

Masao Sumita

List of Publications by Year in descending order

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4,738
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117625

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times ranked

3340
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced electrochromic switching speed and electrochemical stability of conducting polymer film on an ionic liquid functionalized ITO electrode. <i>New Journal of Chemistry</i> , 2015, 39, 5329-5335.	2.8	18
2	Formation and structure of fine multi-particle layered organo-modified zirconium dioxides fabricated by Langmuir-Blodgett technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 446, 109-117.	4.7	22
3	Guest-Induced Crystal-to-Crystal Transitions of Poly(<i>l</i> -lactide) Complexes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 385-397.	2.6	50
4	Crystal structures of poly(<i>l</i> -lactide)-CO ₂ complex and its emptied form. <i>Polymer</i> , 2012, 53, 4262-4271.	3.8	37
5	Complex Crystal Formation of Poly(<i>l</i> -lactide) with Solvent Molecules. <i>Macromolecules</i> , 2012, 45, 1384-1397.	4.8	137
6	Utilization of polymer degradation to modify electrical properties of poly(<i>l</i> -lactide)/poly(methyl methacrylate) blends. <i>Journal of Applied Polymer Science</i> , 2010, 117, 50-54.	7.8	12
7	Bioactivity and mechanical properties of CaSiO ₃ /high-density polyethylene (HDPE) composites prepared by a new surface loading method of CaSiO ₃ powder. <i>Materials Research Bulletin</i> , 2009, 44, 298-305.	5.2	5
8	Conductive network formation and electrical properties of poly(vinylidene fluoride)/multiwalled carbon nanotube composites: Percolation and dynamic percolation. <i>Journal of Applied Polymer Science</i> , 2009, 114, 1405-1411.	2.6	29
9	Effect of Humidity on Ionic Conductivity of NBR/Polyether Electrolyte Blends with Microscale Sea-Island Phase Separation. <i>Nippon Gomu Kyokaishi</i> , 2009, 82, 499-506.	0.0	6
10	Crystalline Structure and Morphology of Poly(<i>l</i> -lactide) Formed under High-Pressure CO ₂ . <i>Macromolecules</i> , 2008, 41, 9192-9203.	4.8	140
11	Relation between Ionic Conductivity and Solubility of CO ₂ in Pressurized Solid Polymer Electrolytes. <i>Macromolecules</i> , 2007, 40, 3348-3354.	4.8	8
12	Proton conduction in Nafion composite membranes filled with mesoporous silica. <i>Journal of Power Sources</i> , 2007, 171, 530-534.	7.8	96
13	Miscibility and hydrolytic degradation in alkaline solution of poly(<i>l</i> -lactide) and poly(<i>p</i> -vinyl phenol) blends. <i>Polymer Degradation and Stability</i> , 2007, 92, 1626-1631.	5.8	26
14	Structure and properties of highly stereoregular isotactic poly(methyl methacrylate) and syndiotactic poly(methyl methacrylate) blends treated with supercritical CO ₂ . <i>Polymer</i> , 2007, 48, 5116-5124.	3.8	12
15	Morphology and electrical conductivity of injection-molded polypropylene/carbon black composites with addition of high-density polyethylene. <i>Polymer</i> , 2006, 47, 3599-3608.	3.8	126
16	The effect of high-pressure carbon dioxide treatment on the crystallization behavior and mechanical properties of poly(<i>l</i> -lactic acid)/poly(methyl methacrylate) blends. <i>Polymer</i> , 2006, 47, 3954-3960.	3.8	35
17	Temperature and time dependence of conductive network formation: Dynamic percolation and percolation time. <i>Polymer</i> , 2006, 47, 466-473.	3.8	122
18	Miscibility and hydrolytic degradation in alkaline solution of poly(<i>l</i> -lactide) and poly(methyl methacrylate) blends. <i>Journal of Applied Polymer Science</i> , 2006, 101, 62-68.	3.8	93

