

Ryohei Ishige

List of Publications by Year in descending order

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citations

257450

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1904
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#	ARTICLE	IF	CITATIONS
1	Mechanically Robust and Self-Healable Superlattice Nanocomposites by Self-Assembly of Single-Component "Sticky" Polymer-Grafted Nanoparticles. <i>Advanced Materials</i> , 2015, 27, 3934-3941.	21.0	111
2	Large-scale self-assembled zirconium phosphate smectic layers via a simple spray-coating process. <i>Nature Communications</i> , 2014, 5, 3589.	12.8	97
3	Tunable Lyotropic Photonic Liquid Crystal Based on Graphene Oxide. <i>ACS Photonics</i> , 2014, 1, 79-86.	6.6	58
4	Synthesis of diphenyl-diacetylene-based nematic liquid crystals and their high birefringence properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 8394.	6.7	57
5	Elongation Behavior of a Main-Chain Smectic Liquid Crystalline Elastomer. <i>Macromolecules</i> , 2008, 41, 7566-7570.	4.8	50
6	Precise Analysis of Thermal Volume Expansion of Crystal Lattice for Fully Aromatic Crystalline Polyimides by X-ray Diffraction Method: Relationship between Molecular Structure and Linear/Volumetric Thermal Expansion. <i>Macromolecules</i> , 2017, 50, 2112-2123.	4.8	48
7	Influence of Trace Amount of Well-Dispersed Carbon Nanotubes on Structural Development and Tensile Properties of Polypropylene. <i>Macromolecules</i> , 2013, 46, 463-473.	4.8	47
8	Solution Processable Iridescent Self-Assembled Nanoplatelets with Finely Tunable Interlayer Distances Using Charge- and Sterically Stabilizing Oligomeric Polyoxyalkyleneamine Surfactants. <i>Chemistry of Materials</i> , 2014, 26, 1528-1537.	6.7	43
9	Cross-Linked Liquid Crystalline Polyimides with Siloxane Units: Their Morphology and Thermal Diffusivity. <i>Macromolecules</i> , 2013, 46, 747-755.	4.8	38
10	A colorless semi-aromatic polyimide derived from a sterically hindered bromine-substituted dianhydride exhibiting dual fluorescence and phosphorescence emission. <i>Materials Chemistry Frontiers</i> , 2019, 3, 39-49.	5.9	38
11	Effects of chain packing and structural isomerism on the anisotropic linear and volumetric thermal expansion behaviors of polyimide films. <i>Polymer</i> , 2018, 146, 386-395.	3.8	37
12	Control over Internal Structure of Liquid Crystal Polymer Nanofibers by Electrospinning. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1641-1645.	3.9	36
13	Analysis of Thermal Radiation Properties of Polyimide and Polymeric Materials Based on ATR-IR spectroscopy. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2016, 29, 251-254.	0.3	36
14	Anisotropic Linear and Volumetric Thermal Expansion Behaviors of Self-Standing Polyimide Films Analyzed by Thermomechanical Analysis (TMA) and Optical Interferometry. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700354.	2.2	35
15	Effect of β -substituents on molecular motion and wetting behaviors of poly(fluoroalkyl acrylate) thin films with short fluoroalkyl side chains. <i>Polymer</i> , 2014, 55, 6303-6308.	3.8	34
16	High-Performance n-Type Electrical Memory and Morphology-Induced Memory-Mode Tuning of a Well-Defined Brush Polymer Bearing Perylene Diimide Moieties. <i>Advanced Electronic Materials</i> , 2015, 1, 1500197.	5.1	32
17	White-Light Emission and Tunable Luminescence Colors of Polyimide Copolymers Based on FRET and Room-Temperature Phosphorescence. <i>ACS Omega</i> , 2020, 5, 14831-14841.	3.5	31
18	Enhanced fluorescence of phthalimide compounds induced by the incorporation of electron-donating alicyclic amino groups. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16033-16044.	2.8	30

