Jiangtao Xu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Robust and Versatile Photoinduced Living Polymerization of Conjugated and Unconjugated Monomers and Its Oxygen Tolerance. Journal of the American Chemical Society, 2014, 136, 5508-5519.	6.6	801
2	Star Polymers. Chemical Reviews, 2016, 116, 6743-6836.	23.0	653
3	Photocatalysis in organic and polymer synthesis. Chemical Society Reviews, 2016, 45, 6165-6212.	18.7	587
4	Seeing the Light: Advancing Materials Chemistry through Photopolymerization. Angewandte Chemie - International Edition, 2019, 58, 5170-5189.	7.2	444
5	Exploiting Metalloporphyrins for Selective Living Radical Polymerization Tunable over Visible Wavelengths. Journal of the American Chemical Society, 2015, 137, 9174-9185.	6.6	427
6	Organo-photocatalysts for photoinduced electron transfer-reversible addition–fragmentation chain transfer (PET-RAFT) polymerization. Polymer Chemistry, 2015, 6, 5615-5624.	1.9	368
7	Lightâ€Regulated Polymerization under Nearâ€Infrared/Farâ€Red Irradiation Catalyzed by Bacteriochlorophyllâ€ <i>a</i> . Angewandte Chemie - International Edition, 2016, 55, 1036-1040.	7.2	294
8	Oxygen Tolerance Study of Photoinduced Electron Transfer–Reversible Addition–Fragmentation Chain Transfer (PET-RAFT) Polymerization Mediated by Ru(bpy) ₃ Cl ₂ . Macromolecules, 2014, 47, 4217-4229.	2.2	270
9	Selective Photoactivation: From a Single Unit Monomer Insertion Reaction to Controlled Polymer Architectures. Journal of the American Chemical Society, 2016, 138, 3094-3106.	6.6	250
10	Beyond Traditional RAFT: Alternative Activation of Thiocarbonylthio Compounds for Controlled Polymerization. Advanced Science, 2016, 3, 1500394.	5.6	249
11	Polymerization-Induced Self-Assembly Using Visible Light Mediated Photoinduced Electron Transfer–Reversible Addition–Fragmentation Chain Transfer Polymerization. ACS Macro Letters, 2015, 4, 984-990.	2.3	235
12	Utilizing the electron transfer mechanism of chlorophyll a under light for controlled radical polymerization. Chemical Science, 2015, 6, 1341-1349.	3.7	218
13	Photoinduced Electron Transfer–Reversible Addition–Fragmentation Chain Transfer (PET-RAFT) Polymerization of Vinyl Acetate and <i>N</i> -Vinylpyrrolidinone: Kinetic and Oxygen Tolerance Study. Macromolecules, 2014, 47, 4930-4942.	2.2	216
14	Aqueous photoinduced living/controlled polymerization: tailoring for bioconjugation. Chemical Science, 2014, 5, 3568.	3.7	196
15	Oxygen Tolerance in Living Radical Polymerization: Investigation of Mechanism and Implementation in Continuous Flow Polymerization. Macromolecules, 2016, 49, 6779-6789.	2.2	188
16	Oxygen tolerant photopolymerization for ultralow volumes. Polymer Chemistry, 2017, 8, 5012-5022.	1.9	187
17	Photoacid-mediated ring opening polymerization driven by visible light. Chemical Communications, 2016, 52, 7126-7129.	2.2	182
18	PET-RAFT polymerisation: towards green and precision polymer manufacturing. Chemical Communications, 2018, 54, 6591-6606.	2.2	171

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19	Aminolysis of Polymers with Thiocarbonylthio Termini Prepared by RAFT Polymerization:  The Difference between Polystyrene and Polymethacrylates. Macromolecules, 2006, 39, 8616-8624.	2.2	166
20	Synthesis of Discrete Oligomers by Sequential PETâ€RAFT Singleâ€Unit Monomer Insertion. Angewandte Chemie - International Edition, 2017, 56, 8376-8383.	7.2	165
21	Combining Thioâ^'Bromo "Click―Chemistry and RAFT Polymerization: A Powerful Tool for Preparing Functionalized Multiblock and Hyperbranched Polymers. Macromolecules, 2010, 43, 20-24.	2.2	153
22	Visible Light Photocatalytic Thiol–Ene Reaction: An Elegant Approach for Fast Polymer Postfunctionalization and Step-Growth Polymerization. Macromolecules, 2015, 48, 520-529.	2.2	147
