

Athina Anastasaki

List of Publications by Year in descending order

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115
papers

7,640
citations

34105

52
h-index

54911

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125
all docs

125
docs citations

125
times ranked

3708
citing authors

#	ARTICLE	IF	CITATIONS
1	Cu(0)-Mediated Living Radical Polymerization: A Versatile Tool for Materials Synthesis. Chemical Reviews, 2016, 116, 835-877.	47.7	373
2	Copper(II)/Tertiary Amine Synergy in Photoinduced Living Radical Polymerization: Accelerated Synthesis of β -Functional and α,β -Heterofunctional Poly(acrylates). Journal of the American Chemical Society, 2014, 136, 1141-1149.	13.7	336
3	Recent Developments and Future Challenges in Controlled Radical Polymerization: A 2020 Update. Chem, 2020, 6, 1575-1588.	11.7	313
4	Aqueous Copper-Mediated Living Polymerization: Exploiting Rapid Disproportionation of CuBr with Me ₆ TREN. Journal of the American Chemical Society, 2013, 135, 7355-7363.	13.7	297
5	Sequence-controlled methacrylic multiblock copolymers via sulfur-free RAFT emulsion polymerization. Nature Chemistry, 2017, 9, 171-178.	13.6	287
6	Sequence-Controlled Multi-Block Glycopolymers to Inhibit DC-SIGN ⁺ gp120 Binding. Angewandte Chemie - International Edition, 2013, 52, 4435-4439.	13.8	218
7	Evolution and Future Directions of Metal-Free Atom Transfer Radical Polymerization. Macromolecules, 2018, 51, 7421-7434.	4.8	176
8	A comparison of RAFT and ATRP methods for controlled radical polymerization. Nature Reviews Chemistry, 2021, 5, 859-869.	30.2	153
9	Photoinduced sequence-control via one pot living radical polymerization of acrylates. Chemical Science, 2014, 5, 3536-3542.	7.4	151
10	Tailoring polymer dispersity and shape of molecular weight distributions: methods and applications. Chemical Science, 2019, 10, 8724-8734.	7.4	145
11	Tuning Dispersity by Photoinduced Atom Transfer Radical Polymerisation: Monomodal Distributions with ppm Copper Concentration. Angewandte Chemie - International Edition, 2019, 58, 13323-13328.	13.8	143
12	Sequence-controlled multi-block copolymerization of acrylamides via aqueous SET-LRP at 0 °C. Polymer Chemistry, 2015, 6, 406-417.	3.9	137
13	Stability of the A15 phase in diblock copolymer melts. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13194-13199.	7.1	130
14	Tailoring Polymer Dispersity by RAFT Polymerization: A Versatile Approach. Chem, 2020, 6, 1340-1352.	11.7	125
15	High Molecular Weight Block Copolymers by Sequential Monomer Addition via Cu(0)-Mediated Living Radical Polymerization (SET-LRP): An Optimized Approach. ACS Macro Letters, 2013, 2, 896-900.	4.8	124
16	Light-Mediated Atom Transfer Radical Polymerization of Semi-Fluorinated (Meth)acrylates: Facile Access to Functional Materials. Journal of the American Chemical Society, 2017, 139, 5939-5945.	13.7	121
17	Cu(0)-mediated living radical polymerization: recent highlights and applications; a perspective. Polymer Chemistry, 2016, 7, 1002-1026.	3.9	119
18	Enlightening the Mechanism of Copper Mediated PhotoRDRP via High-Resolution Mass Spectrometry. Journal of the American Chemical Society, 2015, 137, 6889-6896.	13.7	113

