

# Hiromu Saito

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2695230/hiromu-saito-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Rhythmic Growth of Target and Spiral Spherulites of Crystalline Polymer Blends. <i>Physical Review Letters</i> , <b>1999</b> , 83, 2749-2752	7.4	102
112	Morphology development and exclusion of noncrystalline polymer during crystallization in PVDF/PMMA blends. <i>Polymer</i> , <b>2010</b> , 51, 1494-1500	3.9	75
111	Superior Nanoporous Polyimides via Supercritical CO <sub>2</sub> Drying of Jungle-Gym-Type Polyimide Gels. <i>Macromolecular Rapid Communications</i> , <b>2007</b> , 28, 96-100	4.8	71
110	Sustainable cycloolefin polymer from pine tree oil for optoelectronics material: living cationic polymerization of $\epsilon$ -pinene and catalytic hydrogenation of high-molecular-weight hydrogenated poly( $\epsilon$ -pinene). <i>Polymer Chemistry</i> , <b>2014</b> , 5, 3222-3230	4.9	65
109	Chain orientation and intrinsic anisotropy in birefringence-free polymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1987</b> , 25, 1629-1636	2.6	65
108	Light scattering analysis of upper critical solution temperature behavior in a poly(vinylidene fluoride)/poly(methyl methacrylate) blend. <i>Macromolecules</i> , <b>1992</b> , 25, 1611-1614	5.5	63
107	Exclusion of noncrystalline polymer from the interlamellar region in poly(vinylidene fluoride)/poly(methyl methacrylate) blends. <i>Macromolecules</i> , <b>1994</b> , 27, 216-218	5.5	61
106	Crystallization of polycarbonate induced by spinodal decomposition in polymer blends. <i>Polymer</i> , <b>2004</b> , 45, 1027-1032	3.9	60
105	Time-resolved light scattering studies on the early stage of crystallization in isotactic polypropylene. <i>Macromolecules</i> , <b>1992</b> , 25, 1908-1911	5.5	59
104	Spiral Crystal Growth in Blends of Poly(vinylidene fluoride) and Poly(vinyl acetate). <i>Macromolecules</i> , <b>1998</b> , 31, 5823-5829	5.5	55
103	Time-resolved light scattering studies on the early stage of crystallization in poly(ethylene terephthalate). <i>Macromolecules</i> , <b>1993</b> , 26, 6566-6569	5.5	52
102	Crystallization kinetics in the mixtures of poly(vinylidene fluoride) and poly(methyl methacrylate): two-step diffusion mechanism. <i>Macromolecules</i> , <b>1991</b> , 24, 4446-4449	5.5	49
101	Exclusion effect of carbon dioxide on the crystallization of polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2004</b> , 42, 1565-1572	2.6	45
100	Upper Critical Solution Temperature Behavior in Poly(vinylidene fluoride)/Poly(methyl methacrylate) Blends. <i>Polymer Journal</i> , <b>1987</b> , 19, 405-412	2.7	45
99	Time-Resolved Small-Angle X-ray Scattering Studies on the Crystallization of Poly(ethylene terephthalate). <i>Macromolecules</i> , <b>1996</b> , 29, 7034-7037	5.5	44
98	Thermal annealing behavior and structure development of crystalline hard segment domain in a melt-quenched thermoplastic polyurethane. <i>Polymer</i> , <b>2013</b> , 54, 2183-2189	3.9	38
97	Porous structure of crystalline polymers by exclusion effect of carbon dioxide. <i>Polymer</i> , <b>2006</b> , 47, 7564-7571	3.9	38

96	Physical aging in poly(methyl methacrylate) glass: densification via density fluctuation. <i>Polymer</i> , <b>1999</b> , 40, 3729-3733	3.9	38
95	Significant correlation between refractive index and activity of mitochondria: single mitochondrion study. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 859-69	3.5	36
