

# Krzysztof Matyjaszewski

## List of Publications by Year in descending order

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Version: 2024-02-01

1,245  
papers

138,788  
citations

90

172  
h-index

229

315  
g-index

1376  
all docs

1376  
docs citations

1376  
times ranked

45841  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Atom Transfer Radical Polymerization. <i>Chemical Reviews</i> , 2001, 101, 2921-2990.   | 23.0 | 7,245     |
| 2  | Controlled/"living" radical polymerization. atom transfer radical polymerization in the presence of transition-metal complexes. <i>Journal of the American Chemical Society</i> , 1995, 117, 5614-5615.   | 6.6  | 4,406     |
| 3  | Controlled/living radical polymerization: Features, developments, and perspectives. <i>Progress in Polymer Science</i> , 2007, 32, 93-146.  | 11.8 | 2,906     |
| 4  | Atom Transfer Radical Polymerization (ATRP): Current Status and Future Perspectives. <i>Macromolecules</i> , 2012, 45, 4015-4039.   | 2.2  | 2,260     |
| 5  | Controlled/"Living" Radical Polymerization. Halogen Atom Transfer Radical Polymerization Promoted by a Cu(I)/Cu(II) Redox Process. <i>Macromolecules</i> , 1995, 28, 7901-7910.   | 2.2  | 1,618     |
| 6  | Design and Preparation of Porous Polymers. <i>Chemical Reviews</i> , 2012, 112, 3959-4015.  | 23.0 | 1,491     |
| 7  | The development of microgels/nanogels for drug delivery applications. <i>Progress in Polymer Science</i> , 2008, 33, 448-477.   | 11.8 | 1,419     |
| 8  | Functional polymers by atom transfer radical polymerization. <i>Progress in Polymer Science</i> , 2001, 26, 337-377.  | 11.8 | 1,205     |
| 9  | "Green" Atom Transfer Radical Polymerization: From Process Design to Preparation of Well-Defined Environmentally Friendly Polymeric Materials. <i>Chemical Reviews</i> , 2007, 107, 2270-2299.  | 23.0 | 1,204     |
| 10 | Nanostructured functional materials prepared by atom transfer radical polymerization. <i>Nature Chemistry</i> , 2009, 1, 276-288.   | 6.6  | 1,177     |
| 11 | Macromolecular Engineering by Atom Transfer Radical Polymerization. <i>Journal of the American Chemical Society</i> , 2014, 136, 6513-6533.   | 6.6  | 1,036     |
| 12 | Cylindrical molecular brushes: Synthesis, characterization, and properties. <i>Progress in Polymer Science</i> , 2008, 33, 759-785.   | 11.8 | 1,035     |
| 13 | Polymers at Interfaces: Using Atom Transfer Radical Polymerization in the Controlled Growth of Homopolymers and Block Copolymers from Silicon Surfaces in the Absence of Untethered Sacrificial Initiator. <i>Macromolecules</i> , 1999, 32, 8716-8724. | 2.2  | 934       |
| 14 | Controlled/"Living" Radical Polymerization. Kinetics of the Homogeneous Atom Transfer Radical Polymerization of Styrene. <i>Journal of the American Chemical Society</i> , 1997, 119, 674-680.  | 6.6  | 856       |
| 15 | Atom Transfer Radical Polymerization and the Synthesis of Polymeric Materials. <i>Advanced Materials</i> , 1998, 10, 901-915.   | 11.1 | 855       |
| 16 | Diminishing catalyst concentration in atom transfer radical polymerization with reducing agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15309-15314.                                       | 3.3  | 799       |
| 17 | Marrying click chemistry with polymerization: expanding the scope of polymeric materials. <i>Chemical Society Reviews</i> , 2010, 39, 1338-1354.  | 18.7 | 753       |