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19	One-Pot Synthesis of ABCDE Multiblock Copolymers with Hydrophobic, Hydrophilic, and Semi-Fluorinated Segments. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14483-14487.	13.8	105
20	Multiblock sequence-controlled glycopolymers via Cu(0)-LRP following efficient thiol-halogen, thiol-epoxy and CuAAC reactions. <i>Polymer Chemistry</i> , 2014, 5, 3876-3883.	3.9	101
21	Expanding the Scope of the Photoinduced Living Radical Polymerization of Acrylates in the Presence of CuBr ₂ and Me ₆ Tren. <i>Macromolecules</i> , 2014, 47, 3852-3859.	4.8	100
22	Photoinduced Synthesis of \pm , ∞ -Telechelic Sequence-Controlled Multiblock Copolymers. <i>Macromolecules</i> , 2015, 48, 1404-1411.	4.8	97
23	Aqueous Copper(II) Photoinduced Polymerization of Acrylates: Low Copper Concentration and the Importance of Sodium Halide Salts. <i>Journal of the American Chemical Society</i> , 2016, 138, 7346-7352.	13.7	95
24	Universal Conditions for the Controlled Polymerization of Acrylates, Methacrylates, and Styrene via Cu(0)-RDRP. <i>Journal of the American Chemical Society</i> , 2017, 139, 1003-1010.	13.7	93
25	Copper-Mediated Polymerization without External Deoxygenation or Oxygen Scavengers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8998-9002.	13.8	91
26	Reversing RAFT Polymerization: Near-Quantitative Monomer Generation Via a Catalyst-Free Depolymerization Approach. <i>Journal of the American Chemical Society</i> , 2022, 144, 4678-4684.	13.7	91
27	Protein-polymer bioconjugates via a versatile oxygen tolerant photoinduced controlled radical polymerization approach. <i>Nature Communications</i> , 2020, 11, 1486.	12.8	82
28	What happens in the dark? Assessing the temporal control of photo-mediated controlled radical polymerizations. <i>Journal of Polymer Science Part A</i> , 2019, 57, 268-273.	2.3	81
29	<i>Absolut</i> - copper catalyzed perfect, robust living polymerization of NIPAM: <i>Guinness</i> is good for SET-LRP. <i>Polymer Chemistry</i> , 2014, 5, 57-61.	3.9	80
30	Effects of Tailored Dispersity on the Self-Assembly of Dimethylsiloxane-Methyl Methacrylate Block Co-Oligomers. <i>ACS Macro Letters</i> , 2017, 6, 668-673.	4.8	78
31	Copper(0)-mediated radical polymerisation in a self-generating biphasic system. <i>Polymer Chemistry</i> , 2013, 4, 106-112.	3.9	75
32	Facile production of nanoaggregates with tuneable morphologies from thermoresponsive P(DEGMA-co-HPMA). <i>Polymer Chemistry</i> , 2016, 7, 430-440.	3.9	74
33	Effect of Polymerization Components on Oxygen-Tolerant Photo-ATRP. <i>ACS Macro Letters</i> , 2019, 8, 1546-1551.	4.8	72
34	Organic Arsenicals As Efficient and Highly Specific Linkers for Protein/Peptide-Polymer Conjugation. <i>Journal of the American Chemical Society</i> , 2015, 137, 4215-4222.	13.7	71
35	Photo-induced living radical polymerization of acrylates utilizing a discrete copper(II)-formate complex. <i>Chemical Communications</i> , 2015, 51, 5626-5629.	4.1	70
36	Copper-Mediated Reversible Deactivation Radical Polymerization in Aqueous Media. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10468-10482.	13.8	70

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37	The importance of ligand reactions in Cu(0)-mediated living radical polymerisation of acrylates. Polymer Chemistry, 2013, 4, 2672.	3.9	68
38	Rapid Synthesis of Well-Defined Polyacrylamide by Aqueous Cu(0)-Mediated Reversible-Deactivation Radical Polymerization. Macromolecules, 2016, 49, 483-489.	4.8	67
39	Rapid Visible Light-Mediated Controlled Aqueous Polymerization with In Situ Monitoring. ACS Macro Letters, 2017, 6, 1109-1113.	4.8	65
40	Tailoring Polymer Dispersity in Photoinduced Iron-Catalyzed ATRP. ACS Macro Letters, 2020, 9, 459-463.	4.8	65
41	Synthesis and Aggregation of Double Hydrophilic Diblock Glycopolymers via Aqueous SET-LRP. ACS Macro Letters, 2014, 3, 491-495.	4.8	64
42	Surfactant-free RAFT emulsion polymerization using a novel biocompatible thermoresponsive polymer. Polymer Chemistry, 2017, 8, 1353-1363.	3.9	62
43	Poly(acrylates) via SET-LRP in a continuous tubular reactor. Polymer Chemistry, 2013, 4, 4809.	3.9	60
44	Ultra-low volume oxygen tolerant photoinduced Cu-RDRP. Polymer Chemistry, 2019, 10, 963-971.	3.9	60
45	Tailoring polymer dispersity by mixing chain transfer agents in PET-RAFT polymerization. Polymer Chemistry, 2020, 11, 4968-4972.	3.9	60
46	Aqueous Copper(0)-Mediated Living Radical Polymerisation of N-Acryloylmorpholine, SET-LRP in Water. Macromolecular Rapid Communications, 2014, 35, 965-970.	3.9	58
47	Concurrent control over sequence and dispersity in multiblock copolymers. Nature Chemistry, 2022, 14, 304-312.	13.6	58
48	Sequence-Controlled Methacrylic Multiblock Copolymers: Expanding the Scope of Sulfur-Free RAFT. Macromolecules, 2018, 51, 336-342.	4.8	57
49	Synthesis of Well-Defined Poly(acrylates) in Ionic Liquids via Copper(II)-Mediated Photoinduced Living Radical Polymerization. Macromolecules, 2015, 48, 5140-5147.	4.8	56
50	Copper(II) gluconate (a non-toxic food supplement/dietary aid) as a precursor catalyst for effective photo-induced living radical polymerisation of acrylates. Polymer Chemistry, 2015, 6, 3581-3585.	3.9	56
51	End group modification of poly(acrylates) obtained via ATRP: a user guide. Polymer Chemistry, 2017, 8, 689-697.	3.9	56
52	Self-activation and activation of Cu(0) wire for SET-LRP mediated by fluorinated alcohols. Polymer Chemistry, 2014, 5, 89-95.	3.9	54
53	Synthesis of well-defined 1,3-telechelic multiblock copolymers in aqueous medium: in situ generation of 1,3-diols. Polymer Chemistry, 2015, 6, 2226-2233.	3.9	54
54	SET-LRP of hydrophobic and hydrophilic acrylates in tetrafluoropropanol. Polymer Chemistry, 2013, 4, 5555.	3.9	52

