Krzysztof Matyjaszewski

List of Publications by Year
in descending order

1,245 papers	138,788 citations	73 172 h-index	198 315 g-index
1376 all docs	1376 docs citations	1376 times ranked	40576 citing authors

#	Article	IF	Citations
1	Atom Transfer Radical Polymerization. Chemical Reviews, 2001, 101, 2921-2990.	47.7	7,245
2	Controlled/"living" radical polymerization. atom transfer radical polymerization in the presence of transition-metal complexes. Journal of the American Chemical Society, 1995, 117, 5614-5615.	13.7	4,406
3	Controlled/living radical polymerization: Features, developments, and perspectives. Progress in Polymer Science, 2007, 32, 93-146.	24.7	2,906
4	Atom Transfer Radical Polymerization (ATRP): Current Status and Future Perspectives. Macromolecules, 2012, 45, 4015-4039.	4.8	2,260
5	Controlled/"Living" Radical Polymerization. Halogen Atom Transfer Radical Polymerization Promoted by a Cu(I)/Cu(II) Redox Process. Macromolecules, 1995, 28, 7901-7910.	4.8	1,618
6	Design and Preparation of Porous Polymers. Chemical Reviews, 2012, 112, 3959-4015.	47.7	1,491
7	The development of microgels/nanogels for drug delivery applications. Progress in Polymer Science, 2008, 33, 448-477.	24.7	1,419
8	Functional polymers by atom transfer radical polymerization. Progress in Polymer Science, 2001, 26, 337-377.	24.7	1,205
9	â€œGreenâ€•Atom Transfer Radical Polymerization:â€‰ From Process Design to Preparation of Well-Defined Environmentally Friendly Polymeric Materials. Chemical Reviews, 2007, 107, 2270-2299.	47.7	1,204
10	Nanostructured functional materials prepared by atom transfer radical polymerization. Nature Chemistry, 2009, 1, 276-288.	13.6	1,177
11	Macromolecular Engineering by Atom Transfer Radical Polymerization. Journal of the American Chemical Society, 2014, 136, 6513-6533.	13.7	1,036
12	Cylindrical molecular brushes: Synthesis, characterization, and properties. Progress in Polymer Science, 2008, 33, 759-785.	24.7	1,035
13	Polymers at Interfaces:Â Using Atom Transfer Radical Polymerization in the Controlled Growth of Homopolymers and Block Copolymers from Silicon Surfaces in the Absence of Untethered Sacrificial Initiator. Macromolecules, 1999, 32, 8716-8724.	4.8	934
14	Controlled/â€œLivingâ€•Radical Polymerization. Kinetics of the Homogeneous Atom Transfer Radical Polymerization of Styrene. Journal of the American Chemical Society, 1997, 119, 674-680.	13.7	856
15	Atom Transfer Radical Polymerization and the Synthesis of Polymeric Materials. Advanced Materials, 1998, 10, 901-915.	21.0	855
16	Diminishing catalyst concentration in atom transfer radical polymerization with reducing agents. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15309-15314.	7.1	799
17	Marrying click chemistry with polymerization: expanding the scope of polymeric materials. Chemical Society Reviews, 2010, 39, 1338-1354.	38.1	753
18	Synthesis of functional polymers with controlled architecture by CRP of monomers in the presence of cross-linkers: From stars to gels. Progress in Polymer Science, 2009, 34, 317-350.	24.7	741

#	Article	IF	Citations
19	From precision polymers to complex materials and systems. Nature Reviews Materials, 2016, 1, .	48.7	725
20	Electrochemically Mediated Atom Transfer Radical Polymerization. Science, 2011, 332, 81-84.	12.6	724