23	Application of oxygen tolerant PET-RAFT to polymerization-induced self-assembly. Polymer Chemistry, 2017, 8, 2841-2851.	1.9	142
24	A Polymerization-Induced Self-Assembly Approach to Nanoparticles Loaded with Singlet Oxygen Generators. Macromolecules, 2016, 49, 7277-7285.	2.2	135
25	Photocontrolled Living Polymerization Systems with Reversible Deactivations through Electron and Energy Transfer. Macromolecular Rapid Communications, 2017, 38, 1700143.	2.0	133
26	Controlling Molecular Weight Distributions through Photoinduced Flow Polymerization. Macromolecules, 2017, 50, 8438-8448.	2.2	132
27	Designing with Light: Advanced 2D, 3D, and 4D Materials. Advanced Materials, 2020, 32, e1903850.	11.1	125
28	Aqueous RAFT Photopolymerization with Oxygen Tolerance. Macromolecules, 2016, 49, 9345-9357.	2.2	121
29	Covalent fixing of sulfur in metal–sulfur batteries. Energy and Environmental Science, 2020, 13, 432-471.	15.6	118
30	A Photoinitiation System for Conventional and Controlled Radical Polymerization at Visible and NIR Wavelengths. Macromolecules, 2016, 49, 3274-3285.	2.2	116
31	Discrete and Stereospecific Oligomers Prepared by Sequential and Alternating Single Unit Monomer Insertion. Journal of the American Chemical Society, 2018, 140, 13392-13406.	6.6	110
32	Seeing the Light: Advancing Materials Chemistry through Photopolymerization. Angewandte Chemie, 2019, 131, 5224-5243.	1.6	108
33	Thermal Decomposition of Dithioesters and Its Effect on RAFT Polymerization. Macromolecules, 2006, 39, 3753-3759.	2.2	107
34	Catalyst-Free Visible Light-Induced RAFT Photopolymerization. ACS Symposium Series, 2015, , 247-267.	0.5	107
35	Guiding the Design of Organic Photocatalyst for PET-RAFT Polymerization: Halogenated Xanthene Dyes. Macromolecules, 2019, 52, 236-248.	2.2	105
36	Copolymers with Controlled Molecular Weight Distributions and Compositional Gradients through Flow Polymerization. Macromolecules, 2018, 51, 4553-4563.	2.2	104

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37	2-(Methylthio)ethyl Methacrylate: A Versatile Monomer for Stimuli Responsiveness and Polymerization-Induced Self-Assembly in the Presence of Air. ACS Macro Letters, 2017, 6, 1237-1244.	2.3	101
38	Hierarchically Porous Biocatalytic MOF Microreactor as a Versatile Platform towards Enhanced Multienzyme and Cofactorâ€Dependent Biocatalysis. Angewandte Chemie - International Edition, 2021, 60, 5421-5428.	7.2	98
39	Computer-Guided Discovery of a pH-Responsive Organic Photocatalyst and Application for pH and Light Dual-Gated Polymerization. Journal of the American Chemical Society, 2019, 141, 8207-8220.	6.6	89
40	Synthesis and bioactivity of poly(HPMA)–lysozyme conjugates: the use of novel thiazolidine-2-thione coupling chemistry. Organic and Biomolecular Chemistry, 2009, 7, 3481.	1.5	88
41	Polymer Synthesis in Continuous Flow Reactors. Progress in Polymer Science, 2020, 107, 101256.	11.8	87
42	Biocompatible and Highly Stretchable PVA/AgNWs Hydrogel Strain Sensors for Human Motion Detection. Advanced Materials Technologies, 2020, 5, 2000426.	3.0	83
43	Visible-Light-Regulated Controlled/Living Radical Polymerization in Miniemulsion. ACS Macro Letters, 2015, 4, 1139-1143.	2.3	80
44	Organic Electron Donor–Acceptor Photoredox Catalysts: Enhanced Catalytic Efficiency toward Controlled Radical Polymerization. ACS Macro Letters, 2015, 4, 926-932.	2.3	79
45	One-Pot Synthesis of Block Copolymers by Orthogonal Ring-Opening Polymerization and PET-RAFT Polymerization at Ambient Temperature. ACS Macro Letters, 2016, 5, 444-449.	2.3	74
46	Biocatalytic self-propelled submarine-like metal-organic framework microparticles with pH-triggered buoyancy control for directional vertical motion. Materials Today, 2019, 28, 10-16.	8.3	73
47	Oxygen Tolerant PET-RAFT Facilitated 3D Printing of Polymeric Materials under Visible LEDs. ACS Applied Polymer Materials, 2020, 2, 782-790.	2.0	73
