

Atsushi Goto

List of Publications by Year in descending order

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72
papers

3,968
citations

185998

28
h-index

118652

62
g-index

72
all docs

72
docs citations

72
times ranked

2277
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics of living radical polymerization. <i>Progress in Polymer Science</i> , 2004, 29, 329-385.	11.8	865
2	Structure and Properties of High-Density Polymer Brushes Prepared by Surface-Initiated Living Radical Polymerization. <i>Advances in Polymer Science</i> , 2006, , 1-45.	0.4	551
3	Photocontrolled Organocatalyzed Living Radical Polymerization Feasible over a Wide Range of Wavelengths. <i>Journal of the American Chemical Society</i> , 2015, 137, 5610-5617.	6.6	220
4	Protein Repellency of Well-Defined, Concentrated Poly(2-hydroxyethyl methacrylate) Brushes by the Size-Exclusion Effect. <i>Macromolecules</i> , 2006, 39, 2284-2290.	2.2	201
5	Visible-Light-Induced Reversible Complexation Mediated Living Radical Polymerization of Methacrylates with Organic Catalysts. <i>Macromolecules</i> , 2013, 46, 96-102.	2.2	159
6	Reversible Generation of a Carbon-Centered Radical from Alkyl Iodide Using Organic Salts and Their Application as Organic Catalysts in Living Radical Polymerization. <i>Journal of the American Chemical Society</i> , 2013, 135, 11131-11139.	6.6	154
7	Mechanism and Kinetics of Iodide-Mediated Polymerization of Styrene. <i>Macromolecules</i> , 1998, 31, 2809-2814.	2.2	138
8	Living Radical Polymerizations with Germanium, Tin, and Phosphorus Catalysts ~ Reversible Chain Transfer Catalyzed Polymerizations (RTCPs). <i>Journal of the American Chemical Society</i> , 2007, 129, 13347-13354.	6.6	127
9	Reversible Complexation Mediated Living Radical Polymerization (RCMP) Using Organic Catalysts. <i>Macromolecules</i> , 2011, 44, 8709-8715.	2.2	125
10	Determination of the activation rate constants of alkyl halide initiators for atom transfer radical polymerization. <i>Macromolecular Rapid Communications</i> , 1999, 20, 633-636.	2.0	116
11	Reversible chain transfer catalyzed polymerization (RTCP): A new class of living radical polymerization. <i>Polymer</i> , 2008, 49, 5177-5185.	1.8	96
12	Solvent-Selective Reactions of Alkyl Iodide with Sodium Azide for Radical Generation and Azide Substitution and Their Application to One-Pot Synthesis of Chain-End-Functionalized Polymers. <i>Journal of the American Chemical Society</i> , 2017, 139, 10551-10560.	6.6	69
13	Living Radical Polymerization with Nitrogen Catalyst: Reversible Chain Transfer Catalyzed Polymerization with <i>N</i> -Iodosuccinimide. <i>Macromolecules</i> , 2008, 41, 6261-6264.	2.2	66
14	Polymer Dispersity Control by Organocatalyzed Living Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5598-5603.	7.2	63
15	Systematic Study on Alkyl Iodide Initiators in Living Radical Polymerization with Organic Catalysts. <i>Macromolecules</i> , 2014, 47, 6610-6618.	2.2	55
16	Organocatalyzed Living Radical Polymerization via in Situ Halogen Exchange of Alkyl Bromides to Alkyl Iodides. <i>Macromolecules</i> , 2017, 50, 1882-1891.	2.2	52
17	Recent development in halogen-bonding-catalyzed living radical polymerization. <i>Polymer Chemistry</i> , 2020, 11, 5559-5571.	1.9	51
18	Phenols and Carbon Compounds as Efficient Organic Catalysts for Reversible Chain Transfer Catalyzed Living Radical Polymerization (RTCP). <i>Macromolecules</i> , 2010, 43, 7971-7978.	2.2	49

