

Suguru Motokucho

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

725
citations

567144

15
h-index

580701

25
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51
all docs

51
docs citations

51
times ranked

907
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-Mechanical Property Relationships for Poly(carbonate urethane) Elastomers with Novel Soft Segments. <i>Macromolecules</i> , 2009, 42, 8322-8327.	2.2	85
2	Simultaneous small-angle X-ray scattering/wide-angle X-ray diffraction study of the microdomain structure of polyurethane elastomers during mechanical deformation. <i>Polymer Journal</i> , 2011, 43, 692-699.	1.3	59
3	Controlled monomer insertion into polymer main chain: synthesis of sequence ordered polystyrene containing thiourethane and trithiocarbonate units by the RAFT process Electronic supplementary information (ESI) available: ¹ H and ¹³ C-NMR spectra of polymer precursor 4 and polymer 5. See http://www.rsc.org/suppdata/cc/b2/b205523fl . <i>Chemical Communications</i> , 2002, , 1946-1947.	2.2	48
4	Effects of hard- and soft-segment composition on pyrolysis characteristics of MDI, BD, and PTMG-based polyurethane elastomers. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 126, 337-345.	2.6	43
5	Environment-friendly chemical recycling of aliphatic polyurethanes by hydrolysis in a CO_2 -water system. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45897.	1.3	37
6	Porous In_2O_3 powders prepared by ultrasonic-spray pyrolysis as a NO_2 -sensing material: Utilization of polymethylmethacrylate microspheres synthesized by ultrasonic-assisted emulsion polymerization as a template. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 495-502.	4.0	34
7	Synthesis of cyclic trithiocarbonates from cyclic ethers and carbon disulfide catalyzed by titanium complex. <i>Tetrahedron</i> , 2001, 57, 7149-7152.	1.0	33
8	Novel Polyurethane-Catalyzed Cyclic Carbonate Synthesis Using CO_2 and Epoxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4337-4340.	3.2	29
9	Temperature-dependent pyrolysis behavior of polyurethane elastomers with different hard- and soft-segment compositions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 145, 104754.	2.6	28
10	Two Diastereomers of <i>d</i> -Limonene-Derived Cyclic Carbonates from <i>d</i> -Limonene Oxide and Carbon Dioxide with a Tetrabutylammonium Chloride Catalyst. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 92-94.	2.0	23
11	Hydrolysis of aromatic polyurethane in water under high pressure of CO_2 . <i>Journal of Polymer Science Part A</i> , 2017, 55, 2004-2010.	2.5	22
12	Synthesis of a novel cyclic 5-membered dithiocarbonate (DTC) having hydroxy group and its application to terminal functionalization of polyurethane. <i>Journal of Polymer Science Part A</i> , 2005, 43, 3711-3717.	2.5	21
13	The effect of cross-linking density and dangling chains on surface molecular mobility of network polyurethanes. <i>Polymer Chemistry</i> , 2012, 3, 2287.	1.9	20
14	Difference in polystyrene oxo-biodegradation behavior between copper phthalocyanine modified TiO_2 and ZnO paint photocatalyst systems. <i>Polymer Degradation and Stability</i> , 2015, 120, 1-9.	2.7	17
15	Systematic synthetic study of four diastereomerically distinct limonene-1,2-diols and their corresponding cyclic carbonates. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 130-136.	1.3	17
16	Poly(hydroxyurethane): catalytic applicability for the cyclic carbonate synthesis from epoxides and CO_2 . <i>Chemical Communications</i> , 2020, 56, 10678-10681.	2.2	17
17	Polymer having a trithiocarbonate moiety in the main chain: Application to reversible addition-fragmentation chain transfer controlled thermal and photoinduced monomer insertion polymerizations. <i>Journal of Polymer Science Part A</i> , 2006, 44, 6324-6331.	2.5	16
18	Synthesis and activity characteristics of visible light responsive polymer photocatalyst system with a styrene block copolymer containing TiO_2 gel. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 210-217.	5.0	14