48	Synthesis of dendritic carbohydrate endâ€functional polymers via RAFT: Versatile multiâ€functional precursors for bioconjugations. Journal of Polymer Science Part A, 2009, 47, 4302-4313.	2.5	72
49	Photoinduced Oxygen Reduction for Dark Polymerization. Macromolecules, 2017, 50, 1832-1846.	2.2	72
50	Thermal Decomposition of Cumyl Dithiobenzoate. Macromolecules, 2005, 38, 10332-10335.	2.2	71
51	3D printing of polymeric materials based on photo-RAFT polymerization. Polymer Chemistry, 2020, 11, 641-647.	1.9	70
52	RAFT-mediated, visible light-initiated single unit monomer insertion and its application in the synthesis of sequence-defined polymers. Polymer Chemistry, 2017, 8, 4637-4643.	1.9	69
53	Three-dimensional self-floating foam composite impregnated with porous carbon and polyaniline for solar steam generation. Journal of Colloid and Interface Science, 2021, 581, 504-513.	5.0	67
54	Combining Enzymatic Monomer Transformation with Photoinduced Electron Transfer â^' Reversible Addition–Fragmentation Chain Transfer for the Synthesis of Complex Multiblock Copolymers. ACS Macro Letters, 2014, 3, 633-638.	2.3	66

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55	Single Unit Monomer Insertion: A Versatile Platform for Molecular Engineering through Radical Addition Reactions and Polymerization. Macromolecules, 2019, 52, 9068-9093.	2.2	63
56	Biomimetic synthesis of coordination network materials: Recent advances in MOFs and MPNs. Applied Materials Today, 2018, 10, 93-105.	2.3	62
57	Facile Access to Polymeric Vesicular Nanostructures: Remarkable ï‰-End group Effects in Cholesterol and Pyrene Functional (Co)Polymers. Macromolecules, 2011, 44, 299-312.	2.2	59
58	Effect of molecular architecture of polycarboxylate ethers on plasticizing performance in alkali-activated slag paste. Journal of Materials Science, 2014, 49, 2761-2772.	1.7	59
59	Chlorophyll a crude extract: efficient photo-degradable photocatalyst for PET-RAFT polymerization. Chemical Communications, 2017, 53, 12560-12563.	2.2	58
60	Synthesis, Characterization, and Bioactivity of Mid-Functional PolyHPMAâ^'Lysozyme Bioconjugates. Macromolecules, 2010, 43, 3721-3727.	2.2	56
61	Lightâ€Regulated Polymerization under Nearâ€Infrared/Farâ€Red Irradiation Catalyzed by Bacteriochlorophyllâ€ <i>a</i> . Angewandte Chemie, 2016, 128, 1048-1052.	1.6	56
62	High-Throughput Process for the Discovery of Antimicrobial Polymers and Their Upscaled Production via Flow Polymerization. Macromolecules, 2020, 53, 631-639.	2.2	55
63	A photocatalyst immobilized on fibrous and porous monolithic cellulose for heterogeneous catalysis of controlled radical polymerization. Polymer Chemistry, 2018, 9, 1666-1673.	1.9	54
64	A Process for Well-Defined Polymer Synthesis through Textile Dyeing Inspired Catalyst Immobilization. ACS Sustainable Chemistry and Engineering, 2018, 6, 15245-15253.	3.2	52
65	Flow mediated metal-free PET-RAFT polymerisation for upscaled and consistent polymer production. Reaction Chemistry and Engineering, 2019, 4, 1216-1228.	1.9	52
66	Polymerization of a Photocleavable Monomer Using Visible Light. Macromolecular Rapid Communications, 2016, 37, 905-910.	2.0	50
67	A logic gate for external regulation of photopolymerization. Polymer Chemistry, 2016, 7, 6437-6449.	1.9	50
68	RAFT controlled synthesis of six-armed biodegradable star polymeric architectures via a â€~core-first' methodology. Polymer, 2009, 50, 4455-4463.	1.8	48
69	Novel drug carriers: from grafted polymers to cross-linked vesicles. Chemical Communications, 2013, 49, 33-35.	2.2	43
70	Synthesis of Functionalized and Biodegradable Hyperbranched Polymers from Novel AB ₂ Macromonomers Prepared by RAFT Polymerization. Macromolecules, 2009, 42, 6893-6901.	2.2	41