| 18 | Synthesis of functional polymers with controlled architecture by CRP of monomers in the presence of cross-linkers: From stars to gels. <i>Progress in Polymer Science</i> , 2009, 34, 317-350.  | 11.8 | 741       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | From precision polymers to complex materials and systems. <i>Nature Reviews Materials</i> , 2016, 1, .  | 23.3 | 725       |
| 20 | Electrochemically Mediated Atom Transfer Radical Polymerization. <i>Science</i> , 2011, 332, 81-84.   | 6.0  | 724       |
| 21 | Activators Regenerated by Electron Transfer for Atom Transfer Radical Polymerization of Styrene. <i>Macromolecules</i> , 2006, 39, 39-45.   | 2.2  | 715       |
| 22 | Synthesis of Nanocomposite Organic/Inorganic Hybrid Materials Using Controlled/Living Radical Polymerization. <i>Chemistry of Materials</i> , 2001, 13, 3436-3448.  | 3.2  | 681       |
| 23 | Synthesis of Polymer Brushes Using Atom Transfer Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2003, 24, 1043-1059.  | 2.0  | 665       |
| 24 | Atom transfer radical addition and polymerization reactions catalyzed by ppm amounts of copper complexes. <i>Chemical Society Reviews</i> , 2008, 37, 1087.   | 18.7 | 658       |
| 25 | Permanent, non-leaching antibacterial surfaces <sup>2</sup> : How high density cationic surfaces kill bacterial cells. <i>Biomaterials</i> , 2007, 28, 4870-4879.   | 5.7  | 639       |
| 26 | Grafting from Surfaces for "Everyone" ARGET ATRP in the Presence of Air. <i>Langmuir</i> , 2007, 23, 4528-4531.   | 1.6  | 603       |
| 27 | Stimuli-responsive molecular brushes. <i>Progress in Polymer Science</i> , 2010, 35, 24-44.   | 11.8 | 600       |
| 28 | Controlled/living radical polymerization in aqueous media: homogeneous and heterogeneous systems. <i>Progress in Polymer Science</i> , 2001, 26, 2083-2134.   | 11.8 | 588       |
| 29 | Activators Regenerated by Electron Transfer for Atom-Transfer Radical Polymerization of (Meth)acrylates and Related Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4482-4486. | 7.2  | 587       |
| 30 | Self-Healing of Covalently Cross-Linked Polymers by Reshuffling Thiuram Disulfide Moieties in Air under Visible Light. <i>Advanced Materials</i> , 2012, 24, 3975-3980.                                       | 11.1 | 585       |
| 31 | Synthesis of Molecular Brushes by "Grafting onto" Method: Combination of ATRP and Click Reactions. <i>Journal of the American Chemical Society</i> , 2007, 129, 6633-6639.                                    | 6.6  | 559       |
| 32 | Reversible-deactivation radical polymerization (Controlled/living radical polymerization): From discovery to materials design and applications. <i>Progress in Polymer Science</i> , 2020, 111, 101311.       | 11.8 | 555       |
| 33 | Photomediated controlled radical polymerization. <i>Progress in Polymer Science</i> , 2016, 62, 73-125.   | 11.8 | 537       |
| 34 | The Synthesis of Densely Grafted Copolymers by Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 1998, 31, 9413-9415.   | 2.2  | 531       |
| 35 | Permanent, Nonleaching Antibacterial Surfaces. 1. Synthesis by Atom Transfer Radical Polymerization. <i>Biomacromolecules</i> , 2004, 5, 877-882.   | 2.6  | 522       |
| 36 | Activator Generated by Electron Transfer for Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2005, 38, 4139-4146.   | 2.2  | 521       |

