Hiroshi Sugimoto

List of Publications by Year in descending order

54 papers	1,797 citations	430754 18 h-index	265120 42 g-index
55 all docs	55 docs citations	55 times ranked	1181 citing authors

#	Article	IF	Citations
1	Copolymerization of carbon dioxide and epoxide. Journal of Polymer Science Part A, 2004, 42, 5561-5573.	2.5	350
2	The Cobalt Porphyrinâ"Lewis Base System:â€‰ A Highly Selective Catalyst for Alternating Copolymerization of CO2 and Epoxide under Mild Conditions. Macromolecules, 2008, 41, 312-317.	2.2	160
3	Alternating copolymerization of carbon dioxide and epoxide catalyzed by an aluminum Schiff base-ammonium salt system. Journal of Polymer Science Part A, 2005, 43, 4172-4186.	2.5	156
4	Alternating copolymerization of carbon dioxide and epoxide by manganese porphyrin: The first example of polycarbonate synthesis from 1-atm carbon dioxide. Journal of Polymer Science Part A, 2003, 41, 3549-3555.	2.5	107
5	Direct Copolymerization of CO2 and Diols. Scientific Reports, 2016, 6, 24038.	1.6	98
6	Dual Catalyst System for Asymmetric Alternating Copolymerization of Carbon Dioxide and Cyclohexene Oxide with Chiral Aluminum Complexes: Lewis Base as Catalyst Activator and Lewis Acid as Monomer Activator. Macromolecules, 2012, 45, 8172-8192.	2.2	85
7	Lewis Acid-Assisted Anionic Ring-Opening Polymerization of Epoxide by the Aluminum Complexes of Porphyrin, Phthalocyanine, Tetraazaannulene, and Schiff Base as Initiators. Macromolecules, 1994, 27, 2013-2018.	2.2	84
8	Photoresponsive Molecular Switch to Control Chemical Fixation of CO2. Journal of the American Chemical Society, 1999, 121, 2325-2326.	6.6	82
9	Recent progress in the synthesis of polymers based on carbon dioxide. Pure and Applied Chemistry, 2006, 78, 1823-1834.	0.9	68
10	Aluminum thiolate complexes of porphyrin as excellent initiators for Lewis acid-assisted high-speed living polymerization of methyl methacrylate. Macromolecules, 1993, 26, 1238-1243.	2.2	51
11	Ring-opening polymerizations of lactone and epoxide initiated with aluminum complexes of substituted tetraphenylporphyrins. Molecular design of highly active initiators. Macromolecules, 1990, 23, 2869-2875.	2.2	49
12	Controlled synthesis of high molecular weight poly(methyl methacrylate) based on Lewis acid-assisted high-speed living polymerization initiated with aluminum porphyrin. Macromolecules, 1992, 25, 2280-2281.	2.2	47
13	High-speed living anionic polymerization of methacrylic esters with aluminum porphyrin initiators. Organoaluminum compounds as Lewis acid accelerators. Macromolecules, 1993, 26, 3403-3410.	2.2	42
14	Polymerization by Metalloporphyrin and Related Complexes. Advances in Polymer Science, 1999, , 39-119.	0.4	36
15	Lewis Acid-Driven Accelerated Living Polymerization of Lactones Initiated with Aluminum Porphyrins. Chemoselective Activation of Ester Groups by Lewis Acid. Macromolecules, 1997, 30, 57-62.	2.2	35
16	Lanthanoid isopropoxide as a novel initiator for anionic polymerization of isocyanates. Macromolecular Rapid Communications, 1996, 17, 1-7.	2.0	31
17	Synthesis of H-shaped carbon-dioxide-derived poly(propylene carbonate) for topology-based reduction of the glass transition temperature. Polymer Chemistry, 2014, 5, 1883-1890.	1.9	23
18	Carbon-dioxide-derived unsaturated alicyclic polycarbonate: Synthesis, characterization, and post-polymerization modification. Polymer, 2014, 55, 4832-4836.	1.8	22