21	Activators Regenerated by Electron Transfer for Atom Transfer Radical Polymerization of Styrene. Macromolecules, 2006, 39, 39-45.	4.8	715
22	Synthesis of Nanocomposite Organic/Inorganic Hybrid Materials Using Controlled/â€œLivingâ€•Radical Polymerization. Chemistry of Materials, 2001, 13, 3436-3448.	6.7	681
23	Synthesis of Polymer Brushes Using Atom Transfer Radical Polymerization. Macromolecular Rapid Communications, 2003, 24, 1043-1059.	3.9	665
24	Atom transfer radical addition and polymerization reactions catalyzed by ppm amounts of copper complexes. Chemical Society Reviews, 2008, 37, 1087.	38.1	658
25	Permanent, non-leaching antibacterial surfacesâ€"2: How high density cationic surfaces kill bacterial cells. Biomaterials, 2007, 28, 4870-4879.	11.4	639
26	Grafting from Surfaces for â€œEveryoneâ€•Â ARGET ATRP in the Presence of Air. Langmuir, 2007, 23, 4528-4531.	3.5	603
27	Stimuli-responsive molecular brushes. Progress in Polymer Science, 2010, 35, 24-44.	24.7	600
28	Controlled/living radical polymerization in aqueous media: homogeneous and heterogeneous systems. Progress in Polymer Science, 2001, 26, 2083-2134.	24.7	588
29	Activators Regenerated by Electron Transfer for Atom-Transfer Radical Polymerization of (Meth)acrylates and Related Block Copolymers. Angewandte Chemie - International Edition, 2006, 45, 4482-4486.	13.8	587
30	Selfâ€•Healing of Covalently Crossâ€•Linked Polymers by Reshuffling Thiuram Disulfide Moieties in Air under Visible Light. Advanced Materials, 2012, 24, 3975-3980.	21.0	585
31	Synthesis of Molecular Brushes by â€œGrafting ontoâ€•Method:â€‰ Combination of ATRP and Click Reactions. Journal of the American Chemical Society, 2007, 129, 6633-6639.	13.7	559
32	Reversible-deactivation radical polymerization (Controlled/living radical polymerization): From discovery to materials design and applications. Progress in Polymer Science, 2020, 111, 101311.	24.7	555
33	Photomediated controlled radical polymerization. Progress in Polymer Science, 2016, 62, 73-125.	24.7	537
34	The Synthesis of Densely Grafted Copolymers by Atom Transfer Radical Polymerization. Macromolecules, 1998, 31, 9413-9415.	4.8	531
35	Permanent, Nonleaching Antibacterial Surfaces. 1. Synthesis by Atom Transfer Radical Polymerization. Biomacromolecules, 2004, 5, 877-882.	5.4	522
36	Activator Generated by Electron Transfer for Atom Transfer Radical Polymerization. Macromolecules, 2005, 38, 4139-4146.	4.8	521

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37	Visible Light and Sunlight Photoinduced ATRP with ppm of Cu Catalyst. ACS Macro Letters, 2012, 1, 1219-1223.	4.8	521
38	Understanding Atom Transfer Radical Polymerization: Effect of Ligand and Initiator Structures on the Equilibrium Constants. Journal of the American Chemical Society, 2008, 130, 10702-10713.	13.7	511
39	ATRP in the design of functional materials for biomedical applications. Progress in Polymer Science, 2012, 37, 18-37.	24.7	506
40	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. Chemical Reviews, 2020, 120, 9363-9419.	47.7	492
41	Repeatable Photoinduced Selfâ€Healing of Covalently Crossâ€Linked Polymers through Reshuffling of Trithiocarbonate Units. Angewandte Chemie - International Edition, 2011, 50, 1660-1663.	13.8	488