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19	Low-frequency sound absorption of organic hybrid comprised of chlorinated polyethylene and N,N'-dicyclohexyl-2-benzothiazolyl sulfenamide. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2878-2884.	2.6	0
20	Biocompatibility of CaSiO ₃ /High-Density Polyethylene Composites Prepared by Hot-Pressing. <i>Key Engineering Materials</i> , 2006, 309-311, 1161-1164.	0.4	1
21	Poly(ethylene oxide)-Based Composite Electrolytes Filled with Periodic Mesoporous Silica for Solid State Ionics. <i>E-Journal of Soft Materials</i> , 2005, 1, 14-19.	2.0	7
22	A novel composite polymer electrolyte: Effect of mesoporous SiO ₂ on ionic conduction in poly(ethylene oxide)-LiCF ₃ SO ₃ complex. <i>Journal of Power Sources</i> , 2005, 146, 402-406.	7.8	97
23	Ionic conductivity studies of poly(ethylene oxide)-lithium salt electrolytes in high-pressure carbon dioxide. <i>Polymer</i> , 2005, 46, 8113-8118.	3.8	9
24	Ion-conductive properties of mesoporous silica-filled composite polymer electrolytes. <i>Electrochimica Acta</i> , 2005, 50, 3949-3954.	5.2	22
25	Temperature dependence of electrical resistivity for carbon black filled ultra-high molecular weight polyethylene composites prepared by hot compaction. <i>Carbon</i> , 2005, 43, 2544-2553.	10.3	167
26	Resistivity control in the semiconductive region for carbon-black-filled polymer composites. <i>Colloid and Polymer Science</i> , 2005, 283, 367-374.	2.1	9
27	Relationship between electrical resistivity and particle dispersion state for carbon black filled poly(ethylene-co-vinyl acetate)/poly(L-lactic acid) blend. <i>Colloid and Polymer Science</i> , 2005, 284, 134-141.	2.1	50
28	An approach to one-dimensional conductive polymer composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 184-189.	2.1	40
29	A study on correlation between physical properties and interfacial characteristics in highly loaded graphite-polymer composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 2568-2577.	2.1	31
30	Specific ionic conduction in poly[oligo(oxyethylene glycol) methacrylate] (PMEO)-Li salt complexes under high-pressure CO ₂ . <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 3151-3158.	2.1	6
31	Dielectric relaxation behavior of poly(methyl methacrylate) under high-pressure carbon dioxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 2951-2962.	2.1	15
32	Viscoelasticity and morphology of an organic hybrid of chlorinated polyethylene and N,N'-dicyclohexyl-2-benzothiazolyl sulfenamide. <i>Composite Interfaces</i> , 2005, 12, 637-653.	2.3	2
33	Fast Ionic Conduction in PEO-Based Composite Electrolyte Filled with Ionic Liquid-Modified Mesoporous Silica. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A22.	2.2	31
34	Characterization of Higher-Order Structure of Poly(ethylene-2,6-naphthalate) Treated with Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005, 38, 6544-6550.	4.8	27
35	Seikei-Kakou, 2004, 16, 762-767.		2
36	Effect of reaction kinetics of polymer electrolyte on the ion-conductive behavior for poly(oligo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.6	2

