

Hiromu Saito

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

1,989
citations

26
h-index

39
g-index

123
ext. papers

2,158
ext. citations

3.6
avg, IF

4.57
L-index

#	Paper	IF	Citations
113	Cooperative progress of crystallization and spinodal decomposition in the blends of dissimilar polycarbonates. <i>Polymer</i> , 2022 , 238, 124418	3.9	0
112	Nucleation Effect of the Chemical Structure of Alkylammonium Salt on the Crystallization Behavior of Poly(Vinylidene Fluoride). <i>Polymer Crystallization</i> , 2022 , 2022, 1-9	0.9	0
111	Foaming of Polymers using Supercritical Fluids. <i>Nippon Gomu Kyokaishi</i> , 2021 , 94, 341-345	0	
110	Strengthening of mille-feuille structured high-density polyethylene by heat elongation. <i>Polymer</i> , 2021 , 124343	3.9	2
109	Control of crystallization in two-phase blends of poly(phenylene sulfide) and poly(vinylpyrrolidone). <i>Polymer Crystallization</i> , 2021 , 4, e10165	0.9	
108	Reduction of birefringence by dynamic asymmetry in miscible blends of dissimilar polycarbonates. <i>Polymer</i> , 2021 , 222, 123632	3.9	2
107	Synergetic toughening of poly(phenylene sulfide) by poly(phenylsulfone) and poly(ethylene-ran-methacrylate-ran-glycidyl methacrylate). <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49994	2.9	4
106	Thermoelectric properties of PEDOT:PSS aerogel secondary-doped in supercritical CO ₂ atmosphere with low thermal conductivity. <i>Polymer</i> , 2020 , 206, 122912	3.9	5
105	UCST Type Phase Boundary and Accelerated Crystallization in PTT/PET Blends. <i>Polymers</i> , 2020 , 12,	4.5	3
104	Preparation of epoxy resins derived from lignin solubilized in tetrabutylphosphonium hydroxide aqueous solutions. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 585-591	7.9	12
103	Thermosensitive polysaccharide particles for pulmonary drug delivery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 580, 123720	5.1	4
102	Tensile properties and interfacial adhesion of silicone rubber/polyethylene blends by reactive blending. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46192	2.9	6
101	Ductile-to-brittle transition behavior of low molecular weight polycarbonate under carbon dioxide. <i>Polymer Engineering and Science</i> , 2018 , 58, 683-690	2.3	3
100	Structural Evolution of Two-Phase Blends of Polycarbonate and PMMA by Simultaneous Biaxial Stretching. <i>Polymers</i> , 2018 , 10,	4.5	5
99	Evolution of Filament-Shaped Porous Structure in Polycarbonate by Stretching under Carbon Dioxide. <i>Polymers</i> , 2018 , 10,	4.5	1
98	Structure and deformation recovery of the thermoplastic polyurethane spherulite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 1585-1594	2.6	1
97	Morphological evolution and mechanical property enhancement of natural rubber/polypropylene blend through compatibilization by nanoclay. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	15