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55	Copper-mediated living radical polymerization (SET-LRP) of lipophilic monomers from multi-functional initiators: reducing star coupling at high molecular weights and high monomer conversions. <i>Polymer Chemistry</i> , 2014, 5, 892-898.	3.9	52
56	Facile access to thermoresponsive filomicelles with tuneable cores. <i>Chemical Communications</i> , 2016, 52, 4497-4500.	4.1	51
57	Investigating the Mechanism of Copper(0)-Mediated Living Radical Polymerization in Organic Media. <i>Macromolecules</i> , 2015, 48, 5517-5525.	4.8	50
58	Investigating the Mechanism of Copper(0)-Mediated Living Radical Polymerization in Aqueous Media. <i>Macromolecules</i> , 2015, 48, 6421-6432.	4.8	49
59	Controlled radical polymerization of vinyl ketones using visible light. <i>Polymer Chemistry</i> , 2017, 8, 3351-3356.	3.9	47
60	Investigating Temporal Control in Photoinduced Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2020, 53, 5280-5288.	4.8	47
61	SET-LRP of methacrylates in fluorinated alcohols. <i>Polymer Chemistry</i> , 2013, 4, 5563.	3.9	46
62	Polymerization of long chain [meth]acrylates by Cu(0)-mediated and catalytic chain transfer polymerisation (CCTP): high fidelity end group incorporation and modification. <i>Polymer Chemistry</i> , 2013, 4, 4113.	3.9	45
63	Methacrylic block copolymers by sulfur free RAFT (SF RAFT) free radical emulsion polymerisation. <i>Polymer Chemistry</i> , 2017, 8, 1084-1094.	3.9	43
64	Cu(0)-RDRP of methacrylates in DMSO: importance of the initiator. <i>Polymer Chemistry</i> , 2018, 9, 2382-2388.	3.9	43
65	Dual-pathway chain-end modification of RAFT polymers using visible light and metal-free conditions. <i>Chemical Communications</i> , 2017, 53, 1888-1891.	4.1	41
66	Precise Control of Both Dispersity and Molecular Weight Distribution Shape by Polymer Blending. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19383-19388.	13.8	40
67	Well-Defined PDMAEA Stars via Cu(0)-Mediated Reversible Deactivation Radical Polymerization. <i>Macromolecules</i> , 2016, 49, 8914-8924.	4.8	39
68	Overcoming Surfactant-Induced Morphology Instability of Noncrosslinked Diblock Copolymer Nano-Objects Obtained by RAFT Emulsion Polymerization. <i>ACS Macro Letters</i> , 2018, 7, 159-165.	4.8	38
69	Synthesis and reactivity of \pm -homotelechelic polymers by Cu(0)-mediated living radical polymerization. <i>European Polymer Journal</i> , 2015, 62, 294-303.	5.4	36
70	Norbornadienes: Robust and Scalable Building Blocks for Cascade Click-Coupling of High Molecular Weight Polymers. <i>Journal of the American Chemical Society</i> , 2019, 141, 13619-13624.	13.7	36
71	Architecture Effects in Complex Spherical Assemblies of (AB) _n -Type Block Copolymers. <i>ACS Macro Letters</i> , 2020, 9, 1745-1752.	4.8	34
72	Dual Stimuli-Responsive Comb Polymers from Modular N-Acylated Poly(aminoester)-Based Macromonomers. <i>ACS Macro Letters</i> , 2016, 5, 321-325.	4.8	32