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37	Improvement of the ionic conductivity for amorphous polyether electrolytes using supercritical CO ₂ treatment technology. <i>Electrochimica Acta</i> , 2003, 48, 1991-1995.	5.2	14
38	In situ study of ionic conductivity for polyether-LiCF ₃ SO ₃ electrolytes with subcritical and supercritical CO ₂ . <i>Polymer</i> , 2003, 44, 4769-4772.	3.8	11
39	AC complex impedance measurement of comb-like type polyether electrolytes under high-pressure carbon dioxide. <i>Electrochimica Acta</i> , 2003, 48, 4069-4075.	5.2	11
40	Dynamics of electric field induced particle alignment in nonpolar polymer matrix. <i>Applied Physics Letters</i> , 2003, 83, 3791-3793.	3.3	26
41	Effect of Supercritical Carbon Dioxide Processing on Ionic Association and Conduction in a Crystalline Poly(ethylene oxide)-LiCF ₃ SO ₃ Complex. <i>Macromolecules</i> , 2003, 36, 8766-8772.	4.8	37
42	The Effect of Supercritical CO ₂ on the Macromolecules Parallel Conformation and Its Relation to the Electrical Conductivity and Dielectric Behavior of Epichlorohydrin Terpolymer. <i>Journal of Macromolecular Science - Physics</i> , 2003, 42, 1021-1038.	1.0	0
43	Electrical and Mechanical Properties of Surface Fluorinated Carbon Black Filled Polymer Composite. <i>Nippon Gomu Kyokaishi</i> , 2003, 76, 375-380.	0.0	2
44	Entropy Penalty-Induced Self-Assembly in Carbon Black or Carbon Fiber Filled Polymer Blends. <i>Macromolecules</i> , 2002, 35, 945-951.	4.8	126
45	Carbon Black as a Self-Diagnosing Probe To Trace Polymer Dynamics in Highly Filled Compositions. <i>Macromolecules</i> , 2002, 35, 1708-1713.	4.8	96
46	Damping performance of polymer blend/organic filler hybrid materials with selective compatibility. <i>Materials Letters</i> , 2002, 52, 96-99.	2.6	35
47	Improvement of the ionic conductivity for PEO-LiCF ₃ SO ₃ complex by supercritical CO ₂ treatment. <i>Materials Letters</i> , 2002, 57, 777-780.	2.6	13
48	Properties of Acrylic Rubber/Organic Filler Hybrid Damping Materials. <i>Nippon Gomu Kyokaishi</i> , 2001, 74, 35-40.	0.0	2
49	Relationship between electric current and matrix modulus in electrorheological elastomers. <i>Journal of Electrostatics</i> , 2001, 50, 303-312.	1.9	12
50	Electrical characteristics of fluorinated carbon black-filled poly(vinylidene fluoride) composites. <i>Journal of Applied Polymer Science</i> , 2001, 80, 1063-1070.	2.6	26
51	Crystallization Behavior of Chlorinated Polyethylene/N,N'-Dicyclohexyl-2-benzothiazolylsulfenamide Organic Hybrid I.. <i>Journal of Fiber Science and Technology</i> , 2001, 57, 47-53.	0.0	1
52	Effect of the soft segment on the fatigue behavior of segmented polyurethanes. <i>European Polymer Journal</i> , 2000, 36, 2039-2050.	5.4	31
53	Cure and reaction kinetics of an anhydride-cured epoxy resin catalyzed by N-benzylpyrazinium salts using near-infrared spectroscopy. <i>Polymer Engineering and Science</i> , 2000, 40, 2569-2576.	3.1	21
54	Electrical and dynamic mechanical behavior of BaTiO ₃ /VGCF/LDPE composite. <i>Composite Interfaces</i> , 2000, 7, 411-424.	2.3	3