#	Article	IF	Citations
19	Alternating copolymerization of carbon dioxide and epoxide by dinuclear zinc Schiff base complex. Reactive and Functional Polymers, 2007, 67, 1277-1283.	2.0	19
20	Planar-Chiral Metal Complexes Comprised of Square-Planar Metal and Achiral Tetradentate Ligands: Design, Optical Resolution, and Thermodynamics. Inorganic Chemistry, 2012, 51, 4134-4142.	1.9	19
21	Organoboron compounds as Lewis acid accelerators for the aluminum porphyrin-mediated living anionic polymerization of methyl methacrylate. Macromolecules, 1993, 26, 4751-4755.	2.2	18
22	Enantiomeric discrimination by novel optically active isocyanurates having peripheral amino acid units. Tetrahedron: Asymmetry, 2000, 11, 2067-2075.	1.8	17
23	Accelerated Living Polymerization of Methacrylonitrile with Aluminum Porphyrin Initiators by Activation of Monomer or Growing Species. Controlled Synthesis and Properties of Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.4	16
24	Synthesis of four- and six-armed star-shaped polycarbonates by immortal alternating copolymerization of CO₂ and propylene oxide. Polymer Chemistry, 2016, 7, 3906-3912.	1.9	15
25	Living polymerization of methacrylic esters with aluminium porphyrin initiators. Axial ligand exchange activities of alkyl- and enolate-aluminium porphyrins in relation to the polymerization Mechanism. Journal of Physical Organic Chemistry, 1995, 8, 249-257.	0.9	13
26	Stepped-up reactivity of a simple lanthanoid initiator. Polymerization of methyl methacrylate initiated with a lanthanoid alkoxide â€“ ketene system. Macromolecular Chemistry and Physics, 1997, 198, 1605-1610.	1.1	13
27	Cyclophane porphyrin - I. Tetrahedron Letters, 1976, 17, 4477-4480.	0.7	12
28	Unusual conformational stability of a sterically crowded atropisomer of methyl[Î±-4-5,10,15,20-tetrakis(2â€²-phenylphenyl)porphyrinato]aluminium: a possibility of CHâ€“Ï€ bonding interactions in organometallic porphyrin systems. Journal of the Chemical Society Chemical Communications, 1995, , 1411-1412.	2.0	11
29	Synthesis of CO2-derived polycarbonates with high glass transition temperatures. Polymer Journal, 2018, 50, 301-307.	1.3	11
30	Lewis acid â€•assisted high speed living anionic polymerization by the aluminum porphyrin â€•Lewis acid systems. Makromolekulare Chemie Macromolecular Symposia, 1993, 67, 125-135.	0.6	9
31	Lewis acid-promoted living anionic polymerization of alkyl methacrylates initiated with aluminum porphyrins. Importance of steric balance between a nucleophile and a Lewis acid. Macromolecules, 1994, 27, 3672-3674.	2.2	9
32	Polymerization of Isocyanate at Room Temperature, Lanthanoid Alkoxide as Novel Initiator. Journal of Macromolecular Science - Pure and Applied Chemistry, 1997, 34, 1907-1920.	1.2	9
33	Polymer cyclization inhibits thermal decomposition of carbon-dioxide-derived poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.5	9
34	Irreversible photoisomerization behavior of 2-stilbazoleThe IUPAC name for 2-stilbazole is 2-styrylpyridine. covalently bound to porphyrin. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 1826-1830.	1.3	8
35	Alternating Copolymerization of Carbon Dioxide and Epoxide-Recent Advances. Kobunshi Ronbunshu, 2005, 62, 131-146.	0.2	8
36	The Control of Living Anionic Polymerization by Metalloporphyrins. Bulletin of the Chemical Society of Japan, 1995, 68, 1239-1246.	2.0	7

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37	Carbon Dioxide-Derived Immortal Brush Macromolecules with Poly(propylene carbonate) Side Chains. Macromolecules, 2016, 49, 6810-6816.	2.2	7
38	Highâ€speed living polymerization with a new catalyst system based on metalloporphyrin. Makromolekulare Chemie Macromolecular Symposia, 1992, 64, 151-158.	0.6	6
39	Metalloporphyrin catalysts for living and immortal polymerizations. Macromolecular Symposia, 1996, 101, 11-18.	0.4	6
40	Lanthanoid alkoxide as a novel initiator for the synthesis of polyester via polymerization of ketenes. Macromolecular Chemistry and Physics, 1998, 199, 1651-1655.	1.1	6
41	Copolymerization of carbon dioxide and oxetane catalyzed by aluminum porphyrin complex system. Journal of Polymer Science, 2021, 59, 3122-3130.	2.0	5
42	Isocyanurates with Planar Chirality: Design, Optical Resolution, and Isomerization. Chirality, 2012, 24, 867-878.	1.3	4
43	Alternating Copolymerization of Carbon Dioxide and Epoxide by Zinc N-Substituted Porphyrins. Kobunshi Ronbunshu, 2007, 64, 676-682.	0.2	3
44	Alternating terpolymerization of carbon dioxide, propylene oxide, and various epoxides with bulky side groups for the tuning of thermal properties. Polymer Journal, 2021, 53, 121-127.	1.3	3
45	Novel catalyst system for the synthesis of poly(alkylene oxide) with controlled molecular weight. Macromolecular Symposia, 1994, 88, 117-122.	0.4	1
46	Controlled macromolecular synthesis by the nucleophile/lewis acid binary systems. Macromolecular Symposia, 1997, 118, 169-175.	0.4	1
47	Alternating Copolymerization of Carbon Dioxide and Epoxide [2]. The First Example of Polycarbonate Synthesis from 1-atm Carbon Dioxide by Manganese Porphyrin.. Studies in Surface Science and Catalysis, 2004, 153, 247-250.	1.5	1
48	Alternating Copolymerization of Carbon Dioxide and Epoxide by a Nickel Thiaporphyrin Complex. Kobunshi Ronbunshu, 2013, 70, 544-549.	0.2	1
49	Carbon dioxide fixation with lanthanoid complex. Studies in Surface Science and Catalysis, 1998, 114, 503-504.	1.5	0
50	Irreversible Photoisomerization Behavior of 2-Stilbazole Covalently Bound to Porphyrin.. ChemInform, 2003, 34, no.	0.1	0
51	Alternative Copolymerization of Carbon Dioxide and Epichlorohydrin, and Successive Quaternization of Obtained Aliphatic Polycarbonate. Kobunshi Ronbunshu, 2017, 74, 534-541.	0.2	0
52	Polymer Synthesis via Catalytic Fixation of Carbon Dioxide. Oleoscience, 2008, 8, 217-224.	0.0	0
53	Carbon Dioxide/Epoxide Alternating Copolymer. Seikei-Kakou, 2011, 23, 532-536.	0.0	0
54	Design of Novel Initiator by Transformation of the Growing Species in Anionic Polymerization of Heterocumulene. Kobunshi, 1998, 47, 84-84.	0.0	0