42	Ionic Strength and Composition Affect the Mobility of Surface-Modified Fe⁰ Nanoparticles in Water-Saturated Sand Columns. Environmental Science & Technology, 2008, 42, 3349-3355.	10.0	478
43	Synthesis of Branched and Hyperbranched Polystyrenes. Macromolecules, 1996, 29, 1079-1081.	4.8	471
44	"Living"/Controlled Radical Polymerization. Transition-Metal-Catalyzed Atom Transfer Radical Polymerization in the Presence of a Conventional Radical Initiator. Macromolecules, 1995, 28, 7572-7573.	4.8	461
45	Transition metal catalysts for controlled radical polymerization. Progress in Polymer Science, 2010, 35, 959-1021.	24.7	461
46	Preparation of Homopolymers and Block Copolymers in Miniemulsion by ATRP Using Activators Generated by Electron Transfer (AGET). Journal of the American Chemical Society, 2005, 127, 3825-3830.	13.7	460
47	Advanced Materials by Atom Transfer Radical Polymerization. Advanced Materials, 2018, 30, e1706441.	21.0	456
48	Biodegradable Nanogels Prepared by Atom Transfer Radical Polymerization as Potential Drug Delivery Carriers:Â Synthesis, Biodegradation, in Vitro Release, and Bioconjugation. Journal of the American Chemical Society, 2007, 129, 5939-5945.	13.7	449
49	Controlled/â€œLivingâ€•Radical Polymerization. Atom Transfer Radical Polymerization Using Multidentate Amine Ligands. Macromolecules, 1997, 30, 7697-7700.	4.8	447
50	Highly Efficient â€œClickâ€•Functionalization of Poly(3-azidopropyl methacrylate) Prepared by ATRP. Macromolecules, 2005, 38, 7540-7545.	4.8	438
51	Synthesis of Star Polymers by a Combination of ATRP and the â€œClickâ€•Coupling Method. Macromolecules, 2006, 39, 4960-4965.	4.8	435
52	Solvent-free, supersoft and superelastic bottlebrush melts and networks. Nature Materials, 2016, 15, 183-189.	27.5	428
53	Step-Growth â€œClickâ€•Coupling of Telechelic Polymers Prepared by Atom Transfer Radical Polymerization. Macromolecules, 2005, 38, 3558-3561.	4.8	427
54	Self-Healing Polymer Films Based on Thiolâ€“Disulfide Exchange Reactions and Self-Healing Kinetics Measured Using Atomic Force Microscopy. Macromolecules, 2012, 45, 142-149.	4.8	407

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55	Gradient copolymers by atom transfer radical copolymerization. Journal of Physical Organic Chemistry, 2000, 13, 775-786.	1.9	405
56	Surface Modifications Enhance Nanoiron Transport and NAPL Targeting in Saturated Porous Media. Environmental Engineering Science, 2007, 24, 45-57.	1.6	403
57	Controlled/living radical polymerization. Materials Today, 2005, 8, 26-33.	14.2	401
58	Synthesis of Molecular Brushes with Block Copolymer Side Chains Using Atom Transfer Radical Polymerization. Macromolecules, 2001, 34, 4375-4383.	4.8	400
59	Copper(I)-Catalyzed Atom Transfer Radical Polymerization. Accounts of Chemical Research, 1999, 32, 895-903.	15.6	393
60	Mechanism of Photoinduced Metal-Free Atom Transfer Radical Polymerization: Experimental and Computational Studies. Journal of the American Chemical Society, 2016, 138, 2411-2425.	13.7	384
61	Synthesis and Characterization of Star Polymers with Varying Arm Number, Length, and Composition from Organic and Hybrid Inorganic/Organic Multifunctional Initiators. Macromolecules, 1999, 32, 6526-6535.	4.8	380
62	Macromolecular engineering: From rational design through precise macromolecular synthesis and processing to targeted macroscopic material properties. Progress in Polymer Science, 2005, 30, 858-875.	24.7	378