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55	A delay of percolation time in carbon-black-filled conductive polymer composites. <i>Journal of Applied Physics</i> , 2000, 88, 1480-1487.	2.5	105
56	Time-Resolved FTIR Study of Crystallization Behavior of Melt-Crystallized Poly(Phenylene Sulfide). <i>Journal of Macromolecular Science - Physics</i> , 2000, 39, 279-296.	1.0	12
57	Structural Studies of Biodegradable Polymer and Fractal. (Part 4). Fine Structure and Degradation Behavior of Poly(L-lactic acid) and Poly(butylene succinate) Blends.. <i>Journal of Fiber Science and Technology</i> , 2000, 56, 363-370.	0.0	3
58	Damping Behavior of Chlorinated Polyethylene/N,N'-Dicyclohexyl-2-benzothiazolylsulfenamide Organic Hybrid.. <i>Journal of Fiber Science and Technology</i> , 2000, 56, 443-448.	0.0	3
59	Electrical properties of epoxy resin filled with carbon fibers. <i>Journal of Materials Science</i> , 1999, 34, 5589-5592.	3.7	58
60	Suspension of layered particles: an optimum electrorheological fluid for d.c. applications. <i>Rheologica Acta</i> , 1999, 38, 478-483.	2.4	21
61	A Self-Assembled Electric Conductive Network in Short Carbon Fiber Filled Poly(methyl methacrylate) Composites with Selective Adsorption of Polyethylene. <i>Macromolecules</i> , 1999, 32, 3534-3536.	4.8	62
62	Morphology and electrical properties of short carbon fiber-filled polymer blends: High-density polyethylene/poly(methyl methacrylate). <i>Journal of Applied Polymer Science</i> , 1998, 69, 1813-1819.	2.6	89
63	Electrical conductivity of short carbon fiber filled HDPE/PMMA blends: effect of molding temperature and time. <i>Composite Interfaces</i> , 1998, 6, 287-296.	2.3	18
64	Positive Temperature Coefficient Effect of Epoxy Resin Filled with Short Carbon Fibers. <i>Polymer Journal</i> , 1998, 30, 381-387.	2.7	42
65	Selective location of the filler and double percolation of Ketjenblack filled High Density Polyethylene/Isotactic Polypropylene blends. <i>Composite Interfaces</i> , 1998, 6, 227-236.	2.3	28
66	Structural Studies of Biodegradable Polymer and Fractal. (Part 3). Fractal and Degradation Process of Biodegradable Polyester Blends.. <i>Journal of Fiber Science and Technology</i> , 1998, 54, 277-284.	0.0	9
67	Physical Properties of Polyurethane Blend Dope-Coated Fabrics. <i>Textile Research Journal</i> , 1997, 67, 601-608.	2.2	15
68	Sound and Vibration Damping Polymers Free from Mass Law.. <i>Kobunshi</i> , 1997, 46, 116-119.	0.0	2
69	Relationship between rigid amorphous fraction and structural changes of poly(phenylene sulfide) on thermal treatment. <i>Journal of Macromolecular Science - Physics</i> , 1997, 36, 381-394.	1.0	14
70	Structural Studies of Biodegradable Polymer with Fractal (Part 2). Fractal and Structure of Poly(L-Lactic Acid) in Fragmentation.. <i>Journal of Fiber Science and Technology</i> , 1997, 53, 265-271.	0.0	3
71	Studies on Fiber and Geometry Using a String Shape Model (Part 3). Analysis of the Relationship between Patterns of Textiles and Information by means of Fractal Images and Dimensions.. <i>Journal of Fiber Science and Technology</i> , 1997, 53, 272-280.	0.0	0
72	Percolation Concept: Polymer-Filler Gel Formation, Electrical Conductivity and Dynamic Electrical Properties of Carbon-Black-Filled Rubbers. <i>Polymer Journal</i> , 1996, 28, 121-126.	2.7	94