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|----|---|------|-----------|
| 37 | Visible Light and Sunlight Photoinduced ATRP with ppm of Cu Catalyst. ACS Macro Letters, 2012, 1, 1219-1223.  | 2.3  | 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.   | 6.6  | 511       |
| 39 | ATRP in the design of functional materials for biomedical applications. Progress in Polymer Science, 2012, 37, 18-37.   | 11.8 | 506       |
| 40 | Polymer-Derived Heteroatom-Doped Porous Carbon Materials. Chemical Reviews, 2020, 120, 9363-9419.   | 23.0 | 492       |
| 41 | Repeatable Photoinduced Self-Healing of Covalently Cross-Linked Polymers through Reshuffling of Trithiocarbonate Units. Angewandte Chemie - International Edition, 2011, 50, 1660-1663.   | 7.2  | 488       |
| 42 | Ionic Strength and Composition Affect the Mobility of Surface-Modified Fe <sup>0</sup> Nanoparticles in Water-Saturated Sand Columns. Environmental Science & Technology, 2008, 42, 3349-3355.  | 4.6  | 478       |
| 43 | Synthesis of Branched and Hyperbranched Polystyrenes. Macromolecules, 1996, 29, 1079-1081.  | 2.2  | 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.   | 2.2  | 461       |
| 45 | Transition metal catalysts for controlled radical polymerization. Progress in Polymer Science, 2010, 35, 959-1021.  | 11.8 | 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.  | 6.6  | 460       |
| 47 | Advanced Materials by Atom Transfer Radical Polymerization. Advanced Materials, 2018, 30, e1706441.   | 11.1 | 456       |
| 48 | Biodegradable Nanogels Prepared by Atom Transfer Radical Polymerization as Potential Drug Delivery Carriers: Synthesis, Biodegradation, in Vitro Release, and Bioconjugation. Journal of the American Chemical Society, 2007, 129, 5939-5945. | 6.6  | 449       |
| 49 | Controlled/Living Radical Polymerization. Atom Transfer Radical Polymerization Using Multidentate Amine Ligands. Macromolecules, 1997, 30, 7697-7700.   | 2.2  | 447       |
| 50 | Highly Efficient Click-Functionalization of Poly(3-azidopropyl methacrylate) Prepared by ATRP. Macromolecules, 2005, 38, 7540-7545.   | 2.2  | 438       |
| 51 | Synthesis of Star Polymers by a Combination of ATRP and the Click-Coupling Method. Macromolecules, 2006, 39, 4960-4965.   | 2.2  | 435       |
| 52 | Solvent-free, supersoft and superelastic bottlebrush melts and networks. Nature Materials, 2016, 15, 183-189.   | 13.3 | 428       |
| 53 | Step-Growth Click-Coupling of Telechelic Polymers Prepared by Atom Transfer Radical Polymerization. Macromolecules, 2005, 38, 3558-3561.  | 2.2  | 427       |
| 54 | Self-Healing Polymer Films Based on Thiol-Disulfide Exchange Reactions and Self-Healing Kinetics Measured Using Atomic Force Microscopy. Macromolecules, 2012, 45, 142-149.   | 2.2  | 407       |