96	Phenolic resin-crosslinked natural rubber/clay nanocomposites: Influence of clay loading and interfacial adhesion on strain-induced crystallization behavior. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	9
95	Effects of plasticization and hydrostatic pressure on tensile properties of PMMA under compressed carbon dioxide and nitrogen. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	7
94	Significant correlation between refractive index and activity of mitochondria: single mitochondrion study. <i>Biomedical Optics Express</i> , 2015 , 6, 859-69	3.5	36
93	Relationship between modulus and structure of annealed thermoplastic polyurethane. <i>Materials Today Communications</i> , 2015 , 2, e9-e15	2.5	17
92	Strain-induced crystallization behavior of phenolic resin crosslinked natural rubber/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	11
91	Introduction of Polymer Blends. <i>Seikei-Kakou</i> , 2015 , 27, 120-124	0	
90	Sustainable cycloolefin polymer from pine tree oil for optoelectronics material: living cationic polymerization of ϵ -pinene and catalytic hydrogenation of high-molecular-weight hydrogenated poly(ϵ -pinene). <i>Polymer Chemistry</i> , 2014 , 5, 3222-3230	4.9	65
89	Zero-Birefringence Composition and Orientation Birefringence of PMMA/PVB Blends. <i>Kobunshi Ronbunshu</i> , 2014 , 71, 119-124	0	
88	Birefringence behavior of a flexible S-SEB-S/PPE nano-alloy. <i>Polymer Journal</i> , 2014 , 46, 250-253	2.7	2
87	Flexible and flame-retardant S-SEB-S triblock copolymer/PPE nano-alloy. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	5
86	SAXS study on deformation behavior of isotactic polypropylene under pressurized CO ₂ . <i>Journal of Applied Polymer Science</i> , 2013 , 127, 1228-1236	2.9	11
85	Thermal annealing behavior and structure development of crystalline hard segment domain in a melt-quenched thermoplastic polyurethane. <i>Polymer</i> , 2013 , 54, 2183-2189	3.9	38
84	Surface melting of crystallized poly(vinylidene fluoride) under carbon dioxide. <i>Polymer</i> , 2013 , 54, 2406-2413	3.9	6
83	The optical transparency and structural change of quenched poly(vinylidene fluoride) caused by cold-drawing. <i>Polymer Journal</i> , 2013 , 45, 1033-1040	2.7	18
82	Mechanical properties and network structure of phenol resin crosslinked hydrogenated acrylonitrile-butadiene rubber. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 3396-3403	2.9	17
81	Mechanical properties and microphase structure of hydrogenated S-SB-S triblock copolymers. <i>Polymer Journal</i> , 2013 , 45, 1140-1145	2.7	6
80	Synthesis of aromatic poly(ether ketone)s bearing optically active macrocycles through Suzuki coupling polymerization. <i>Polymer Journal</i> , 2012 , 44, 315-320	2.7	36
79	Intramolecular Friedel-Crafts cyclization and subsequent hydrogenation of styrene-isoprene random copolymers prepared by anionic polymerization for thermally-resistant and optical applications. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 1298-1307	2.5	9

78	Nucleation effect of clay on crystallization of polypropylene under carbon dioxide. <i>Polymer Engineering and Science</i> , 2012 , 52, 2228-2236	2.3	7
77	Crystallization Behavior of Polymer Blends. <i>Kobunshi Ronbunshu</i> , 2011 , 68, 353-369	0	1
76	Light Scattering Method for Analyzing Deformation Behavior of Elastomers. <i>Nippon Gomu Kyokaishi</i> , 2011 , 84, 94-99	0	
75	Fabrication of porous film based on poly(2,6-dimethyl-1,4-phenylene ether) block copolymer by supercritical carbon dioxide treatment. <i>Reactive and Functional Polymers</i> , 2011 , 71, 958-963	4.6	3
74	Dielectric relaxation study of the crystalline chain motion of poly(vinylidene fluoride) under carbon dioxide. <i>Polymer Journal</i> , 2010 , 42, 419-422	2.7	6
73	Perpendicular Orientation of Cylindrical Microdomains in Extruded Triblock Copolymer. <i>Macromolecules</i> , 2010 , 43, 2088-2091	5.5	5
72	Nucleation effect of inclusion complexes with different polyolefin as guest molecules on the crystallization of polypropylene. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 1098-1104	2.9	8
71	Morphology development and exclusion of noncrystalline polymer during crystallization in PVDF/PMMA blends. <i>Polymer</i> , 2010 , 51, 1494-1500	3.9	75
70	Nucleation effect of cyclodextrin inclusion complexes on the crystallization of isotactic poly(1-butene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 389-395	2.6	11
69	The influence of side chains on formation of inclusion complexes prepared with polyolefin and cyclodextrins. <i>Polymer Bulletin</i> , 2009 , 63, 779-788	2.4	5
68	Nucleation effect of cyclodextrin inclusion compounds on the crystallization of polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 130-137	2.6	10
67	Orientation of cylindrical microdomains of triblock copolymers by in situ stress-strain-birefringence measurements. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 715-723	2.6	12
66	Orientation Relaxation of Triblock Copolymer with Cylindrical Microdomain by in situ Stress-Birefringence Measurements. <i>Polymer Journal</i> , 2009 , 41, 562-567	2.7	9
65	Mechanism of Permeability Modification in Polyethylene Foams. <i>Journal of Cellular Plastics</i> , 2008 , 44, 107-123	1.5	9
64	Bleeding Surfactant at the Surface of Polyethylene Blend Films. <i>Kobunshi Ronbunshu</i> , 2008 , 65, 98-103	0	
63	A novel nanoporous structure on the surface of bubbles in polycarbonate foams. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 843-846	2.6	12
62	TfOH-mediated electrophilic aromatic arylation polycondensation of 2,2'-bis[4-(trifluoromethylated aryl)phenoxy]biphenyls with arenedicarbonyl dichlorides. <i>Reactive and Functional Polymers</i> , 2008 , 68, 340-350	4.6	6
61	Growth and Disappearance of Nanobubbles during the Foaming of Polycarbonate. <i>Polymer Journal</i> , 2008 , 40, 339-342	2.7	2