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73	Ubiquitous Nature of Rate Retardation in Reversible Addition–Fragmentation Chain Transfer Polymerization. <i>Journal of the American Chemical Society</i> , 2021, 143, 17769-17777.	13.7	32
74	Elucidating the effect of sequence and degree of polymerization on antimicrobial properties for block copolymers. <i>Polymer Chemistry</i> , 2020, 11, 84-90.	3.9	31
75	Controlled aqueous polymerization of acrylamides and acrylates and <i>in situ</i> depolymerization in the presence of dissolved CO ₂ . <i>Chemical Communications</i> , 2016, 52, 6533-6536.	4.1	29
76	Discrete copper(II)-formate complexes as catalytic precursors for photo-induced reversible deactivation polymerization. <i>Polymer Chemistry</i> , 2016, 7, 191-197.	3.9	29
77	Efficient Binding, Protection, and Self-Release of dsRNA in Soil by Linear and Star Cationic Polymers. <i>ACS Macro Letters</i> , 2018, 7, 909-915.	4.8	28
78	Tuning Dispersity by Photoinduced Atom Transfer Radical Polymerisation: Monomodal Distributions with ppm Copper Concentration. <i>Angewandte Chemie</i> , 2019, 131, 13457-13462.	2.0	27
79	The effect of ligand, solvent and Cu(0) source on the efficient polymerization of polyether acrylates and methacrylates in aqueous and organic media. <i>Polymer Chemistry</i> , 2015, 6, 5940-5950.	3.9	26
80	Novel comb polymers from alternating N-acylated poly(aminoester)s obtained by spontaneous zwitterionic copolymerisation. <i>Chemical Communications</i> , 2015, 51, 16213-16216.	4.1	25
81	Copper-Mediated Polymerization without External Deoxygenation or Oxygen Scavengers. <i>Angewandte Chemie</i> , 2018, 130, 9136-9140.	2.0	25
82	Photo-induced copper-RDRP in continuous flow without external deoxygenation. <i>Polymer Chemistry</i> , 2019, 10, 4402-4406.	3.9	25
83	Photoinduced Iron-Catalyzed ATRP of Renewable Monomers in Low-Toxicity Solvents: A Greener Approach. <i>ACS Macro Letters</i> , 2022, 11, 841-846.	4.8	25
84	Conformationally tuned antibacterial oligomers target the peptidoglycan of Gram-positive bacteria. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 850-862.	9.4	24
85	Transformer-Induced Metamorphosis of Polymeric Nanoparticle Shape at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202113424.	13.8	24
86	Polymerisation of 2-acrylamido-2-methylpropane sulfonic acid sodium salt (NaAMPS) and acryloyl phosphatidylcholine (APC) via aqueous Cu(0)-mediated radical polymerisation. <i>Polymer Chemistry</i> , 2016, 7, 2452-2456.	3.9	23
87	Direct access to functional (Meth)acrylate copolymers through transesterification with lithium alkoxides. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1566-1574.	2.3	23
88	Controlling dispersity in aqueous atom transfer radical polymerization: rapid and quantitative synthesis of one-pot block copolymers. <i>Chemical Science</i> , 2021, 12, 14376-14382.	7.4	22
89	Tailoring polymer dispersity by mixing ATRP initiators. <i>Polymer Chemistry</i> , 2021, 12, 5583-5588.	3.9	22
90	One-Pot Synthesis of ABCDE Multiblock Copolymers with Hydrophobic, Hydrophilic, and Semi-Fluorinated Segments. <i>Angewandte Chemie</i> , 2017, 129, 14675-14679.	2.0	20