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|----|---|------|-----------|
| 55 | Gradient copolymers by atom transfer radical copolymerization. <i>Journal of Physical Organic Chemistry</i> , 2000, 13, 775-786.  | 0.9  | 405       |
| 56 | Surface Modifications Enhance Nanoiron Transport and NAPL Targeting in Saturated Porous Media. <i>Environmental Engineering Science</i> , 2007, 24, 45-57.  | 0.8  | 403       |
| 57 | Controlled/living radical polymerization. <i>Materials Today</i> , 2005, 8, 26-33.  | 8.3  | 401       |
| 58 | Synthesis of Molecular Brushes with Block Copolymer Side Chains Using Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2001, 34, 4375-4383.  | 2.2  | 400       |
| 59 | Copper(I)-Catalyzed Atom Transfer Radical Polymerization. <i>Accounts of Chemical Research</i> , 1999, 32, 895-903.   | 7.6  | 393       |
| 60 | Mechanism of Photoinduced Metal-Free Atom Transfer Radical Polymerization: Experimental and Computational Studies. <i>Journal of the American Chemical Society</i> , 2016, 138, 2411-2425.                                | 6.6  | 384       |
| 61 | Synthesis and Characterization of Star Polymers with Varying Arm Number, Length, and Composition from Organic and Hybrid Inorganic/Organic Multifunctional Initiators. <i>Macromolecules</i> , 1999, 32, 6526-6535.       | 2.2  | 380       |
| 62 | Macromolecular engineering: From rational design through precise macromolecular synthesis and processing to targeted macroscopic material properties. <i>Progress in Polymer Science</i> , 2005, 30, 858-875.             | 11.8 | 378       |
| 63 | Controlled/“Living” Radical Polymerization of Styrene and Methyl Methacrylate Catalyzed by Iron Complexes <sup>1</sup> . <i>Macromolecules</i> , 1997, 30, 8161-8164.   | 2.2  | 375       |
| 64 | Light-Induced Reversible Formation of Polymeric Micelles. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2453-2457.   | 7.2  | 368       |
| 65 | Controlled/“Living” Radical Polymerization. Atom Transfer Radical Polymerization of Acrylates at Ambient Temperature. <i>Macromolecules</i> , 1998, 31, 5958-5959.  | 2.2  | 367       |
| 66 | Optimization of Atom Transfer Radical Polymerization Using Cu(I)/Tris(2-(dimethylamino)ethyl)amine as a Catalyst. <i>Macromolecules</i> , 2000, 33, 8629-8639.  | 2.2  | 363       |
| 67 | Utilizing Halide Exchange To Improve Control of Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 1998, 31, 6836-6840.  | 2.2  | 360       |
| 68 | Electrochemically Active Nitrogen-Enriched Nanocarbons with Well-Defined Morphology Synthesized by Pyrolysis of Self-Assembled Block Copolymer. <i>Journal of the American Chemical Society</i> , 2012, 134, 14846-14857. | 6.6  | 354       |
| 69 | Use of Ascorbic Acid as Reducing Agent for Synthesis of Well-Defined Polymers by ARGET ATRP. <i>Macromolecules</i> , 2007, 40, 1789-1791.   | 2.2  | 351       |
| 70 | Adsorption-induced scission of carbon-carbon bonds. <i>Nature</i> , 2006, 440, 191-194.   | 18.7 | 341       |
| 71 | Synthesis of Acrylate and Methacrylate Block Copolymers Using Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 1998, 31, 8005-8008.  | 2.2  | 336       |
| 72 | Surface-Initiated Polymerization as an Enabling Tool for Multifunctional (Nano-)Engineered Hybrid Materials. <i>Chemistry of Materials</i> , 2014, 26, 745-762.   | 3.2  | 333       |