63	Controlled/â€œLivingâ€•Radical Polymerization of Styrene and Methyl Methacrylate Catalyzed by Iron Complexes1. Macromolecules, 1997, 30, 8161-8164.	4.8	375
64	Light-Induced Reversible Formation of Polymeric Micelles. Angewandte Chemie - International Edition, 2007, 46, 2453-2457.	13.8	368
65	Controlled/â€œLivingâ€•Radical Polymerization. Atom Transfer Radical Polymerization of Acrylates at Ambient Temperature. Macromolecules, 1998, 31, 5958-5959.	4.8	367
66	Optimization of Atom Transfer Radical Polymerization Using Cu(I)/Tris(2-(dimethylamino)ethyl)amine as a Catalyst. Macromolecules, 2000, 33, 8629-8639.	4.8	363
67	Utilizing Halide Exchange To Improve Control of Atom Transfer Radical Polymerization. Macromolecules, 1998, 31, 6836-6840.	4.8	360
68	Electrochemically Active Nitrogen-Enriched Nanocarbons with Well-Defined Morphology Synthesized by Pyrolysis of Self-Assembled Block Copolymer. Journal of the American Chemical Society, 2012, 134, 14846-14857.	13.7	354
69	Use of Ascorbic Acid as Reducing Agent for Synthesis of Well-Defined Polymers by ARGET ATRP. Macromolecules, 2007, 40, 1789-1791.	4.8	351
70	Adsorption-induced scission of carbonâ€“carbon bonds. Nature, 2006, 440, 191-194.	27.8	341
71	Synthesis of Acrylate and Methacrylate Block Copolymers Using Atom Transfer Radical Polymerization. Macromolecules, 1998, 31, 8005-8008.	4.8	336
72	Surface-Initiated Polymerization as an Enabling Tool for Multifunctional (Nano-)Engineered Hybrid Materials. Chemistry of Materials, 2014, 26, 745-762.	6.7	333

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73	Aqueous ARGET ATRP. Macromolecules, 2012, 45, 6371-6379.	4.8	331
74	Atom Transfer Radical Polymerization of (Meth)acrylamides. Macromolecules, 1999, 32, 4826-4831.	4.8	329
75	Preparation of Hyperbranched Polyacrylates by Atom Transfer Radical Polymerization. 1. Acrylic AB* Monomers in â€œLivingâ€•Radical Polymerizations. Macromolecules, 1997, 30, 5192-5194.	4.8	328
76	Synthesis and Characterization of Organic/Inorganic Hybrid Nanoparticles:Â Kinetics of Surface-Initiated Atom Transfer Radical Polymerization and Morphology of Hybrid Nanoparticle Ultrathin Films. Macromolecules, 2003, 36, 5094-5104.	4.8	328
77	Densely-Grafted and Double-Grafted PEO Brushes via ATRP. A Route to Soft Elastomers. Macromolecules, 2003, 36, 6746-6755.	4.8	322
78	Inverse Miniemulsion ATRP:Â A New Method for Synthesis and Functionalization of Well-Defined Water-Soluble/Cross-Linked Polymeric Particles. Journal of the American Chemical Society, 2006, 128, 5578-5584.	13.7	313
79	Controlled Radical Polymerizations: The Use of Alkyl Iodides in Degenerative Transfer. Macromolecules, 1995, 28, 2093-2095.	4.8	311
80	Molecular Parameters of Hyperbranched Polymers Made by Self-Condensing Vinyl Polymerization. 2. Degree of Branchingâ€. Macromolecules, 1997, 30, 7024-7033.	4.8	302
81	Adsorbed Triblock Copolymers Deliver Reactive Iron Nanoparticles to the Oil/Water Interface. Nano Letters, 2005, 5, 2489-2494.	9.1	302
82	Zerovalent Metals in Controlled/â€œLivingâ€•Radical Polymerization. Macromolecules, 1997, 30, 7348-7350.	4.8	301
83	Synthesis of Uniform Proteinâˆ’Polymer Conjugates. Biomacromolecules, 2005, 6, 3380-3387.	5.4	300