94	Synthesis of aromatic poly(ether ketone)s bearing optically active macrocycles through Suzuki coupling polymerization. <i>Polymer Journal</i> , <b>2012</b> , 44, 315-320	2.7	36
93	Dielectric study of the crystal-amorphous interphase in poly(vinylidene fluoride)/poly(methyl methacrylate) blends. <i>Polymer</i> , <b>1994</b> , 35, 475-479	3.9	31
92	Dielectric studies of specific interaction and molecular motion in single-phase mixture of poly(methyl methacrylate) and poly(vinylidene fluoride). <i>Polymer</i> , <b>1998</b> , 39, 129-134	3.9	27
91	Morphology control of polypropylene by crystallization under carbon dioxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2004</b> , 42, 2738-2746	2.6	26
90	Strain recovery mechanism of PBT/rubber thermoplastic elastomer. <i>Polymer</i> , <b>1999</b> , 40, 3657-3663	3.9	26
89	Morphology Development in Isotactic Polypropylene/Partially Hydrogenated Oligo(styrene-co-indene) Blend. <i>Macromolecules</i> , <b>1995</b> , 28, 8096-8101	5.5	26
88	Kinetic studies of crystallization in mixtures of isotactic polystyrene and atactic polystyrene. <i>Polymer</i> , <b>1994</b> , 35, 5699-5705	3.9	26
87	Nonlinear crystal growth in the mixture of isotactic polypropylene and liquid paraffin. <i>Macromolecules</i> , <b>1990</b> , 23, 3865-3868	5.5	26
86	Physical characterization of a polyolefinic thermoplastic elastomer. <i>Polymer</i> , <b>1998</b> , 39, 3365-3372	3.9	22
85	Thermal reversibility in crystalline morphology of LLDPE crystallites. <i>Polymer</i> , <b>2002</b> , 43, 2101-2107	3.9	22
84	Crystallization in Polyamide 6/Polysulfone Blends: Effect of Polysulfone Particle Size. <i>Macromolecules</i> , <b>1998</b> , 31, 4963-9	5.5	22
83	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> , <b>2005</b> , 37, 736-741	2.7	22
82	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> , <b>2005</b> , 65, 229-237	4.6	20
81	Synthesis of Optically Active Aromatic Poly(ether ketone)s via Nucleophilic Aromatic Substitution Polymerization. <i>Polymer Journal</i> , <b>2005</b> , 37, 707-710	2.7	20
80	Conformational Change of Phenyl Ring Side Group during Stress Relaxation in Glassy Poly(styrene-co-acrylonitrile). <i>Macromolecules</i> , <b>2004</b> , 37, 1062-1066	5.5	19
79	Cooperative chain relaxation in miscible polymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1988</b> , 26, 1761-1768	2.6	19

78	The optical transparency and structural change of quenched poly(vinylidene fluoride) caused by cold-drawing. <i>Polymer Journal</i> , <b>2013</b> , 45, 1033-1040	2.7	18
77	An Immiscibility Loop in Isotactic Polypropylene/Partially Hydrogenated Oligo(styrene-co-indene) Blend. <i>Macromolecules</i> , <b>1996</b> , 29, 4274-4277	5.5	18
76	Cooperative chain relaxation in a single-phase mixture of dissimilar polymers: definition and implication of the cooperativity. <i>Macromolecules</i> , <b>1992</b> , 25, 1824-1827	5.5	18
75	Relationship between modulus and structure of annealed thermoplastic polyurethane. <i>Materials Today Communications</i> , <b>2015</b> , 2, e9-e15	2.5	17
74	Mechanical properties and network structure of phenol resin crosslinked hydrogenated acrylonitrile-butadiene rubber. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 3396-3403	2.9	17
73	In-Situ Investigation of Liquid-Liquid Phase Separation in Polycarbonate/Carbon Dioxide System. <i>Macromolecules</i> , <b>2004</b> , 37, 7358-7363	5.5	17
72	Aramid/poly(ether sulphone) blend: crystallization accelerated by the presence of amorphous polymer. <i>Polymer</i> , <b>1992</b> , 33, 3210-3214	3.9	17