60	Crystallization after Orientation Relaxation in Polypropylene. <i>Polymer Journal</i> , 2008 , 40, 900-904	2.7	7
59	Facile Syntheses of Aromatic Polyesters Bearing Alicyclic Units in the Main Chains. <i>Polymer Journal</i> , 2008 , 40, 629-633	2.7	1
58	Convenient Synthesis of Aromatic Poly(ether ketone)s Containing Alicyclic Units. <i>Polymer Journal</i> , 2008 , 40, 861-866	2.7	3
57	Superior Nanoporous Polyimides via Supercritical CO ₂ Drying of Jungle-Gym-Type Polyimide Gels. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 96-100	4.8	71
56	Light scattering studies on the crystalline morphology of stretched poly(ethylene 2,6-naphthalate) film. <i>Polymer</i> , 2007 , 48, 2395-2403	3.9	4
55	Electrophilic aromatic arylation polycondensation synthesis of wholly aromatic polyketone composed of 2,2'-dimethoxy-1,1'-binaphthyl-6,6'-ene moiety. <i>Reactive and Functional Polymers</i> , 2007 , 67, 1243-1251	4.6	6
54	Synthesis of Wholly Aromatic Polyketones Containing Optically Active Macrocycles. <i>Polymer Journal</i> , 2007 , 39, 342-346	2.7	6
53	Porous structure of crystalline polymers by exclusion effect of carbon dioxide. <i>Polymer</i> , 2006 , 47, 7564-7571	3.9	38
52	Role of Amorphous Region on the Deformation Behavior of Crystalline Polymers. <i>Polymer Journal</i> , 2006 , 38, 542-547	2.7	14
51	Synthesis of optically active aromatic poly(ether ketone)s containing 2,2'-bis(4-benzoylphenoxy)-1,1'-binaphthyl-6,6'-ene backbones. <i>Reactive and Functional Polymers</i> , 2005 , 65, 229-237	4.6	20
50	Development of co-continuous structure in liquid crystalline polyester. <i>Polymer</i> , 2005 , 46, 8313-8320	3.9	6
49	Synthesis of Optically Active Aromatic Poly(ether ketone)s via Nucleophilic Aromatic Substitution Polymerization. <i>Polymer Journal</i> , 2005 , 37, 707-710	2.7	20
48	Nickel Complex-Mediated Synthesis of Optically Active Wholly Aromatic Polyketones Bearing 2,2'-Dimethoxy-1,1'-binaphthyl-6,6'-ene Units. <i>Polymer Journal</i> , 2005 , 37, 736-741	2.7	22
47	Exclusion effect of carbon dioxide on the crystallization of polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 1565-1572	2.6	45
46	Morphology control of polypropylene by crystallization under carbon dioxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 2738-2746	2.6	26
45	Crystallization of polycarbonate induced by spinodal decomposition in polymer blends. <i>Polymer</i> , 2004 , 45, 1027-1032	3.9	60
44	In-Situ Investigation of Liquid-Liquid Phase Separation in Polycarbonate/Carbon Dioxide System. <i>Macromolecules</i> , 2004 , 37, 7358-7363	5.5	17
43	Conformational Change of Phenyl Ring Side Group during Stress Relaxation in Glassy Poly(styrene-co-acrylonitrile). <i>Macromolecules</i> , 2004 , 37, 1062-1066	5.5	19