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19	Efficient and environmental-friendly dehydration of fructose to 5-hydroxymethyl-2-furfural in water under high pressure of CO ₂ . <i>Tetrahedron Letters</i> , 2016, 57, 4742-4745.	0.7	13
20	Synthesis of an aliphatic hyper-branched polycarbonate and determination of its physical properties for solid polymer electrolyte use. <i>Polymer</i> , 2018, 145, 194-201.	1.8	13
21	Reaction of carbon dioxide with glycidol: The synthesis of a novel hyperbranched oligomer with a carbonate main chain with a hydroxyl terminal. <i>Journal of Polymer Science Part A</i> , 2004, 42, 2506-2511.	2.5	11
22	Hydrolysis of polyurea under high pressure of carbon dioxide. <i>Polymer Bulletin</i> , 2017, 74, 615-623.	1.7	11
23	Controlled polymerization of an AB ₂ monomer using a chloromethylarene as comonomer: branched polymers from activated methylene compounds. <i>Macromolecular Rapid Communications</i> , 1998, 19, 41-46.	2.0	9
24	Living cationic ring-opening polymerization of five-membered cyclic dithiocarbonate controlled by neighboring group participation of carbamate group. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4459-4464.	2.5	9
25	Synthesis and association behavior of cationic amphiphilic copolymers consisting of quaternary ammonium and nonionic surfactant moieties. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5022-5030.	2.5	9
26	Selective decomposition of hexabromocyclododecane in polystyrene with a photo and thermal hybrid treatment system. <i>Polymer Degradation and Stability</i> , 2017, 143, 130-135.	2.7	9
27	Polyamide 6 Fibers with Superior Mechanical Properties: TPU Coating Techniques. <i>Journal of Fiber Science and Technology</i> , 2009, 65, 236-240.	0.0	8
28	Physical properties of poly(tetrahydrofuran)-block-poly(2-ethyl-2-oxazoline) triblock copolymer. <i>Polymer Journal</i> , 2013, 45, 1115-1119.	1.3	8
29	A new series of cyclic 5-membered dithiocarbonates having urethane tether: Application as an adhesion promoter to epoxy-amine curing system. <i>Journal of Polymer Science Part A</i> , 2008, 46, 2588-2592.	2.5	7
30	Photodegradation behavior of waterborne polyurethanes with different segment distributions and lengths. <i>Progress in Organic Coatings</i> , 2016, 97, 269-276.	1.9	7
31	Photochemical Formation of a Core-crosslinked Micelle using an Anthracene-containing Amphiphilic Copolymer. <i>Chemistry Letters</i> , 2010, 39, 682-683.	0.7	6
32	Difference in polypropylene fragmentation mechanism between marine and terrestrial regions. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	6
33	Polystyrene photodegradation with a styrene block copolymer containing TiO ₂ nanoparticle. <i>Polymer Degradation and Stability</i> , 2016, 130, 135-142.	2.7	5
34	A study on recyclable waterborne polyurethane process with a photo and thermal hybrid treatment system. <i>Reactive and Functional Polymers</i> , 2018, 127, 168-176.	2.0	5
35	Effective dispersion of fullerene with methacrylate copolymer in organic solvent and poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overloc	1.0	3
36	Inclusion of fullerene in polymer chains grafted on silica nanoparticles in an organic solvent. <i>Polymer Journal</i> , 2014, 46, 623-627.	1.3	3

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37	Water- and Moisture-sensitive Polymeric Releasing System by Hydrolysis of Acetal Moieties Coexisting with Acidic Units. <i>Chemistry Letters</i> , 2014, 43, 1746-1748.	0.7	3
38	Preparation of novel polypropylene oligomer compatibilizer for polypropylene/microfibrous cellulose composite and its addition effect. <i>Polymer Bulletin</i> , 2015, 72, 2633-2647.	1.7	3
39	Improvement of the Low-Temperature Property of Aliphatic Polycarbonate Glycols-Based Polyurethane Elastomers. <i>Science of Advanced Materials</i> , 2015, 7, 934-939.	0.1	3
40	Preparation of a novel oligomer type compatibilizer for polypropylene/polystyrene blend. <i>Reactive and Functional Polymers</i> , 2021, 169, 105090.	2.0	3
41	Chain and microphase-separated structures of ultrathin polyurethane films. <i>Journal of Physics: Conference Series</i> , 2009, 184, 012028.	0.3	2
42	Microphase-Separated Structure and Dynamic Viscoelastic Properties of Polyurethanes Elastomers Prepared at Various Temperatures and Cross-Linking Agent Contents. <i>Nihon Reoroji Gakkaishi</i> , 2014, 42, 143-149.	0.2	2
43	A relationship between electrical conductivity and photodegradation in styrene-butadiene copolymer/multi-wall carbon nanotube composite. <i>Polymer Bulletin</i> , 2017, 74, 1193-1206.	1.7	2
44	Methanolysis of the Polyurea in Subcritical or Supercritical Carbon Dioxide. <i>Nippon Gomu Kyokaishi</i> , 2012, 85, 157-161.	0.0	1
45	Influence of Side Group Contents of Polycarbonate Glycol on Aggregation Structures and Mechanical Properties of Polyurethane Elastomers. <i>Nippon Gomu Kyokaishi</i> , 2012, 85, 151-156.	0.0	1
46	Molecular Mobility of Soft Segment of Polyurethane Elastomers under Elongation. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
47	Synthesis of ZnO Nanoparticles Using Reverse Micelles of Block Copolymer Hybridized with ZnO/PMMA. <i>Kobunshi Ronbunshu</i> , 2014, 71, 644-650.	0.2	0
48	Selective decomposition of hexabromocyclododecane in polystyrene and recyclability improvement of its polymeric component. <i>Polymer Degradation and Stability</i> , 2019, 166, 40-49.	2.7	0
49	OS15-1-3 Microphase-separated structure and mechanical properties of polycarbonate (PC) glycols and polyurethanes incorporating PC glycols. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2007, 2007.6. OS15-1-3- OS15-1-3-	0.0	0
50	Development of Environmentally Friendly Polyurethane Degradation Methods. <i>Journal of the Adhesion Society of Japan</i> , 2018, 54, 343-348.	0.0	0