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73	Thermal Behavior of Rigid Amorphous Phase in Poly(ethylene naphthalene-2,6-dicarboxylate) Film.. Journal of Fiber Science and Technology, 1996, 52, 631-638.	0.0	4
74	Morphologies and Properties of Injection Molded Specimens of Polypropylene/High Density Polyethylene/Carbon Black Composites.. Kobunshi Ronbunshu, 1996, 53, 745-753.	0.2	5
75	Effect of interfacial energy and viscosity on percolation time of carbon black-filled poly(methyl Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	1.0	45
76	Studies on Geometry Using Fiber and String Shape Model. (Part 1). Plane-Filling Curves Using String-systems and Their Applications to Textile Goods.. Journal of Fiber Science and Technology, 1995, 51, 313-322.	0.0	0
77	Studies of Relationships between Elastic Modulus and Damping Performance in Piezoelectric Damping Composites.. Nippon Gomu Kyokaishi, 1994, 67, 564-569.	0.0	2
78	Effect of Interfacial Free Energy on the Heterogeneous Distribution of Oxidized Carbon Black in Polymer Blends.. Polymer Journal, 1992, 24, 415-420.	2.7	65
79	Estimation of Surface Free Energy of Oxidized Carbon Black.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1991, 1991, 1672-1676.	0.1	4
80	Mechanical Dampers Using Piezoelectric Composites. Journal of the Ceramic Society of Japan, 1991, 99, 1135-1137.	1.3	9
81	Effect of oxidized carbon black on the mechanical properties and molecular motions of natural rubber studied by pulse NMR. Journal of Applied Polymer Science, 1991, 43, 1253-1257.	2.6	39
82	Title is missing!. Die Makromolekulare Chemie Rapid Communications, 1991, 12, 657-661.	1.1	34
83	Dispersion of fillers and the electrical conductivity of polymer blends filled with carbon black. Polymer Bulletin, 1991, 25, 265-271.	3.3	951
84	Effect of molecular weight distribution on the structure and mechanical properties of ultradrawn, ultrahigh-molecular-weight polyethylene cast from solution. I. Thermoluminescence and NMR. Journal of Polymer Science, Part B: Polymer Physics, 1989, 27, 2427-2440.	2.1	5
85	Characterization of fatigue of segmented polyurethane by using thermoluminescence and pulse NMR. Journal of Macromolecular Science - Physics, 1989, 28, 309-327.	1.0	8
86	Dispersion of fillers in particulated-filled polymers.. Nippon Gomu Kyokaishi, 1989, 62, 438-444.	0.0	3
87	Thermoluminescence and NMR studies of segmented poly(urethane ureas) in relation to phase separation and deformation. Macromolecules, 1988, 21, 3424-3430.	4.8	9
88	Effect of melt viscosity and surface tension of polymers on the percolation threshold of conductive-particle-filled polymeric composites. Journal of Macromolecular Science - Physics, 1986, 25, 171-184.	1.0	129
89	Mechanical properties of drawn poly(methyl methacrylate) filled with ultrafine particles. Polymer Composites, 1986, 7, 36-41.	4.6	2
90	Dynamic mechanical properties of polypropylene composites filled with ultrafine particles. Journal of Applied Polymer Science, 1984, 29, 1523-1530.	2.6	99

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91	Mechanical properties of oriented polyvinylchloride composites filled with ultrafine particles. Colloid and Polymer Science, 1984, 262, 103-109.	2.1	5
92	Tensile yield stress of polypropylene composites filled with ultrafine particles. Journal of Materials Science, 1983, 18, 1758-1764.	3.7	133
93	Effect of reducible properties of temperature, rate of strain, and filler content on the tensile yield stress of nylon 6 composites filled with ultrafine particles. Journal of Macromolecular Science - Physics, 1983, 22, 601-618.	1.0	127
94	Title is missing!. Kobunshi Ronbunshu, 1983, 40, 203-210.	0.2	21
95	Effect of ultrafine particles on the elastic properties of oriented low-density polyethylene composites. Journal of Applied Polymer Science, 1982, 27, 3059-3066.	2.6	37
96	Electrical conductivity of carbon-polymer composites as a function of carbon content. Journal of Materials Science, 1982, 17, 1610-1616.	3.7	446
97	Effect of drawing on the melting point and heat of fusion of polyethylene. Journal of Polymer Science, Polymer Physics Edition, 1977, 15, 837-846.	1.0	19
98	THE MOLECULAR ORIENTATION OF AMORPHOUS CHAINS IN POLYMER FILMS FROM FLUORESCENCE POLARIZATION. Journal of Fiber Science and Technology, 1974, 30, T566-T570.	0.0	0