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19	Biocompatible Choline Iodide Catalysts for Green Living Radical Polymerization of Functional Polymers. <i>ACS Macro Letters</i> , 2018, 7, 263-268.	2.3	47
20	Reversible Chain Transfer Catalyzed Polymerization (RTCP) of Methyl Methacrylate with Nitrogen Catalyst in an Aqueous Microsuspension System. <i>Macromolecules</i> , 2010, 43, 8703-8705.	2.2	46
21	Facile Fabrication of Concentrated Polymer Brushes with Complex Patterning by Photocontrolled Organocatalyzed Living Radical Polymerization. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13504-13508.	7.2	41
22	Living Radical Polymerization with Alkali and Alkaline Earth Metal Iodides as Catalysts. <i>Macromolecules</i> , 2016, 49, 5033-5042.	2.2	40
23	Synthesis of transition-metal-free and sulfur-free nanoparticles and nanocapsules <i>via</i> reversible complexation mediated polymerization (RCMP) and polymerization induced self-assembly (PISA). <i>Polymer Chemistry</i> , 2018, 9, 4900-4907.	1.9	38
24	Pyridine <i>N</i> -Oxide Catalyzed Living Radical Polymerization of Methacrylates via Halogen Bonding Catalysis. <i>Macromolecules</i> , 2019, 52, 2156-2163.	2.2	37
25	Comprehensive Study on Chain-End Transformation of Polymer Iodides with Amines for Synthesizing Various Chain-End Functionalized Polymers. <i>Macromolecules</i> , 2016, 49, 9425-9440.	2.2	35
26	Multistimuli Responsive Reversible Cross-Linking/Decross-Linking of Concentrated Polymer Brushes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28711-28719.	4.0	32
27	Living Radical Polymerization via Organic Superbase Catalysis. <i>Polymers</i> , 2014, 6, 860-872.	2.0	31
28	Kinetic Simulations of Reversible Chain Transfer Catalyzed Polymerization (RTCP): Guidelines to Optimum Molecular Weight Control. <i>Macromolecular Theory and Simulations</i> , 2010, 19, 24-35.	0.6	28
29	Self-Catalyzed Living Radical Polymerization Using Quaternary-Ammonium-Iodide-Containing Monomers. <i>Macromolecules</i> , 2019, 52, 2712-2718.	2.2	28
30	Macromolecular Architectures Designed by Living Radical Polymerization with Organic Catalysts. <i>Polymers</i> , 2014, 6, 311-326.	2.0	26
31	Theoretical and Experimental Studies on Elementary Reactions in Living Radical Polymerization via Organic Amine Catalysis. <i>Macromolecules</i> , 2016, 49, 2511-2517.	2.2	26
32	Temperature-Selective Dual Radical Generation from Alkyl Diiodide: Applications to Synthesis of Asymmetric CABc Multi-Block Copolymers and Their Unique Assembly Structures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1552-1556.	7.2	24
33	Effective Synthesis of Patterned Polymer Brushes with Tailored Multiple Graft Densities. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14478-14484.	4.0	24
34	Recyclable Solid-Supported Catalysts for Quaternary Ammonium Iodide-Catalyzed Living Radical Polymerization. <i>Macromolecules</i> , 2020, 53, 51-58.	2.2	22
35	Polymer Dispersity Control by Organocatalyzed Living Radical Polymerization. <i>Angewandte Chemie</i> , 2019, 131, 5654-5659.	1.6	20
36	Iodine transfer dispersion polymerization (dispersion ITP) with CHI ₃ and reversible chain transfer catalyzed dispersion polymerization (dispersion RTCP) with GeI ₄ of styrene in supercritical carbon dioxide. <i>Polymer</i> , 2012, 53, 1212-1218.	1.8	19

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37	One Reagent with Two Functions: Simultaneous Living Radical Polymerization and Chain-End Substitution for Tailoring Polymer Dispersity. <i>ACS Macro Letters</i> , 2021, 10, 584-590.	2.3	18
38	Carboxylate, nitrate, sulfonate, and phosphate catalysts for living radical polymerization <i>via</i> iodine halogen bonding catalysis. <i>Polymer Chemistry</i> , 2020, 11, 53-60.	1.9	17
39	Photo-selective chain end transformation of polyacrylate-iodide using cysteamine and its application to facile single-step preparation of patterned polymer brushes. <i>Chemical Communications</i> , 2018, 54, 13738-13741.	2.2	16
40	Synthesis of nano-capsules <i>via</i> aqueous emulsion RCMP-PISA and encapsulation. <i>Polymer Chemistry</i> , 2020, 11, 3904-3912.	1.9	15
41	Novel in-plane switching liquid crystal display with an extremely high transmittance using a well-designed bottlebrush as a zero-azimuth anchoring material. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 066503.	0.8	14
42	Synthesis of degradable and chemically recyclable polymers using 4,4-disubstituted five-membered cyclic ketene hemiacetal ester (CKHE) monomers. <i>Chemical Science</i> , 2021, 12, 13546-13556.	3.7	13
43	Reduction-responsive double hydrophilic block copolymer nano-capsule synthesized <i>via</i> RCMP-PISA. <i>Polymer Chemistry</i> , 2021, 12, 1060-1067.	1.9	12
44	Temperature-Selective Dual Radical Generation from Alkyl Diiodide: Applications to Synthesis of Asymmetric ABC Multi-Block Copolymers and Their Unique Assembly Structures. <i>Angewandte Chemie</i> , 2018, 130, 1568-1572.	1.6	11
45	Versatile preparation of surface-skinless particles of epoxy resin-based monoliths using a well-defined diblock copolymer surfactant. <i>Polymer Chemistry</i> , 2018, 9, 414-419.	1.9	11
46	A photo-selective chain-end modification of polyacrylate-iodide and its application in patterned polymer brush synthesis. <i>Polymer Chemistry</i> , 2019, 10, 5913-5919.	1.9	10
47	Solid-Phase Radical Polymerization of Halogen-Bond-Based Crystals and Applications to Pre-Shaped Polymer Materials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9360-9364.	7.2	10
48	Use of poly(methyl methacrylate) with an unsaturated chain end as a macroinitiator precursor in organocatalyzed living radical block polymerization. <i>Polymer Chemistry</i> , 2018, 9, 4848-4855.	1.9	9
49	Temperature-Directed Micellar Morphological Transformation Using ABC-Block Copolymers and Its Applications in Encapsulation and Hidden Segment. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1941-1949.	7.2	9
50	Organocatalyzed Living Radical Polymerization of Itaconates and Self-Assemblies of Rod-Coil Block Copolymers. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000075.	2.0	9
51	Metal-Free Fast Azidation by Using Tetrabutylammonium Azide: Effective Synthesis of Alkyl Azides and Well-Defined Azido-End Polymethacrylates. <i>Chemistry - A European Journal</i> , 2019, 25, 13025-13029.	1.7	8
52	Synthesis of ABC Miktoarm Star Copolymers via Organocatalyzed Living Radical Polymerization. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900623.	2.0	8
53	Systematic study on evolution of self-assembly morphologies of ABC tetrablock terpolymers with varied segment lengths. <i>Polymer Chemistry</i> , 2020, 11, 3987-3993.	1.9	7
54	Sol-Gel Transitions of Comb-Like Polymethacrylate Copolymers by Mechano-Thermal Stimuli in Water. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000088.	1.1	7