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91	Methacrylic Zwitterionic, Thermoresponsive, and Hydrophilic (Co)Polymers via Cu(0)-Polymerization: The Importance of Halide Salt Additives. <i>Macromolecular Rapid Communications</i> , 2016, 37, 356-361.	3.9	19
92	Low ppm CuBr-Triggered Atom Transfer Radical Polymerization under Mild Conditions. <i>Macromolecules</i> , 2021, 54, 3075-3083.	4.8	19
93	Hydrosilylation as an efficient tool for polymer synthesis and modification with methacrylates. <i>RSC Advances</i> , 2015, 5, 5879-5885.	3.6	18
94	Cu(0)-RDRP of styrene: balancing initiator efficiency and dispersity. <i>Polymer Chemistry</i> , 2018, 9, 4395-4403.	3.9	18
95	Scalable synthesis of an architectural library of well-defined poly(acrylic acid) derivatives: Role of structure on dispersant performance. <i>Journal of Polymer Science Part A</i> , 2019, 57, 716-725.	2.3	18
96	Oxygen tolerant, photoinduced controlled radical polymerization approach for the synthesis of <i>giant amphiphiles</i>. <i>Polymer Chemistry</i> , 2021, 12, 2228-2235.	3.9	18
97	Statistical copolymers of methyl methacrylate and 2- <i>methacryloyloxyethyl ferrocenecarboxylate</i> : Monomer reactivity ratios, thermal and electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3080-3089.	2.3	17
98	Tuning Ligand Concentration in Cu(0)-RDRP: A Simple Approach to Control Polymer Dispersity. <i>ACS Polymers Au</i> , 2021, 1, 187-195.	4.1	17
99	Desulfurization- <i> bromination</i> : direct chain-end modification of RAFT polymers. <i>Polymer Chemistry</i> , 2017, 8, 7188-7194.	3.9	16
100	Macrocyclic Side-Chain Monomers for Photoinduced ATRP: Synthesis and Properties versus Long-Chain Linear Isomers. <i>Macromolecules</i> , 2018, 51, 6901-6910.	4.8	16
101	Kupfervermittelte radikalische Polymerisation mit reversibler Deaktivierung in wässrigen Medien. <i>Angewandte Chemie</i> , 2018, 130, 10628-10643.	2.0	16
102	Shape-Controlled Nanoparticles from a Low-Energy Nanoemulsion. <i>Jacs Au</i> , 2021, 1, 1975-1986.	7.9	16
103	Practical Chain-End Reduction of Polymers Obtained with ATRP. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700107.	2.2	13
104	Tuning of protease resistance in oligopeptides through <i>N</i>-alkylation. <i>Chemical Communications</i> , 2018, 54, 9631-9634.	4.1	13
105	Controlling polymer dispersity using switchable RAFT agents: Unravelling the effect of the organic content and degree of polymerization. <i>European Polymer Journal</i> , 2022, 174, 111326.	5.4	13
106	Understanding dispersity control in photo-atom transfer radical polymerization: Effect of degree of polymerization and kinetic evaluation. <i>Journal of Polymer Science</i> , 2021, 59, 2502.	3.8	11
107	Controlling size, shape, and charge of nanoparticles via low-energy miniemulsion and heterogeneous RAFT polymerization. <i>European Polymer Journal</i> , 2022, 176, 111417.	5.4	9
108	A di- <i>tert</i> -butyl acrylate monomer for controlled radical photopolymerization. <i>Journal of Polymer Science Part A</i> , 2017, 55, 801-807.	2.3	7

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109	Transformer-Induced Metamorphosis of Polymeric Nanoparticle Shape at Room Temperature. Angewandte Chemie, 2022, 134, .	2.0	7
110	Precise Control of Both Dispersity and Molecular Weight Distribution Shape by Polymer Blending. Angewandte Chemie, 2021, 133, 19532-19537.	2.0	6
111	A general model for the ideal chain length distributions of polymers made with reversible deactivation. Polymer Chemistry, 2022, 13, 898-913.	3.9	6
112	Sequence-Controlled Multi-Block Glycopolymers via Cu(0) Mediated Living Radical Polymerization. ACS Symposium Series, 2014, , 327-348.	0.5	4
113	Unprecedented Control over the Acrylate and Acrylamide Polymerization in Aqueous and Organic Media. ACS Symposium Series, 2015, , 29-45.	0.5	3
114	Low-Temperature, Rapid Copolymerization of Acrylic Acid and Sodium Acrylate in Water. Journal of Polymer Science Part A, 2019, 57, 1414-1419.	2.3	3
115	Sequence-controlled Polymers via Controlled Radical Polymerization. Chimia, 2019, 73, 331-331.	0.6	0