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|----|--|------|-----------|
| 73 | AqueousARGET ATRP. <i>Macromolecules</i> , 2012, 45, 6371-6379.  | 2.2  | 331       |
| 74 | Atom Transfer Radical Polymerization of (Meth)acrylamides. <i>Macromolecules</i> , 1999, 32, 4826-4831.  | 2.2  | 329       |
| 75 | Preparation of Hyperbranched Polyacrylates by Atom Transfer Radical Polymerization. 1. Acrylic AB* Monomers in "Living" Radical Polymerizations. <i>Macromolecules</i> , 1997, 30, 5192-5194.  | 2.2  | 328       |
| 76 | Synthesis and Characterization of Organic/Inorganic Hybrid Nanoparticles: Kinetics of Surface-Initiated Atom Transfer Radical Polymerization and Morphology of Hybrid Nanoparticle Ultrathin Films. <i>Macromolecules</i> , 2003, 36, 5094-5104. | 2.2  | 328       |
| 77 | Densely-Grafted and Double-Grafted PEO Brushes via ATRP. A Route to Soft Elastomers. <i>Macromolecules</i> , 2003, 36, 6746-6755.  | 2.2  | 322       |
| 78 | Inverse Miniemulsion ATRP: A New Method for Synthesis and Functionalization of Well-Defined Water-Soluble/Cross-Linked Polymeric Particles. <i>Journal of the American Chemical Society</i> , 2006, 128, 5578-5584.                              | 6.6  | 313       |
| 79 | Controlled Radical Polymerizations: The Use of Alkyl Iodides in Degenerative Transfer. <i>Macromolecules</i> , 1995, 28, 2093-2095.  | 2.2  | 311       |
| 80 | Molecular Parameters of Hyperbranched Polymers Made by Self-Condensing Vinyl Polymerization. 2. Degree of Branching. <i>Macromolecules</i> , 1997, 30, 7024-7033.  | 2.2  | 302       |
| 81 | Adsorbed Triblock Copolymers Deliver Reactive Iron Nanoparticles to the Oil/Water Interface. <i>Nano Letters</i> , 2005, 5, 2489-2494.   | 4.5  | 302       |
| 82 | Zerovalent Metals in Controlled/"Living" Radical Polymerization. <i>Macromolecules</i> , 1997, 30, 7348-7350.  | 2.2  | 301       |
| 83 | Synthesis of Uniform Protein-Polymer Conjugates. <i>Biomacromolecules</i> , 2005, 6, 3380-3387.  | 2.6  | 300       |
| 84 | Antibacterial Polypropylene via Surface-Initiated Atom Transfer Radical Polymerization. <i>Biomacromolecules</i> , 2007, 8, 1396-1399.   | 2.6  | 298       |
| 85 | Atom Transfer Radical Polymerization of tert-Butyl Acrylate and Preparation of Block Copolymers. <i>Macromolecules</i> , 2000, 33, 4039-4047.  | 2.2  | 295       |
| 86 | Electrochemically mediated atom transfer radical polymerization (eATRP). <i>Progress in Polymer Science</i> , 2017, 69, 47-78.   | 11.8 | 295       |
| 87 | Photoinduced Metal-Free Atom Transfer Radical Polymerization of Acrylonitrile. <i>ACS Macro Letters</i> , 2015, 4, 192-196.  | 2.3  | 292       |
| 88 | Externally controlled atom transfer radical polymerization. <i>Chemical Society Reviews</i> , 2018, 47, 5457-5490.   | 18.7 | 290       |
| 89 | Mimicking biological stress-strain behaviour with synthetic elastomers. <i>Nature</i> , 2017, 549, 497-501.  | 13.7 | 286       |
| 90 | Atom Transfer Radical Polymerization of 2-Hydroxyethyl Methacrylate. <i>Macromolecules</i> , 1999, 32, 5772-5776.  | 2.2  | 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. <i>Macromolecules</i> , 2013, 46, 8749-8772.  | 2.2 | 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. <i>Journal of the American Chemical Society</i> , 2008, 130, 12762-12774. | 6.6 | 274       |
| 93  | Synthesis of Star-Shaped Polystyrene by Atom Transfer Radical Polymerization Using an "Arm First" Approach. <i>Macromolecules</i> , 1999, 32, 4482-4484.  | 2.2 | 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. <i>Macromolecules</i> , 2007, 40, 4439-4445.   | 2.2 | 270       |
| 96  | Architecturally Complex Polymers with Controlled Heterogeneity. <i>Science</i> , 2011, 333, 1104-1105.  | 6.0 | 270       |
| 97  | Determination of Equilibrium Constants for Atom Transfer Radical Polymerization. <i>Journal of the American Chemical Society</i> , 2006, 128, 1598-1604.  | 6.6 | 269       |
| 98  | Role of Cu <sup>0</sup> in Controlled/"Living" Radical Polymerization. <i>Macromolecules</i> , 2007, 40, 7795-7806.   | 2.2 | 268       |
| 99  | SARA ATRP or SET-LRP. End of controversy?. <i>Polymer Chemistry</i> , 2014, 5, 4409.  | 1.9 | 266       |
| 100 | Effects of Initiator Structure on Activation Rate Constants in ATRP. <i>Macromolecules</i> , 2007, 40, 1858-1863.   | 2.2 | 265       |
| 101 | Stereoblock Copolymers and Tacticity Control in Controlled/Living Radical Polymerization. <i>Journal of the American Chemical Society</i> , 2003, 125, 6986-6993.   | 6.6 | 264       |
| 102 | Structural aspects of copper catalyzed atom transfer radical polymerization. <i>Coordination Chemistry Reviews</i> , 2005, 249, 1155-1184.  | 9.5 | 264       |
| 103 | How are Radicals (Re)Generated in Photochemical ATRP?. <i>Journal of the American Chemical Society</i> , 2014, 136, 13303-13312.  | 6.6 | 263       |
| 104 | ATRP Synthesis of Amphiphilic Random, Gradient, and Block Copolymers of 2-(Dimethylamino)ethyl Methacrylate and n-Butyl Methacrylate in Aqueous Media. <i>Biomacromolecules</i> , 2003, 4, 1386-1393.   | 2.6 | 259       |
| 105 | End-Functional Poly(tert-butyl acrylate) Star Polymers by Controlled Radical Polymerization. <i>Macromolecules</i> , 2000, 33, 2340-2345.   | 2.2 | 256       |
| 106 | Controlled/"Living" Atom Transfer Radical Polymerization of Methyl Methacrylate Using Various Initiation Systems. <i>Macromolecules</i> , 1998, 31, 1527-1534.  | 2.2 | 254       |
| 107 | Controlled/"Living" Radical Polymerization. Homogeneous Reverse Atom Transfer Radical Polymerization Using AIBN as the Initiator. <i>Macromolecules</i> , 1997, 30, 7692-7696.  | 2.2 | 253       |
| 108 | Polymerization of n-Butyl Acrylate by Atom Transfer Radical Polymerization. Remarkable Effect of Ethylene Carbonate and Other Solvents. <i>Macromolecules</i> , 1998, 31, 1535-1541.  | 2.2 | 252       |