71	Morphological evolution and mechanical property enhancement of natural rubber/polypropylene blend through compatibilization by nanoclay. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	15
70	Phase behaviour and morphology development in a blend of isotactic polypropylene and hydrogenated poly(styrene-co-butadiene). <i>Polymer</i> , <b>1998</b> , 39, 1533-1538	3.9	15
69	Role of Amorphous Region on the Deformation Behavior of Crystalline Polymers. <i>Polymer Journal</i> , <b>2006</b> , 38, 542-547	2.7	14
68	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> , <b>1997</b> , 38, 31-34	3.9	13
67	Chain relaxation behavior in single-phase mixtures of dissimilar polymers. <i>Macromolecules</i> , <b>1991</b> , 24, 6536-6538	5.5	13
66	Preparation of epoxy resins derived from lignin solubilized in tetrabutylphosphonium hydroxide aqueous solutions. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 132, 585-591	7.9	12
65	Orientation of cylindrical microdomains of triblock copolymers by in situ stress-strain-birefringence measurements. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2009</b> , 47, 715-723	2.6	12
64	A novel nanoporous structure on the surface of bubbles in polycarbonate foams. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2008</b> , 46, 843-846	2.6	12
63	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> , <b>1991</b> , 29, 1541-1546	2.6	12
62	SAXS study on deformation behavior of isotactic polypropylene under pressurized CO <sub>2</sub> . <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 1228-1236	2.9	11
61	Strain-induced crystallization behavior of phenolic resin crosslinked natural rubber/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	11

60	Nucleation effect of cyclodextrin inclusion complexes on the crystallization of isotactic poly(1-butene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 389-395	2.6	11
59	Nucleation effect of cyclodextrin inclusion compounds on the crystallization of polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2009</b> , 47, 130-137	2.6	10
58	Morphology and elastomeric properties of isotactic polypropylene/ hydrogenated poly(styrene-co-butadiene) blends: a potential for a new thermoplastic elastomer. <i>Polymer</i> , <b>1999</b> , 40, 559-564	3.9	10
57	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> , <b>1990</b> , 22, 128-134	2.7	10
56	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> , <b>2016</b> , 133, n/a-n/a	2.9	9
55	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> , <b>2012</b> , 50, 1298-1307	2.5	9
54	Orientation Relaxation of Triblock Copolymer with Cylindrical Microdomain by in situ Stress-Birefringence Measurements. <i>Polymer Journal</i> , <b>2009</b> , 41, 562-567	2.7	9
53	Mechanism of Permeability Modification in Polyethylene Foams. <i>Journal of Cellular Plastics</i> , <b>2008</b> , 44, 107-123	1.5	9
52	Nucleation effect of inclusion complexes with different polyolefin as guest molecules on the crystallization of polypropylene. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 1098-1104	2.9	8
51	Polysulfide containing s-triazine rings as a new thermoplastic elastomer: Spherulite morphology and strain recovery behaviour. <i>Polymer</i> , <b>1998</b> , 39, 2089-2093	3.9	8
50	Morphology and Elastomeric Properties of Isotactic Polypropylene/Hydrogenated Polybutadiene Blends. <i>Polymer Journal</i> , <b>2000</b> , 32, 915-920	2.7	8
49	Effects of plasticization and hydrostatic pressure on tensile properties of PMMA under compressed carbon dioxide and nitrogen. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	7