84	Antibacterial Polypropylene via Surface-Initiated Atom Transfer Radical Polymerization. Biomacromolecules, 2007, 8, 1396-1399.	5.4	298
85	Atom Transfer Radical Polymerization oftert-Butyl Acrylate and Preparation of Block Copolymers. Macromolecules, 2000, 33, 4039-4047.	4.8	295
86	Electrochemically mediated atom transfer radical polymerization (eATRP). Progress in Polymer Science, 2017, 69, 47-78.	24.7	295
87	Photoinduced Metal-Free Atom Transfer Radical Polymerization of Acrylonitrile. ACS Macro Letters, 2015, 4, 192-196.	4.8	292
88	Externally controlled atom transfer radical polymerization. Chemical Society Reviews, 2018, 47, 5457-5490.	38.1	290
89	Mimicking biological stressâ€“strain behaviour with synthetic elastomers. Nature, 2017, 549, 497-501.	27.8	286
90	Atom Transfer Radical Polymerization of 2-Hydroxyethyl Methacrylate. Macromolecules, 1999, 32, 5772-5776.	4.8	279

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91	Reversible-Deactivation Radical Polymerization in the Presence of Metallic Copper. A Critical Assessment of the SARA ATRP and SET-LRP Mechanisms. Macromolecules, 2013, 46, 8749-8772.	4.8	276
92	Ab Initio Evaluation of the Thermodynamic and Electrochemical Properties of Alkyl Halides and Radicals and Their Mechanistic Implications for Atom Transfer Radical Polymerization. Journal of the American Chemical Society, 2008, 130, 12762-12774.	13.7	274
93	Synthesis of Star-Shaped Polystyrene by Atom Transfer Radical Polymerization Using an â€œArm Firstâ€• Approach. Macromolecules, 1999, 32, 4482-4484.	4.8	270
94	Statistical, Gradient, Block, and Graft Copolymers by Controlled/Living Radical Polymerizations. , 2002, , 1-13.		270
95	Graft Copolymers by a Combination of ATRP and Two Different Consecutive Click Reactions. Macromolecules, 2007, 40, 4439-4445.	4.8	270
96	Architecturally Complex Polymers with Controlled Heterogeneity. Science, 2011, 333, 1104-1105.	12.6	270
97	Determination of Equilibrium Constants for Atom Transfer Radical Polymerization. Journal of the American Chemical Society, 2006, 128, 1598-1604.	13.7	269
98	Role of Cu⁰ in Controlled/â€œLivingâ€•Radical Polymerization. Macromolecules, 2007, 40, 7795-7806.	4.8	268
99	SARA ATRP or SET-LRP. End of controversy?. Polymer Chemistry, 2014, 5, 4409.	3.9	266
100	Effects of Initiator Structure on Activation Rate Constants in ATRP. Macromolecules, 2007, 40, 1858-1863.	4.8	265
101	Stereoblock Copolymers and Tacticity Control in Controlled/Living Radical Polymerization. Journal of the American Chemical Society, 2003, 125, 6986-6993.	13.7	264
102	Structural aspects of copper catalyzed atom transfer radical polymerization. Coordination Chemistry Reviews, 2005, 249, 1155-1184.	18.8	264
103	How are Radicals (Re)Generated in Photochemical ATRP?. Journal of the American Chemical Society, 2014, 136, 13303-13312.	13.7	263
104	ATRP Synthesis of Amphiphilic Random, Gradient, and Block Copolymers of 2-(Dimethylamino)ethyl Methacrylate and n-Butyl Methacrylate in Aqueous Media. Biomacromolecules, 2003, 4, 1386-1393.	5.4	259
105	End-Functional Poly(tert-butyl acrylate) Star Polymers by Controlled Radical Polymerization. Macromolecules, 2000, 33, 2340-2345.	4.8	256
106	Controlled/â€œLivingâ€•Atom Transfer Radical Polymerization of Methyl Methacrylate Using Various Initiation Systems. Macromolecules, 1998, 31, 1527-1534.	4.8	254