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|-----|---|-----|-----------|
| 109 | Reversible Redox Cleavage/Coupling of Polystyrene with Disulfide or Thiol Groups Prepared by Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2002, 35, 9009-9014.               | 2.2 | 251       |
| 110 | Nanostructured Carbon Arrays from Block Copolymers of Polyacrylonitrile. <i>Journal of the American Chemical Society</i> , 2002, 124, 10632-10633.  | 6.6 | 249       |
| 111 | "Living" radical polymerization. 1. Possibilities and limitations. <i>Macromolecules</i> , 1994, 27, 638-644.   | 2.2 | 243       |
| 112 | Effect of Ligand Structure on Activation Rate Constants in ATRP. <i>Macromolecules</i> , 2006, 39, 4953-4959.   | 2.2 | 243       |
| 113 | Influence of the degree of methacrylation on hyaluronic acid hydrogels properties. <i>Biomaterials</i> , 2008, 29, 1739-1749.   | 5.7 | 242       |
| 114 | Mechanism of Controlled/Living Radical Polymerization of Styrene in the Presence of Nitroxyl Radicals. Kinetics and Simulations. <i>Macromolecules</i> , 1996, 29, 7661-7670.                 | 2.2 | 240       |
| 115 | Transition Metal Catalysis in Controlled Radical Polymerization: Atom Transfer Radical Polymerization. <i>Chemistry - A European Journal</i> , 1999, 5, 3095-3102.                            | 1.7 | 238       |
| 116 | Controlled Radical Polymerization by Degenerative Transfer: Effect of the Structure of the Transfer Agent. <i>Macromolecules</i> , 1995, 28, 8051-8056.                                       | 2.2 | 234       |
| 117 | Deactivation Efficiency and Degree of Control over Polymerization in ATRP in Protic Solvents. <i>Macromolecules</i> , 2004, 37, 9768-9778.  | 2.2 | 234       |
| 118 | Bioinspired Bottle-Brush Polymer Exhibits Low Friction and Amontons-like Behavior. <i>Journal of the American Chemical Society</i> , 2014, 136, 6199-6202.                                    | 6.6 | 234       |
| 119 | Molecular Bottlebrushes as Novel Materials. <i>Biomacromolecules</i> , 2019, 20, 27-54.   | 2.6 | 230       |
| 120 | Combining Atom Transfer Radical Polymerization and Disulfide/Thiol Redox Chemistry: A Route to Well-Defined (Bio)degradable Polymeric Materials. <i>Macromolecules</i> , 2005, 38, 3087-3092. | 2.2 | 228       |
| 121 | ICAR ATRP with ppm Cu Catalyst in Water. <i>Macromolecules</i> , 2012, 45, 4461-4468.   | 2.2 | 228       |
| 122 | AGET ATRP in the Presence of Air in Miniemulsion and in Bulk. <i>Macromolecular Rapid Communications</i> , 2006, 27, 594-598.   | 2.0 | 225       |
| 123 | Cyclic voltammetric studies of copper complexes catalyzing atom transfer radical polymerization. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 1625-1631.                          | 1.1 | 224       |
| 124 | Initiation Efficiency in the Synthesis of Molecular Brushes by Grafting from via Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2005, 38, 702-708.                             | 2.2 | 224       |
| 125 | ATRP under Biologically Relevant Conditions: Grafting from a Protein. <i>ACS Macro Letters</i> , 2012, 1, 6-10.   | 2.3 | 224       |
| 126 | Simple and Efficient Synthesis of Various Alkoxyamines for Stable Free Radical Polymerization. <i>Macromolecules</i> , 1998, 31, 5955-5957.   | 2.2 | 221       |