48	Nucleation effect of clay on crystallization of polypropylene under carbon dioxide. <i>Polymer Engineering and Science</i> , <b>2012</b> , 52, 2228-2236	2.3	7
47	Crystallization after Orientation Relaxation in Polypropylene. <i>Polymer Journal</i> , <b>2008</b> , 40, 900-904	2.7	7
46	Visualized Polymers. Patterns Formed by Polymeric Systems. I. Polarized Microscopic Texture of High-Birefringence Spherulite.. <i>Kobunshi Ronbunshu</i> , <b>1999</b> , 56, 635-638	0	7
45	Short-Range Order in a Miscible Polymer Blend. <i>Polymer Journal</i> , <b>1989</b> , 21, 357-360	2.7	7
44	Tensile properties and interfacial adhesion of silicone rubber/polyethylene blends by reactive blending. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 46192	2.9	6
43	Surface melting of crystallized poly(vinylidene fluoride) under carbon dioxide. <i>Polymer</i> , <b>2013</b> , 54, 2406-2413	3.3	6

42	Mechanical properties and microphase structure of hydrogenated S-SB-S triblock copolymers. <i>Polymer Journal</i> , <b>2013</b> , 45, 1140-1145	2.7	6
41	Dielectric relaxation study of the crystalline chain motion of poly(vinylidene fluoride) under carbon dioxide. <i>Polymer Journal</i> , <b>2010</b> , 42, 419-422	2.7	6
40	Electrophilic aromatic arylation polycondensation synthesis of wholly aromatic polyketone composed of 2,2'-dimethoxy-1,1'-binaphthylene moiety. <i>Reactive and Functional Polymers</i> , <b>2007</b> , 67, 1243-1251	4.6	6
39	Synthesis of Wholly Aromatic Polyketones Containing Optically Active Macrocycles. <i>Polymer Journal</i> , <b>2007</b> , 39, 342-346	2.7	6
38	TfOH-mediated electrophilic aromatic arylation polycondensation of 2,2'-bis[4-(trifluoromethylated aryl)phenoxy]biphenyls with arenedicarbonyl dichlorides. <i>Reactive and Functional Polymers</i> , <b>2008</b> , 68, 340-350	4.6	6
37	Development of co-continuous structure in liquid crystalline polyester. <i>Polymer</i> , <b>2005</b> , 46, 8313-8320	3.9	6
36	Miscibility of Polyoxymethylene with Novolak Resin.. <i>Kobunshi Ronbunshu</i> , <b>1991</b> , 48, 443-447	0	6
35	Flexible and flame-retardant S-SEB-S triblock copolymer/PPE nano-alloy. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	5
34	Perpendicular Orientation of Cylindrical Microdomains in Extruded Triblock Copolymer. <i>Macromolecules</i> , <b>2010</b> , 43, 2088-2091	5.5	5
33	The influence of side chains on formation of inclusion complexes prepared with polyolefin and cyclodextrins. <i>Polymer Bulletin</i> , <b>2009</b> , 63, 779-788	2.4	5
32	Kinetics of crystal growth in mixtures of isotactic polypropylene and liquid paraffin. <i>Polymer</i> , <b>1993</b> , 34, 4752-4755	3.9	5
31	Thermoelectric properties of PEDOT:PSS aerogel secondary-doped in supercritical CO <sub>2</sub> atmosphere with low thermal conductivity. <i>Polymer</i> , <b>2020</b> , 206, 122912	3.9	5
30	Structural Evolution of Two-Phase Blends of Polycarbonate and PMMA by Simultaneous Biaxial Stretching. <i>Polymers</i> , <b>2018</b> , 10,	4.5	5
29	Thermosensitive polysaccharide particles for pulmonary drug delivery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 580, 123720	5.1	4
28	Light scattering studies on the crystalline morphology of stretched poly(ethylene 2,6-naphthalate) film. <i>Polymer</i> , <b>2007</b> , 48, 2395-2403	3.9	4
27	Effect of nucleating agent on the structure development in isotactic polypropylene/liquid paraffin mixture. <i>Polymer</i> , <b>1990</b> , 31, 469-472	3.9	4