42	????? ?????????????? Seikei-Kakou, 2004 , 16, 556-560		0
41	Thermal reversibility in crystalline morphology of LLDPE crystallites. <i>Polymer</i> , 2002 , 43, 2101-2107	3.9	22
40	Morphology and Elastomeric Properties of Isotactic Polypropylene/Hydrogenated Polybutadiene Blends. <i>Polymer Journal</i> , 2000 , 32, 915-920	2.7	8
39	Rhythmic Growth of Target and Spiral Spherulites of Crystalline Polymer Blends. <i>Physical Review Letters</i> , 1999 , 83, 2749-2752	7.4	102
38	Morphology and elastomeric properties of isotactic polypropylene/ hydrogenated poly(styrene-co-butadiene) blends: a potential for a new thermoplastic elastomer. <i>Polymer</i> , 1999 , 40, 559-564	3.9	10
37	Physical aging in poly(methyl methacrylate) glass: densification via density fluctuation. <i>Polymer</i> , 1999 , 40, 3729-3733	3.9	38
36	Strain recovery mechanism of PBT/rubber thermoplastic elastomer. <i>Polymer</i> , 1999 , 40, 3657-3663	3.9	26
35	Visualized Polymers. Patterns Formed by Polymeric Systems. I. Polarized Microscopic Texture of High-Birefringence Spherulite.. <i>Kobunshi Ronbunshu</i> , 1999 , 56, 635-638	0	7
34	Effect of Physical Aging on the Stress and Birefringence Relaxation Behaviors in Polycarbonate Glass.. <i>Nihon Reoroji Gakkaishi</i> , 1999 , 27, 43-48	0.8	3
33	Dielectric studies of specific interaction and molecular motion in single-phase mixture of poly(methyl methacrylate) and poly(vinylidene fluoride). <i>Polymer</i> , 1998 , 39, 129-134	3.9	27
32	Phase behaviour and morphology development in a blend of isotactic polypropylene and hydrogenated poly(styrene-co-butadiene). <i>Polymer</i> , 1998 , 39, 1533-1538	3.9	15
31	Persistent lamellar structure in binary blends of polyethylene and hydrogenated butadiene block copolymer. <i>Polymer</i> , 1998 , 39, 1643-1645	3.9	3
30	Polysulfide containing s-triazine rings as a new thermoplastic elastomer: Spherulite morphology and strain recovery behaviour. <i>Polymer</i> , 1998 , 39, 2089-2093	3.9	8
29	Physical characterization of a polyolefinic thermoplastic elastomer. <i>Polymer</i> , 1998 , 39, 3365-3372	3.9	22
28	Crystallization in Polyamide 6/Polysulfone Blends: Effect of Polysulfone Particle Size. <i>Macromolecules</i> , 1998 , 31, 4963-9	5.5	22
27	Spiral Crystal Growth in Blends of Poly(vinylidene fluoride) and Poly(vinyl acetate). <i>Macromolecules</i> , 1998 , 31, 5823-5829	5.5	55
26	Exclusion of non-crystalline polymer from the interlamellar region in polymer blends: poly(ether ether ketone)/poly(ether imide) blend by small-angle X-ray scattering. <i>Polymer</i> , 1997 , 38, 31-34	3.9	13
25	An Immiscibility Loop in Isotactic Polypropylene/Partially Hydrogenated Oligo(styrene-co-indene) Blend. <i>Macromolecules</i> , 1996 , 29, 4274-4277	5.5	18