107	Controlled/â€œLivingâ€•Radical Polymerization. Homogeneous Reverse Atom Transfer Radical Polymerization Using AIBN as the Initiator. Macromolecules, 1997, 30, 7692-7696.	4.8	253
108	Polymerization ofn-Butyl Acrylate by Atom Transfer Radical Polymerization. Remarkable Effect of Ethylene Carbonate and Other Solvents. Macromolecules, 1998, 31, 1535-1541.	4.8	252

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109	Reversible Redox Cleavage/Coupling of Polystyrene with Disulfide or Thiol Groups Prepared by Atom Transfer Radical Polymerization. Macromolecules, 2002, 35, 9009-9014.	4.8	251
110	Nanostructured Carbon Arrays from Block Copolymers of Polyacrylonitrile. Journal of the American Chemical Society, 2002, 124, 10632-10633.	13.7	249
111	"Living" radical polymerization. 1. Possibilities and limitations. Macromolecules, 1994, 27, 638-644.	4.8	243
112	Effect of Ligand Structure on Activation Rate Constants in ATRP. Macromolecules, 2006, 39, 4953-4959.	4.8	243
113	Influence of the degree of methacrylation on hyaluronic acid hydrogels properties. Biomaterials, 2008, 29, 1739-1749.	11.4	242
114	Mechanism of Controlled/â€œLivingâ€•Radical Polymerization of Styrene in the Presence of Nitroxyl Radicals. Kinetics and Simulations. Macromolecules, 1996, 29, 7661-7670.	4.8	240
115	Transition Metal Catalysis in Controlled Radical Polymerization: Atom Transfer Radical Polymerization. Chemistry - A European Journal, 1999, 5, 3095-3102.	3.3	238
116	Controlled Radical Polymerization by Degenerative Transfer: Effect of the Structure of the Transfer Agent. Macromolecules, 1995, 28, 8051-8056.	4.8	234
117	Deactivation Efficiency and Degree of Control over Polymerization in ATRP in Protic Solvents. Macromolecules, 2004, 37, 9768-9778.	4.8	234
118	Bioinspired Bottle-Brush Polymer Exhibits Low Friction and Amontons-like Behavior. Journal of the American Chemical Society, 2014, 136, 6199-6202.	13.7	234
119	Molecular Bottlebrushes as Novel Materials. Biomacromolecules, 2019, 20, 27-54.	5.4	230
120	Combining Atom Transfer Radical Polymerization and Disulfide/Thiol Redox Chemistry:Â A Route to Well-Defined (Bio)degradable Polymeric Materials. Macromolecules, 2005, 38, 3087-3092.	4.8	228
121	ICAR ATRP with ppm Cu Catalyst in Water. Macromolecules, 2012, 45, 4461-4468.	4.8	228
122	AGET ATRP in the Presence of Air in Miniemulsion and in Bulk. Macromolecular Rapid Communications, 2006, 27, 594-598.	3.9	225
123	Cyclic voltammetric studies of copper complexes catalyzing atom transfer radical polymerization. Macromolecular Chemistry and Physics, 2000, 201, 1625-1631.	2.2	224
124	Initiation Efficiency in the Synthesis of Molecular Brushes by Grafting from via Atom Transfer Radical Polymerization. Macromolecules, 2005, 38, 702-708.	4.8	224
125	ATRP under Biologically Relevant Conditions: Grafting from a Protein. ACS Macro Letters, 2012, 1, 6-10.	4.8	224
126	Simple and Efficient Synthesis of Various Alkoxyamines for Stable Free Radical Polymerization. Macromolecules, 1998, 31, 5955-5957.	4.8	221

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127	Controlled/â€œLivingâ€•Radical Polymerization of 2-(Dimethylamino)ethyl Methacrylate. Macromolecules, 1998, 31, 5167-5169.	4.8	221