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19	Unusual Formation of Smectic A Structure in Cross-Linked Monodomain Elastomer of Main-Chain LC Polyester with 3-Methylpentane Spacer. <i>Macromolecules</i> , 2008, 41, 2671-2676.	4.8	28
20	Effective Reduction of Volumetric Thermal Expansion of Aromatic Polyimide Films by Incorporating Interchain Crosslinking. <i>Polymers</i> , 2018, 10, 761.	4.5	28
21	Thermotropic Liquid Crystalline Polyimides with Siloxane Linkages: Synthesis, Characterization, and Liquid Crystalline Behavior. <i>Macromolecules</i> , 2010, 43, 805-810.	4.8	27
22	Well-Ordered Lamellar Microphase-Separated Morphology of an ABA Triblock Copolymer Containing a Main-Chain Liquid Crystalline Polyester as the Middle Segment. <i>Macromolecules</i> , 2011, 44, 4586-4588.	4.8	27
23	Precise Synthesis of Poly(methyl methacrylate) Brush with Well-Controlled Stereoregularity Using a Surface-Initiated Living Anionic Polymerization Method. <i>Macromolecules</i> , 2016, 49, 2071-2076.	4.8	27
24	Unique Difference in Transition Temperature of Two Similar Fluorinated Side Chain Polymers Forming Hexatic Smectic Phase: Poly{2-(perfluorooctyl)ethyl acrylate} and Poly{2-(perfluorooctyl)ethyl vinyl ether}. <i>Macromolecules</i> , 2014, 47, 3860-3870.	4.8	26
25	Confinement-Induced Crystal Growth in One-Dimensional Isotactic Polystyrene Nanorod Arrays. <i>ACS Macro Letters</i> , 2013, 2, 414-418.	4.8	24
26	Well-Ordered Lamellar Microphase-Separated Morphology of an ABA Triblock Copolymer Containing a Main-Chain Liquid Crystalline Polyester as the Middle Segment 2: Influence of Amorphous Segment Molecular Weight. <i>Macromolecules</i> , 2012, 45, 9383-9390.	4.8	23
27	Synthesis of Liquid Crystal Molecules Based on Bis(biphenyl)diacetylene and Their Liquid Crystallinity. <i>Chemistry Letters</i> , 2010, 39, 513-515.	1.3	22
28	In Situ Analysis of Chain Orientation Behavior in Thin Film Aromatic Polyimides by Variable Temperature pMAIRS during Thermal Imidization. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700370.	2.2	21
29	Synthesis and Liquid Crystalline Behavior of Laterally Substituted Polyimides with Siloxane Linkages. <i>Macromolecules</i> , 2010, 43, 8950-8956.	4.8	20
30	Structural Analysis of Microphase Separated Interface in an ABC-Type Triblock Terpolymer by Combining Methods of Synchrotron-Radiation Grazing Incidence Small-Angle X-ray Scattering and Electron Microtomography. <i>Macromolecules</i> , 2015, 48, 2697-2705.	4.8	20
31	Microscopy and microbeam X-ray analyses in poly(3-hydroxybutyrate-co-3-hydroxyvalerate) with amorphous poly(vinyl acetate). <i>Polymer</i> , 2014, 55, 6906-6914.	3.8	19
32	Enhanced thermal conductivity in immiscible polyimide blend composites with needle-shaped ZnO particles. <i>RSC Advances</i> , 2017, 7, 15492-15499.	3.6	19
33	Molecular design of environmentally benign segmented polyurethane(urea)s: effect of the hard segment component on the molecular aggregation states and biodegradation behavior. <i>Polymer Chemistry</i> , 2013, 4, 3735.	3.9	17
34	Anti-ferroelectric Banana Phase in a Bent-shaped Molecule with a Low Bend Angle of 60°. <i>Chemistry Letters</i> , 2008, 37, 1230-1231.	1.3	16
35	Smectic A Formation by Twin Dimers Assuming U-shaped Conformation. <i>Chemistry Letters</i> , 2008, 37, 880-881.	1.3	16
36	<i>In situ</i> ultra-small-angle X-ray scattering study under uniaxial stretching of colloidal crystals prepared by silica nanoparticles bearing hydrogen-bonding polymer grafts. <i>IUCr</i> , 2016, 3, 211-218.	2.2	16

