	26
79	A photonic glucose biosensor for chronic wound prognostics. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 3972-3983	7.3	26
78	Synthesis of amphiphilic polysuccinimide star copolymers for responsive delivery in plants. <i>Chemical Communications</i> , 2015 , 51, 9694-7	5.8	26
77	Proapoptotic Peptide Brush Polymer Nanoparticles via Photoinitiated Polymerization-Induced Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19136-19142	16.4	26
76	Synthesis of novel boronic acid-decorated poly(2-oxazoline)s showing triple-stimuli responsive behavior. <i>Polymer Chemistry</i> , 2016 , 7, 6725-6734	4.9	26
75	Harnessing Imine Diversity To Tune Hyperbranched Polymer Degradation. <i>Macromolecules</i> , 2018 , 51, 356-363	5.5	24
74	Cross-Linked Aptamer-Lipid Micelles for Excellent Stability and Specificity in Target-Cell Recognition. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11589-11593	16.4	24

73	Microwave-Assisted RAFT Polymerization. <i>Israel Journal of Chemistry</i> , 2012 , 52, 256-263	3.4	24
72	Polystyrene-Based Vitrimers: Inexpensive and Recyclable Thermosets. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 3044-3048	4.3	23
71	Effect of chain topology on the self-organization and the mechanical properties of poly(n-butyl acrylate)-b-polystyrene block copolymers. <i>Polymer</i> , 2011 , 52, 2576-2583	3.9	23
70	Self-Assembled Aptamer-Grafted Hyperbranched Polymer Nanocarrier for Targeted and Photoresponsive Drug Delivery. <i>Angewandte Chemie</i> , 2018 , 130, 17294-17298	3.6	23
69	Synthesis of multifunctional homopolymers via sequential post-polymerization reactions. <i>Polymer Chemistry</i> , 2018 , 9, 4605-4610	4.9	23
68	Role of Polymer Architecture on the Activity of Polymer-Protein Conjugates for the Treatment of Accelerated Bone Loss Disorders. <i>Biomacromolecules</i> , 2015 , 16, 2374-81	6.9	21
67	Domain Spacing and Composition Profile Behavior in Salt-Doped Cyclic vs Linear Block Polymer Thin Films: A Joint Experimental and Simulation Study. <i>Macromolecules</i> , 2017 , 50, 7169-7176	5.5	21
66	Closed-System One-Pot Block Copolymerization by Temperature-Modulated Monomer Segregation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8624-9	16.4	21
65	Poly(-(2-Hydroxypropyl) Methacrylamide)-Valproic Acid Conjugates as Block Copolymer Nanocarriers. <i>Polymer Chemistry</i> , 2017 , 8, 4983-4987	4.9	20
64	Boronic Acid Linear Homopolymers as Effective Emulsifiers and Gelators. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21668-72	9.5	20
63	Block Copolymer Sequence Inversion through Photoiniferter Polymerization. <i>ACS Macro Letters</i> , 2019 , 8, 1461-1466	6.6	20
62	Let there be light: photo-cross-linked block copolymer nanoparticles. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 174-179	4.8	20
61	Use of polymeric nanoparticles to improve seed germination and plant growth under copper stress. <i>Science of the Total Environment</i> , 2020 , 745, 141055	10.2	20
60	Functional Diversification of Polymethacrylates by Dynamic α -Ketoester Modification. <i>Macromolecules</i> , 2018 , 51, 6380-6386	5.5	19
59	Efficiency of Biodegradable and pH-Responsive Polysuccinimide Nanoparticles (PSI-NPs) as Smart Nanodelivery Systems in Grapefruit: In Vitro Cellular Investigation. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800159	5.5	19
58	Ultra-High-Molecular-Weight Macrocyclic Bottlebrushes via Post-Polymerization Modification of a Cyclic Polymer. <i>Macromolecules</i> , 2020 , 53, 9717-9724	5.5	18
57	Modular segmented hyperbranched copolymers. <i>Polymer Chemistry</i> , 2016 , 7, 4155-4159	4.9	18
56	Effect of Polymer Chemistry on the Linear Viscoelasticity of Complex Coacervates. <i>Macromolecules</i> , 2020 , 53, 7851-7864	5.5	18

55	Jammed Polyelectrolyte Microgels for 3D Cell Culture Applications: Rheological Behavior with Added Salts.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1509-1517	4.1	17
54	Comparative assessment of polymeric and other nanoparticles impacts on soil microbial and biochemical properties. <i>Geoderma</i> , 2020 , 367, 114278	6.7	17
53	Modular and rapid access to amphiphilic homopolymers via successive chemoselective post-polymerization modification. <i>Polymer Chemistry</i> , 2017 , 8, 6028-6032	4.9	16
52	Harnessing Strained Disulfides for Photocurable Adaptable Hydrogels. <i>Macromolecules</i> , 2020 , 53, 4038-4046	5.5	16
51	Cyclic Poly(4-methyl-1-pentene): Efficient Catalytic Synthesis of a Transparent Cyclic Polymer. <i>Macromolecules</i> , 2020 , 53, 7774-7782	5.5	16
50	Characterizing polymer macrostructures by identifying and locating microstructures along their chains with the kerr effect. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 735-741	2.6	14
49	Engineering the Surface Properties of Poly(dimethylsiloxane) Utilizing Aqueous RAFT Photografting of Acrylate/Methacrylate Monomers. <i>Macromolecules</i> , 2018 , 51, 306-317	5.5	13
48	Theranostic nanocarriers combining high drug loading and magnetic particle imaging. <i>International Journal of Pharmaceutics</i> , 2019 , 572, 118796	6.5	12
47	Click Functionalization of Well-Defined Copolymers Prepared by Atom Transfer Radical Polymerization. <i>ACS Symposium Series</i> , 2006 , 140-152	0.4	12
46	Probing Thermoresponsive Polymerization-Induced Self-Assembly with Variable-Temperature Liquid-Cell Transmission Electron Microscopy. <i>Matter</i> , 2021 , 4, 722-736	12.7	12
45	Mild and efficient synthesis of heterodifunctionalized polymers and polymer bioconjugates. <i>Polymer Chemistry</i> , 2017 , 8, 2457-2461	4.9	11
44	Synthesis of functional and boronic acid-containing aliphatic polyesters via Suzuki coupling. <i>Chemical Communications</i> , 2019 , 55, 5655-5658	5.8	11
43	Beyond microstructures: Using the Kerr Effect to characterize the macrostructures of synthetic polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 155-166	2.6	11
42	Cyclic polyacetylene. <i>Nature Chemistry</i> , 2021 , 13, 792-799	17.6	10
41	Employing a Sugar-Derived Dimethacrylate to Evaluate Controlled Branch Growth during Polymerization with Multiolefinic Compounds. <i>Macromolecules</i> , 2016 , 49, 9396-9405	5.5	10
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