128	Controlled/â€œLivingâ€•Radical Polymerization of Methyl Methacrylate by Atom Transfer Radical Polymerization. Macromolecules, 1997, 30, 2216-2218.	4.8	219
129	Atom Transfer Radical Polymerization of 4-Vinylpyridine. Macromolecules, 1999, 32, 3531-3533.	4.8	219
130	Effect of Initiation Conditions on the Uniformity of Three-Arm Star Molecular Brushes. Macromolecules, 2003, 36, 1843-1849.	4.8	219
131	Catalyst Performance in â€œClickâ€•Coupling Reactions of Polymers Prepared by ATRP:Â Ligand and Metal Effects. Macromolecules, 2006, 39, 6451-6457.	4.8	217
132	Photoinduced Atom Transfer Radical Polymerization with ppm-Level Cu Catalyst by Visible Light in Aqueous Media. Journal of the American Chemical Society, 2015, 137, 15430-15433.	13.7	216
133	Synthesis of Well-Defined Polyacrylonitrile by Atom Transfer Radical Polymerization. Macromolecules, 1997, 30, 6398-6400.	4.8	215
134	Thermodynamic Components of the Atom Transfer Radical Polymerization Equilibrium: Quantifying Solvent Effects. Macromolecules, 2009, 42, 6348-6360.	4.8	215
135	Long-Range Ordered Thin Films of Block Copolymers Prepared by Zone-Casting and Their Thermal Conversion into Ordered Nanostructured Carbon. Journal of the American Chemical Society, 2005, 127, 6918-6919.	13.7	214
136	Controlled/â€œLivingâ€•Radical Polymerization. Atom Transfer Radical Polymerization Catalyzed by Copper(I) and Picolylamine Complexes. Macromolecules, 1999, 32, 2434-2437.	4.8	213
137	Copolymerization ofn-Butyl Acrylate with Methyl Methacrylate and PMMA Macromonomers:Â Comparison of Reactivity Ratios in Conventional and Atom Transfer Radical Copolymerization. Macromolecules, 1999, 32, 8331-8335.	4.8	213
138	Simultaneous Reverse and Normal Initiation in Atom Transfer Radical Polymerization. Macromolecules, 2001, 34, 7664-7671.	4.8	211
139	ATRP of Methyl Methacrylate in the Presence of Ionic Liquids with Ferrous and Cuprous Anions. Macromolecular Chemistry and Physics, 2001, 202, 3379-3391.	2.2	210
140	Atom Transfer Radical Polymerization: Billion Times More Active Catalysts and New Initiation Systems. Macromolecular Rapid Communications, 2019, 40, e1800616.	3.9	208
141	Nonleaching Antibacterial Glass Surfaces via â€œGrafting Ontoâ€•: The Effect of the Number of Quaternary Ammonium Groups on Biocidal Activity. Langmuir, 2008, 24, 6785-6795.	3.5	205
142	Controlled Aqueous Atom Transfer Radical Polymerization with Electrochemical Generation of the Active Catalyst. Angewandte Chemie - International Edition, 2011, 50, 11391-11394.	13.8	205
143	Atom Transfer Radical Polymerization in Supercritical Carbon Dioxide. Macromolecules, 1999, 32, 4802-4805.	4.8	204
144	Pickering Emulsions Stabilized by Nanoparticles with Thermally Responsive Grafted Polymer Brushes. Langmuir, 2010, 26, 15200-15209.	3.5	204

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145	Responsive Gels Based on a Dynamic Covalent Trithiocarbonate Cross-Linker. Macromolecules, 2010, 43, 4355-4361.	4.8	204
146	A Liquidâ€Metalâ€"Elastomer Nanocomposite for Stretchable Dielectric Materials. Advanced Materials, 2019, 31, e1900663.	21.0	204
147	The Synthesis of Hybrid Polymers Using Atom Transfer Radical Polymerization:Â Homopolymers and Block Copolymers from Polyhedral Oligomeric Silsesquioxane Monomers. Macromolecules, 2000, 33, 217-220.	4.8	203