26	Synergetic toughening of poly(phenylene sulfide) by poly(phenylsulfone) and poly(ethylene-ran-methacrylate-ran-glycidyl methacrylate). <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 49994	2.9	4
25	Ductile-to-brittle transition behavior of low molecular weight polycarbonate under carbon dioxide. <i>Polymer Engineering and Science</i> , <b>2018</b> , 58, 683-690	2.3	3

24	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> , <b>2011</b> , 71, 958-963	4.6	3
23	Persistent lamellar structure in binary blends of polyethylene and hydrogenated butadiene block copolymer. <i>Polymer</i> , <b>1998</b> , 39, 1643-1645	3.9	3
22	Convenient Synthesis of Aromatic Poly(ether ketone)s Containing Alicyclic Units. <i>Polymer Journal</i> , <b>2008</b> , 40, 861-866	2.7	3
21	Crystallization Kinetics of Binary Mixtures of Polyoxymethylene and Novolak Resin.. <i>Kobunshi Ronbunshu</i> , <b>1991</b> , 48, 771-774	0	3
20	Effect of Physical Aging on the Stress and Birefringence Relaxation Behaviors in Polycarbonate Glass.. <i>Nihon Reoroji Gakkaishi</i> , <b>1999</b> , 27, 43-48	0.8	3
19	UCST Type Phase Boundary and Accelerated Crystallization in PTT/PET Blends. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
18	Birefringence behavior of a flexible S-SEB-S/PPE nano-alloy. <i>Polymer Journal</i> , <b>2014</b> , 46, 250-253	2.7	2
17	Growth and Disappearance of Nanobubbles during the Foaming of Polycarbonate. <i>Polymer Journal</i> , <b>2008</b> , 40, 339-342	2.7	2
16	Crystal Morphology of Binary Mixtures of Polyoxymethylene and Novolak Resin.. <i>Kobunshi Ronbunshu</i> , <b>1992</b> , 49, 175-179	0	2
15	Strengthening of mille-feuille structured high-density polyethylene by heat elongation. <i>Polymer</i> , <b>2021</b> , 124343	3.9	2
14	Reduction of birefringence by dynamic asymmetry in miscible blends of dissimilar polycarbonates. <i>Polymer</i> , <b>2021</b> , 222, 123632	3.9	2
13	Structure and deformation recovery of the thermoplastic polyurethane spherulite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2017</b> , 55, 1585-1594	2.6	1
12	Crystallization Behavior of Polymer Blends. <i>Kobunshi Ronbunshu</i> , <b>2011</b> , 68, 353-369	0	1
11	Facile Syntheses of Aromatic Polyesters Bearing Alicyclic Units in the Main Chains. <i>Polymer Journal</i> , <b>2008</b> , 40, 629-633	2.7	1
10	Evolution of Filament-Shaped Porous Structure in Polycarbonate by Stretching under Carbon Dioxide. <i>Polymers</i> , <b>2018</b> , 10,	4.5	1
9	Cooperative progress of crystallization and spinodal decomposition in the blends of dissimilar polycarbonates. <i>Polymer</i> , <b>2022</b> , 238, 124418	3.9	0
8	Nucleation Effect of the Chemical Structure of Alkylammonium Salt on the Crystallization Behavior of Poly(Vinylidene Fluoride). <i>Polymer Crystallization</i> , <b>2022</b> , 2022, 1-9	0.9	0
7	Zero-Birefringence Composition and Orientation Birefringence of PMMA/PVB Blends. <i>Kobunshi Ronbunshu</i> , <b>2014</b> , 71, 119-124	0	

- 6 Light Scattering Method for Analyzing Deformation Behavior of Elastomers. *Nippon Gomu Kyokaishi*, **2011**, 84, 94-99 ○
- 5 Bleeding Surfactant at the Surface of Polyethylene Blend Films. *Kobunshi Ronbunshu*, **2008**, 65, 98-103 ○
- 4 Foaming of Polymers using Supercritical Fluids. *Nippon Gomu Kyokaishi*, **2021**, 94, 341-345 ○
- 3 Control of crystallization in two-phase blends of poly(phenylene sulfide) and poly(vinylpyrrolidone). *Polymer Crystallization*, **2021**, 4, e10165 ○.9
- 2 ????? ████████████████ *Seikei-Kakou*, **2004**, 16, 556-560 ○
- 1 Introduction of Polymer Blends. *Seikei-Kakou*, **2015**, 27, 120-124 ○