71	Photoredox catalyst-mediated atom transfer radical addition for polymer functionalization under visible light. Polymer Chemistry, 2014, 5, 3321-3325.	1.9	41
72	Chemotaxisâ€Driven 2D Nanosheet for Directional Drug Delivery toward the Tumor Microenvironment. Small, 2020, 16, e2002732.	5.2	39

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73	Synthesis of SAN-containing block copolymers using RAFT polymerization. Journal of Polymer Science Part A, 2006, 44, 2260-2269.	2.5	38
74	Exploration of the PETâ€RAFT Initiation Mechanism for Two Commonly Used Photocatalysts. ChemPhotoChem, 2019, 3, 1193-1199.	1.5	38
75	Synthesis and Characterization of ABC-type Star and Linear Block Copolymers of Styrene, Isoprene, and 1,3-Cyclohexadiene. Macromolecules, 2006, 39, 6898-6904.	2.2	36
76	Bio-reversible polyPEGylation. Chemical Communications, 2009, , 6560.	2.2	36
77	Synthesis of Discrete Oligomers by Sequential PETâ€RAFT Singleâ€Unit Monomer Insertion. Angewandte Chemie, 2017, 129, 8496-8503.	1.6	36
78	Highly sensitive, stretchable and durable strain sensors based on conductive <scp>doubleâ€network</scp> polymer hydrogels. Journal of Polymer Science, 2020, 58, 3069-3081.	2.0	33
79	Upscaling single unit monomer insertion to synthesize discrete oligomers. Journal of Polymer Science Part A, 2019, 57, 1947-1955.	2.5	32
80	Unraveling Photocatalytic Mechanism and Selectivity in PETâ€RAFT Polymerization. Advanced Theory and Simulations, 2019, 2, 1900038.	1.3	32
81	Divergent Synthesis of Graft and Branched Copolymers through Spatially Controlled Photopolymerization in Flow Reactors. Macromolecules, 2021, 54, 3430-3446.	2.2	32
82	Hierarchically Porous Biocatalytic MOF Microreactor as a Versatile Platform towards Enhanced Multienzyme and Cofactorâ€Đependent Biocatalysis. Angewandte Chemie, 2021, 133, 5481-5488.	1.6	27
83	Design and Synthesis of Thermal Contracting Polymer with Unique Eight-Membered Carbocycle Unit. Macromolecules, 2018, 51, 1377-1385.	2.2	26
84	Interconvertible and switchable cationic/PET-RAFT copolymerization triggered by visible light. Polymer Journal, 2020, 52, 65-73.	1.3	25
85	Precise synthesis of poly(<i>N</i> -acryloyl amino acid) through photoinduced living polymerization. Polymer Chemistry, 2018, 9, 2733-2745.	1.9	24
86	Sequential and alternating RAFT single unit monomer insertion: model trimers as the guide for discrete oligomer synthesis. Polymer Chemistry, 2020, 11, 4557-4567.	1.9	23
87	Photoâ€Induced Depolymerisation: Recent Advances and Future Challenges. ChemPhotoChem, 2019, 3, 1059-1076.	1.5	22
88	Selective and Rapid Lightâ€Induced RAFT Single Unit Monomer Insertion in Aqueous Solution. Macromolecular Rapid Communications, 2020, 41, e1900478.	2.0	22
89	Direct Observation of the RAFT Polymerization Process by Chromatography. Macromolecules, 2007, 40, 5618-5624.	2.2	21
90	Elements of RAFT Navigation. ACS Symposium Series, 2018, , 77-103.	0.5	21

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91	Metalloporphyrin-anchored 2D MOF nanosheets as highly accessible heterogeneous photocatalysts towards cytocompatible living radical polymerization. Chemical Engineering Journal, 2022, 434, 134692.	6.6	18
92	Influence of Molecular Weight Distribution on the Thermoresponsive Transition of Poly(<i>N</i> â€isopropylacrylamide). Macromolecular Rapid Communications, 2021, 42, e2100212.	2.0	17
93	Kinetic analysis of the cross reaction between dithioester and alkoxyamine by a Monte Carlo simulation. Journal of Polymer Science Part A, 2007, 45, 374-387.	2.5	15
94	Self-Assembled Nanosized Vehicles from Amino Acid-Based Amphiphilic Polymers with Pendent Carboxyl Groups for Efficient Drug Delivery. Biomacromolecules, 2021, 22, 4871-4882.	2.6	15
95	Discriminatory Photoactivation of Diastereomeric RAFT Agents. Macromolecules, 2019, 52, 7157-7166.	2.2	14