148	Polymerization of acrylates by atom transfer radical polymerization. Homopolymerization of 2-hydroxyethyl acrylate. Journal of Polymer Science Part A, 1998, 36, 1417-1424.	2.3	202
149	ABA triblock copolymers containing polyhedral oligomeric silsesquioxane pendant groups: synthesis and unique properties. Polymer, 2003, 44, 2739-2750.	3.8	200
150	Synthesis of Mesoporous Carbons Using Ordered and Disordered Mesoporous Silica Templates and Polyacrylonitrile as Carbon Precursor. Journal of Physical Chemistry B, 2005, 109, 9216-9225.	2.6	200
151	Kinetics of Atom Transfer Radical Polymerization. European Polymer Journal, 2017, 89, 482-523.	5.4	200
152	Kinetic Study of the Homogeneous Atom Transfer Radical Polymerization of Methyl Methacrylate. Macromolecules, 1997, 30, 6507-6512.	4.8	199
153	Tridentate Nitrogen-Based Ligands in Cu-Based ATRP:â€‰ A Structureâˆ'Activity Study. Macromolecules, 2001, 34, 430-440.	4.8	198
154	On the shape of bottle-brush macromolecules: Systematic variation of architectural parameters. Journal of Chemical Physics, 2005, 122, 124904.	3.0	198
155	Single Molecule Rodâˆ'Globule Phase Transition for Brush Molecules at a Flat Interface. Macromolecules, 2001, 34, 8354-8360.	4.8	196
156	Controlled/Living Radical Polymerization of Vinyl Acetate by Degenerative Transfer with Alkyl Iodides. Macromolecules, 2003, 36, 9346-9354.	4.8	195
157	Molecular brushes as super-soft elastomers. Polymer, 2006, 47, 7198-7206.	3.8	194
158	Solution processable liquid metal nanodroplets by surface-initiated atom transfer radical polymerization. Nature Nanotechnology, 2019, 14, 684-690.	31.5	191
159	Recyclable Antibacterial Magnetic Nanoparticles Grafted with Quaternized Poly(2-(dimethylamino)ethyl methacrylate) Brushes. Biomacromolecules, 2011, 12, 1305-1311.	5.4	190
160	Preparation of Hyperbranched Polyacrylates by Atom Transfer Radical Polymerization. 2. Kinetics and Mechanism of Chain Growth for the Self-Condensing Vinyl Polymerization of 2-((2-Bromopropionyl)oxy)ethyl Acrylate. Macromolecules, 1997, 30, 7034-7041.	4.8	189
161	Aqueous RDRP in the Presence of Cu⁰: The Exceptional Activity of Cu^I Confirms the SARA ATRP Mechanism. Macromolecules, 2014, 47, 560-570.	4.8	187
162	An Investigation into the CuX/2,2â€˜-Bipyridine (X = Br or Cl) Mediated Atom Transfer Radical Polymerization of Acrylonitrile. Macromolecules, 1999, 32, 6431-6438.	4.8	185

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163	Controlled polymerization of (meth)acrylamides by atom transfer radical polymerization. Macromolecular Rapid Communications, 2000, 21, 190-194.	3.9	185
164	ARGET ATRP of 2-(Dimethylamino)ethyl Methacrylate as an Intrinsic Reducing Agent. Macromolecules, 2008, 41, 6868-6870.	4.8	185
165	Synthesis of Well-Defined Microporous Carbons by Molecular-Scale Templating with Polyhedral Oligomeric Silsesquioxane Moieties. Journal of the American Chemical Society, 2014, 136, 4805-4808.	13.7	185
166	Understanding the Fundamentals of Aqueous ATRP and Defining Conditions for Better Control. Macromolecules, 2015, 48, 6862-6875.	4.8	184
167	Synthesis of Molecular Brushes with Gradient in Grafting Density by Atom Transfer Polymerization. Macromolecules, 2002, 35, 3387-3394.	4.8	183
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