24	Time-Resolved Small-Angle X-ray Scattering Studies on the Crystallization of Poly(ethylene terephthalate). <i>Macromolecules</i> , 1996 , 29, 7034-7037	5.5	44
23	Morphology Development in Isotactic Polypropylene/Partially Hydrogenated Oligo(styrene-co-indene) Blend. <i>Macromolecules</i> , 1995 , 28, 8096-8101	5.5	26
22	Dielectric study of the crystal-amorphous interphase in poly(vinylidene fluoride)/poly(methyl methacrylate) blends. <i>Polymer</i> , 1994 , 35, 475-479	3.9	31
21	Kinetic studies of crystallization in mixtures of isotactic polystyrene and atactic polystyrene. <i>Polymer</i> , 1994 , 35, 5699-5705	3.9	26
20	Exclusion of noncrystalline polymer from the interlamellar region in poly(vinylidene fluoride)/poly(methyl methacrylate) blends. <i>Macromolecules</i> , 1994 , 27, 216-218	5.5	61
19	Time-resolved light scattering studies on the early stage of crystallization in poly(ethylene terephthalate). <i>Macromolecules</i> , 1993 , 26, 6566-6569	5.5	52
18	Kinetics of crystal growth in mixtures of isotactic polypropylene and liquid paraffin. <i>Polymer</i> , 1993 , 34, 4752-4755	3.9	5
17	Time-resolved light scattering studies on the early stage of crystallization in isotactic polypropylene. <i>Macromolecules</i> , 1992 , 25, 1908-1911	5.5	59
16	Crystal Morphology of Binary Mixtures of Polyoxymethylene and Novolak Resin.. <i>Kobunshi Ronbunshu</i> , 1992 , 49, 175-179	0	2
15	Cooperative chain relaxation in a single-phase mixture of dissimilar polymers: definition and implication of the cooperativity. <i>Macromolecules</i> , 1992 , 25, 1824-1827	5.5	18
14	Light scattering analysis of upper critical solution temperature behavior in a poly(vinylidene fluoride)/poly(methyl methacrylate) blend. <i>Macromolecules</i> , 1992 , 25, 1611-1614	5.5	63
13	Aramid/poly(ether sulphone) blend: crystallization accelerated by the presence of amorphous polymer. <i>Polymer</i> , 1992 , 33, 3210-3214	3.9	17
12	Miscibility of Polyoxymethylene with Novolak Resin.. <i>Kobunshi Ronbunshu</i> , 1991 , 48, 443-447	0	6
11	Crystallization Kinetics of Binary Mixtures of Polyoxymethylene and Novolak Resin.. <i>Kobunshi Ronbunshu</i> , 1991 , 48, 771-774	0	3
10	Depolarized light scattering studies on single-phase mixtures of dissimilar polymers: Evidence for local ordering. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991 , 29, 1541-1546	2.6	12
9	Crystallization kinetics in the mixtures of poly(vinylidene fluoride) and poly(methyl methacrylate): two-step diffusion mechanism. <i>Macromolecules</i> , 1991 , 24, 4446-4449	5.5	49
8	Chain relaxation behavior in single-phase mixtures of dissimilar polymers. <i>Macromolecules</i> , 1991 , 24, 6536-6538	5.5	13
7	Temperature Dependence of the Flory Interaction Parameter in a Single-Phase Mixture of Poly(hydroxy ether of bisphenol-A) and Poly(ether sulfone). <i>Polymer Journal</i> , 1990 , 22, 128-134	2.7	10

6	Effect of nucleating agent on the structure development in isotactic polypropylene/liquid paraffin mixture. <i>Polymer</i> , 1990 , 31, 469-472	3.9	4
5	Nonlinear crystal growth in the mixture of isotactic polypropylene and liquid paraffin. <i>Macromolecules</i> , 1990 , 23, 3865-3868	5.5	26
4	Short-Range Order in a Miscible Polymer Blend. <i>Polymer Journal</i> , 1989 , 21, 357-360	2.7	7
3	Cooperative chain relaxation in miscible polymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1988 , 26, 1761-1768	2.6	19
2	Upper Critical Solution Temperature Behavior in Poly(vinylidene fluoride)/Poly(methyl methacrylate) Blends. <i>Polymer Journal</i> , 1987 , 19, 405-412	2.7	45
1	Chain orientation and intrinsic anisotropy in birefringence-free polymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1987 , 25, 1629-1636	2.6	65