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55	Facile Fabrication of Concentrated Polymer Brushes with Complex Patterning by Photocontrolled Organocatalyzed Living Radical Polymerization. <i>Angewandte Chemie</i> , 2018, 130, 13692-13696.	1.6	6
56	Synthesis of Block Copolymers by Mechanistic Transformation from Reversible Complexation Mediated Living Radical Polymerization to the Photoinduced Radical Oxidation/Addition/Deactivation Process. <i>ACS Macro Letters</i> , 2022, 11, 342-346.	2.3	5
57	Photo-Controlled Organocatalyzed Living Radical Polymerization and Its Application to Polymer Brush Synthesis on Surface. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2017, 30, 379-383.	0.1	4
58	Synthesis of block copolymers using poly(methyl methacrylate) with unsaturated chain end through kinetic studies. <i>Polymer Chemistry</i> , 2019, 10, 5617-5625.	1.9	3
59	Halogen-bond-driven supramolecular assemblies of quaternary-ammonium-iodide-containing polymers in three phases. <i>Cell Reports Physical Science</i> , 2021, 2, 100469.	2.8	3
60	Synthesis of Biologically Decomposable Terpolymer Nanocapsules and Higher-Order Nanoassemblies Using RCMP&PISA. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2100349.	1.1	3
61	Surface-Initiated Living Radical Polymerizations Using Iodine, Organotellurium, and Organic Catalysts. <i>Advances in Polymer Science</i> , 2015, , 107-122.	0.4	2
62	83&1: <i>Late&News Paper</i>: Electro&Optic Characteristics of OZ&PS LCD Utilizing an Application&Type, Zero&Azimuth Anchoring Material. <i>Digest of Technical Papers SID International Symposium</i> , 2017, 48, 704-707.	0.1	2
63	Temperature&Directed Micellar Morphological Transformation Using ABC&Block Copolymers and Its Applications in Encapsulation and Hidden Segment. <i>Angewandte Chemie</i> , 2020, 132, 1957-1965.	1.6	2
64	Solid&Phase Radical Polymerization of Halogen&Bond&Based Crystals and Applications to Pre&Shaped Polymer Materials. <i>Angewandte Chemie</i> , 2020, 132, 9446-9450.	1.6	2
65	Aqueous emulsion polymerizations of methacrylates and styrene <i>via</i> reversible complexation mediated polymerization (RCMP). <i>Polymer Chemistry</i> , 2021, 12, 5770-5780.	1.9	2
66	Synthesis of core-crosslinked star polymers <i>via</i> organocatalyzed living radical polymerization. <i>Polymer Chemistry</i> , 2021, 12, 4043-4051.	1.9	2
67	Synthesis of vinyl iodide chain-end polymers via organocatalyzed chain-end transformation. <i>Chemical Communications</i> , 2021, 57, 1105-1108.	2.2	2
68	Polymer Coupling via Hetero-Disulfide Exchange and Its Applications to Rewritable Polymer Brushes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24183-24193.	4.0	2
69	Reversible Complexation Mediated Living Radical Polymerization Using Tetraalkylammonium Chloride Catalysts. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	2.0	2
70	Air&Tolerant Reversible Complexation Mediated Polymerization (RCMP) Using Aldehyde. <i>Macromolecular Rapid Communications</i> , 2022, , 2200091.	2.0	1
71	Alkyl Bromide as Precursor of Initiating Dormant Species in Organocatalyzed Living Radical Polymerization. <i>ACS Symposium Series</i> , 2018, , 365-378.	0.5	0
72	Dumbbell-Shaped Block Copolymers for the Fabrication of Anisotropic Soft Actuators. <i>ACS Applied Polymer Materials</i> , 0, , .	2.0	0