

Suguru Motokucho

List of Publications by Year in descending order

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50
papers

725
citations

567144

15
h-index

580701

25
g-index

51
all docs

51
docs citations

51
times ranked

907
citing authors

#	ARTICLE	IF	CITATIONS
1	Difference in polypropylene fragmentation mechanism between marine and terrestrial regions. SN Applied Sciences, 2021, 3, 1.	1.5	6
2	Preparation of a novel oligomer type compatibilizer for polypropylene/polystyrene blend. Reactive and Functional Polymers, 2021, 169, 105090.	2.0	3
3	Temperature-dependent pyrolysis behavior of polyurethane elastomers with different hard- and soft-segment compositions. Journal of Analytical and Applied Pyrolysis, 2020, 145, 104754.	2.6	28
4	Poly(hydroxyurethane): catalytic applicability for the cyclic carbonate synthesis from epoxides and CO ₂ . Chemical Communications, 2020, 56, 10678-10681.	2.2	17
5	Novel Polyurethane-Catalyzed Cyclic Carbonate Synthesis Using CO ₂ and Epoxide. ACS Sustainable Chemistry and Engineering, 2020, 8, 4337-4340.	3.2	29
6	Systematic synthetic study of four diastereomerically distinct limonene-1,2-diols and their corresponding cyclic carbonates. Beilstein Journal of Organic Chemistry, 2019, 15, 130-136.	1.3	17
7	Selective decomposition of hexabromocyclododecane in polystyrene and recyclability improvement of its polymeric component. Polymer Degradation and Stability, 2019, 166, 40-49.	2.7	0
8	Environmentally friendly chemical recycling of aliphatic polyurethanes by hydrolysis in a CO ₂ -water system. Journal of Applied Polymer Science, 2018, 135, 45897.	1.3	37
9	Two Diastereomers of <i>d</i> -Limonene-Derived Cyclic Carbonates from <i>d</i> -Limonene Oxide and Carbon Dioxide with a Tetrabutylammonium Chloride Catalyst. Bulletin of the Chemical Society of Japan, 2018, 91, 92-94.	2.0	23
10	Synthesis and activity characteristics of visible light responsive polymer photocatalyst system with a styrene block copolymer containing TiO ₂ gel. Journal of Colloid and Interface Science, 2018, 532, 210-217.	5.0	14
11	Synthesis of an aliphatic hyper-branched polycarbonate and determination of its physical properties for solid polymer electrolyte use. Polymer, 2018, 145, 194-201.	1.8	13
12	A study on recyclable waterborne polyurethane process with a photo and thermal hybrid treatment system. Reactive and Functional Polymers, 2018, 127, 168-176.	2.0	5
13	Development of Environmentally Friendly Polyurethane Degradation Methods. Journal of the Adhesion Society of Japan, 2018, 54, 343-348.	0.0	0
14	A relationship between electrical conductivity and photodegradation in styrene-butadiene copolymer/multi-wall carbon nanotube composite. Polymer Bulletin, 2017, 74, 1193-1206.	1.7	2
15	Effects of hard- and soft-segment composition on pyrolysis characteristics of MDI, BD, and PTMG-based polyurethane elastomers. Journal of Analytical and Applied Pyrolysis, 2017, 126, 337-345.	2.6	43
16	Hydrolysis of aromatic polyurethane in water under high pressure of CO ₂ . Journal of Polymer Science Part A, 2017, 55, 2004-2010.	2.5	22
17	Selective decomposition of hexabromocyclododecane in polystyrene with a photo and thermal hybrid treatment system. Polymer Degradation and Stability, 2017, 143, 130-135.	2.7	9
18	Hydrolysis of polyurea under high pressure of carbon dioxide. Polymer Bulletin, 2017, 74, 615-623.	1.7	11

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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	Photodegradation behavior of waterborne polyurethanes with different segment distributions and lengths. <i>Progress in Organic Coatings</i> , 2016, 97, 269-276.	1.9	7
21	Polystyrene photodegradation with a styrene block copolymer containing TiO ₂ nanoparticle. <i>Polymer Degradation and Stability</i> , 2016, 130, 135-142.	2.7	5
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	Physical properties of poly(tetrahydrofuran)-block-poly(2-ethyl-2-oxazoline) triblock copolymer. <i>Polymer Journal</i> , 2013, 45, 1115-1119.	1.3	8
30	Porous In ₂ O 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
31	Methanolysis of the Polyurea in Subcritical or Supercritical Carbon Dioxide. <i>Nippon Gomu Kyokaishi</i> , 2012, 85, 157-161.	0.0	1
32	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
33	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
34	Effective dispersion of fullerene with methacrylate copolymer in organic solvent and poly(methyl methacrylate) copolymer. <i>Polymer</i> , 2010, 51, 1030-1034.	1.0	3
35	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
36	Photochemical Formation of a Core-crosslinked Micelle using an Anthracene-containing Amphiphilic Copolymer. <i>Chemistry Letters</i> , 2010, 39, 682-683.	0.7	6

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37	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
38	Structure-Mechanical Property Relationships for Poly(carbonate urethane) Elastomers with Novel Soft Segments. <i>Macromolecules</i> , 2009, 42, 8322-8327.	2.2	85
39	Chain and microphase-separated structures of ultrathin polyurethane films. <i>Journal of Physics: Conference Series</i> , 2009, 184, 012028.	0.3	2
40	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
41	Molecular Mobility of Soft Segment of Polyurethane Elastomers under Elongation. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
42	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
43	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
44	OS15-1-3 Microphase-separated structure and mechanical properties of polycarbonate (PC) glycols and polyurethanes incorporating PC glycols. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 6, OS15-1-3- OS15-1-3-.	0.0	0
45	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
46	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
47	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
48	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/b205523f/ . <i>Chemical Communications</i> , 2002, , 1946-1947.	2.2	48
49	Synthesis of cyclic trithiocarbonates from cyclic ethers and carbon disulfide catalyzed by titanium complex. <i>Tetrahedron</i> , 2001, 57, 7149-7152.	1.0	33
50	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