96	Protein Release from Biodegradable PolyHPMA–Lysozyme Conjugates Resulting in Bioactivity Enhancement. Chemistry - an Asian Journal, 2011, 6, 1398-1404.	1.7	13
97	How does the single unit monomer insertion technique promote kinetic analysis of activation and initiation in photo-RAFT processes?. Polymer Chemistry, 2021, 12, 581-593.	1.9	13
98	Synthesis of Novel Core Crossâ€Linked Starâ€Based Polyrotaxane Endâ€Capped via "CuAAC―Click Chemistr Macromolecular Rapid Communications, 2012, 33, 2109-2114.	У _{2.0}	12
99	pHâ€Gated Activation of Gene Transcription and Translation in Biocatalytic Metal–Organic Framework Artificial Cells. Advanced NanoBiomed Research, 2021, 1, 2000034.	1.7	11
100	Biodegradable PEG Hydrogels Cross-linkedUsing Biotin-Avidin Interactions. Australian Journal of Chemistry, 2010, 63, 1413.	0.5	10
101	Living Additive Manufacturing. ACS Central Science, 2017, 3, 95-96.	5.3	10
102	Robust Strategy for Antibody–Polymer–Drug Conjugation: Significance of Conjugating Orientation and Linker Charge on Targeting Ability. ACS Applied Materials & Interfaces, 2020, 12, 23717-23725.	4.0	10
103	Genetically Encoded Synthetic Beta Cells for Insulin Biosynthesis and Release under Hyperglycemic Conditions. Advanced Functional Materials, 2022, 32, .	7.8	10
104	A self-enhanced and recyclable catalytic system constructed from magnetic bi-nano-bionic enzymes for real-time control of RAFT polymerization. Journal of Materials Chemistry C, 2020, 8, 1301-1308.	2.7	8
105	PET-RAFT single unit monomer insertion of \hat{l}^2 -methylstyrene derivatives: RAFT degradation and reaction selectivity. Chemical Communications, 2021, 57, 10759-10762.	2.2	8
106	Scalable and Recyclable Heterogeneous Organoâ€photocatalysts on Cotton Threads for Organic and Polymer Synthesis. ChemPhotoChem, 2020, 4, 5201-5208.	1.5	7
107	Biofriendly micro/nanomotors operating on biocatalysis: from natural to biological environments. Biophysics Reports, 2020, 6, 179-192.	0.2	6
108	Towards fluorinated Ruddlesden–Popper perovskites with enhanced physical properties: a study on (3-FC ₆ H ₄ CH ₂ CH ₂ NH ₃) ₂ Pbl _{>}	4 s/s ub>	6

single crystals. Materials Chemistry Frontiers, 2021, 5, 4645-4657.

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109	Two plus One: Combination Therapy Tri-systems Involving Two Membrane-Disrupting Antimicrobial Macromolecules and Antibiotics. ACS Infectious Diseases, 2022, 8, 1480-1490.	1.8	6
110	Controlled Polymerization: Beyond Traditional RAFT: Alternative Activation of Thiocarbonylthio Compounds for Controlled Polymerization (Adv. Sci. 9/2016). Advanced Science, 2016, 3, .	5.6	5
111	Unraveling Sequence Effect on Glass Transition Temperatures of Discrete Unconjugated Oligomers. Macromolecular Rapid Communications, 2022, 43, e2100666.	2.0	5
112	Significant Influence of Alkyl Substituents in the Alicyclic Rigid Backbone on Solubility and Thermal Stability of Polyarylamide Copolymers. ACS Applied Polymer Materials, 2021, 3, 2120-2130.	2.0	3
113	Stereochemistry-Induced Discrimination in Reaction Kinetics of Photo-RAFT Initialization. Macromolecules, 2022, 55, 2463-2474.	2.2	3
114	Facile Synthesis of Worm-like Micelles by Visible Light Mediated Dispersion Polymerization Using Photoredox Catalyst. Journal of Visualized Experiments, 2016, , .	0.2	2
115	Frontispiece: Synthesis of Discrete Oligomers by Sequential PETâ€RAFT Singleâ€Unit Monomer Insertion. Angewandte Chemie - International Edition, 2017, 56, .	7.2	1
116	Soluble, Thermally Stable, and Low Thermal Expansion Polyarylamides Enabled by a Seven-Membered Carbocycle. ACS Applied Polymer Materials, 2020, 2, 5423-5431.	2.0	1
117	Macromol. Rapid Commun. 11/2016. Macromolecular Rapid Communications, 2016, 37, 940-940.	2.0	0
118	Frontispiz: Synthesis of Discrete Oligomers by Sequential PETâ€RAFT Singleâ€Unit Monomer Insertion. Angewandte Chemie, 2017, 129, .	1.6	0