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|-----|--|-----|-----------|
| 127 | Controlled/"Living" Radical Polymerization of 2-(Dimethylamino)ethyl Methacrylate. <i>Macromolecules</i> , 1998, 31, 5167-5169.  | 2.2 | 221       |
| 128 | Controlled/"Living" Radical Polymerization of Methyl Methacrylate by Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 1997, 30, 2216-2218.  | 2.2 | 219       |
| 129 | Atom Transfer Radical Polymerization of 4-Vinylpyridine. <i>Macromolecules</i> , 1999, 32, 3531-3533.  | 2.2 | 219       |
| 130 | Effect of Initiation Conditions on the Uniformity of Three-Arm Star Molecular Brushes. <i>Macromolecules</i> , 2003, 36, 1843-1849.  | 2.2 | 219       |
| 131 | Catalyst Performance in "Click" Coupling Reactions of Polymers Prepared by ATRP: Ligand and Metal Effects. <i>Macromolecules</i> , 2006, 39, 6451-6457.  | 2.2 | 217       |
| 132 | Photoinduced Atom Transfer Radical Polymerization with ppm-Level Cu Catalyst by Visible Light in Aqueous Media. <i>Journal of the American Chemical Society</i> , 2015, 137, 15430-15433.  | 6.6 | 216       |
| 133 | Synthesis of Well-Defined Polyacrylonitrile by Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 1997, 30, 6398-6400.  | 2.2 | 215       |
| 134 | Thermodynamic Components of the Atom Transfer Radical Polymerization Equilibrium: Quantifying Solvent Effects. <i>Macromolecules</i> , 2009, 42, 6348-6360.  | 2.2 | 215       |
| 135 | Long-Range Ordered Thin Films of Block Copolymers Prepared by Zone-Casting and Their Thermal Conversion into Ordered Nanostructured Carbon. <i>Journal of the American Chemical Society</i> , 2005, 127, 6918-6919.                      | 6.6 | 214       |
| 136 | Controlled/"Living" Radical Polymerization. Atom Transfer Radical Polymerization Catalyzed by Copper(I) and Picolylamine Complexes. <i>Macromolecules</i> , 1999, 32, 2434-2437.   | 2.2 | 213       |
| 137 | Copolymerization of <i>n</i> -Butyl Acrylate with Methyl Methacrylate and PMMA Macromonomers: A Comparison of Reactivity Ratios in Conventional and Atom Transfer Radical Copolymerization. <i>Macromolecules</i> , 1999, 32, 8331-8335. | 2.2 | 213       |
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