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37	Pressure-Induced Variations of Aggregation Structures in Colorless and Transparent Polyimide Films Analyzed by Optical Microscopy, UV-Vis Absorption, and Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8985-8997.	2.6	14
38	Application of Synchrotron Radiation X-ray Scattering and Spectroscopy to Soft Matter. <i>Polymers</i> , 2020, 12, 1624.	4.5	14
39	Fully Liquid-Crystalline ABA Triblock Copolymer of Fluorinated Side-Chain Liquid-Crystalline A Block and Main-Chain Liquid-Crystalline B Block: Higher Order Structure in Bulk and Thin Film States. <i>Macromolecules</i> , 2016, 49, 6061-6074.	4.8	13
40	USAXS analysis of concentration-dependent self-assembling of polymer-brush-modified nanoparticles in ionic liquid: [I] concentrated-brush regime. <i>Journal of Chemical Physics</i> , 2018, 148, 124902.	3.0	12
41	Precise characterization of outermost surface of crystalline diblock copolymer thin films using synchrotron radiation soft X-ray photoelectron spectroscopy. <i>Polymer Journal</i> , 2014, 46, 637-640.	2.7	11
42	Synthesis of Iron Oxide Rods Coated with Polymer Brushes and Control of Their Assembly in Thin Films. <i>Langmuir</i> , 2015, 31, 1172-1179.	3.5	11
43	Enhancement of Thermal Diffusivity in Phase-Separated Bismaleimide/Poly(ether imide) Composite Films Containing Needle-Shaped ZnO Particles. <i>Polymers</i> , 2017, 9, 263.	4.5	11
44	Anisotropic photoconductivity of aromatic and semi-aliphatic polyimide films: Effects of charge transfer, molecular orientation, and polymer chain packing. <i>Polymer</i> , 2019, 180, 121713.	3.8	11
45	Full-colour solvatochromic fluorescence emitted from a semi-aromatic imide compound based on ESIPT and anion formation. <i>Materials Advances</i> , 2021, 2, 5629-5638.	5.4	11
46	Preparation of High-Density Polymer Brushes with a Multihelical Structure. <i>Langmuir</i> , 2018, 34, 3283-3288.	3.5	10
47	Analysis of spatial orientation distribution of highly oriented polyimide film using micro ATR-FTIR spectroscopic imaging method. <i>Polymer</i> , 2021, 221, 123616.	3.8	10
48	Banana-shaped molecular architecture: Formation of large columns composed of two concentrically enclosed layers. <i>Journal of Materials Chemistry</i> , 2012, 22, 21448.	6.7	9
49	Synthesis and properties of thermotropic liquid-crystalline polyesters containing 9,10-diphenylanthracene moiety in the main chain. <i>Research on Chemical Intermediates</i> , 2013, 39, 403-414.	2.7	9
50	Enhancing photoconductivity of aromatic polyimide films by incorporating fluorinated dianhydrides and main chain triphenylamine structure. <i>Polymer</i> , 2018, 157, 122-130.	3.8	9
51	Characteristic smectic structures of main-chain liquid-crystalline polyimides driven by a microphase separation between aromatic imide mesogen and a siloxane spacer. <i>Journal of Materials Chemistry</i> , 2012, 22, 1532-1538.	6.7	8
52	Structural analysis and surface wettability of a novel alternated vinylidene cyanide with fluorinated vinyl ether copolymer. <i>Polymer Journal</i> , 2013, 45, 1041-1046.	2.7	8
53	Crystallization-induced structure fluctuation of crystallized microdomain structure composed of strongly segregated crystalline-crystalline diblock copolymers. <i>Polymer</i> , 2016, 102, 256-265.	3.8	8
54	Effect of molecular mobility of pre-ordered phase on crystallization in microphase-separated lamellar morphology of strongly segregated crystalline-crystalline diblock copolymers. <i>Polymer</i> , 2017, 116, 403-411.	3.8	8

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55	Photoconductive polyimides derived from a novel imidazole-containing diamine. High Performance Polymers, 2020, 32, 620-630.	1.8	8
56	Precise structural analysis of polymer materials using synchrotron X-ray scattering and spectroscopic methods. Polymer Journal, 2020, 52, 1013-1026.	2.7	8
57	Quantitative analysis of stereoscopic molecular orientations in thermally reactive and heterogeneous noncrystalline thin films via variable-temperature infrared pMAIRS and GI-XRD. Polymer Journal, 2021, 53, 603-617.	2.7	8
58	Two-Step Smectic CA Phase Formation from Isotropic Liquid upon Supercooling in Main-Chain Liquid-Crystalline BB-5(1-Me) Polyester. Macromolecular Chemistry and Physics, 2011, 212, 48-54.	2.2	7
59	Spontaneous Chain Orientation of Aromatic Polyimides Evolved during Thermal Imidization from Shear-Oriented Glassy Liquid Crystalline Precursors. Macromolecules, 2019, 52, 5054-5066.	4.8	7
60	Regular Undulation Morphology Observed on Fracture and Film Surfaces of Chiral SC* Polymer. Macromolecules, 2008, 41, 5361-5364.	4.8	6
61	Regular Formation of Chain Folding in Smectic Phase of Main-Chain BB-3(2-Ph) Polymer Followed by Columnar Association of Phenyl Side Group in Propane Spacer. Macromolecules, 2009, 42, 2557-2562.	4.8	6
62	Unusual chain configuration of main-chain liquid crystal polyesters having Y-shaped mesogens in nematic phase. Polymer, 2011, 52, 5830-5835.	3.8	6
63	Effect of molecular weight on microcrystalline structure formation in polymer with perylene diimide side chain. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2275-2283.	2.1	6
64	Ultrafast Spectroscopic Analysis of Pressure-Induced Variations of Excited-State Energy and Intramolecular Proton Transfer in Semi-Aliphatic Polyimide Films. Journal of Physical Chemistry B, 2021, 125, 2425-2434.	2.6	6
65	Colorless Copolyimide Films Exhibiting Large Stokes-Shifted Photoluminescence Applicable for Spectral Conversion. ACS Applied Polymer Materials, 2021, 3, 3911-3921.	4.4	6
66	Promotion of Thermal Imidization of Semi-Aliphatic Polyimide Precursors by Incorporation of Polyethylene Glycol and Their Modified Solid Structures. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 139-146.	0.3	5
67	Photoluminescence Properties of Novel Fluorescent Polyimide Based on Excited State Intramolecular Proton Transfer at The End Groups. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 449-455.	0.3	5
68	Deformation of Hierarchical Lamellar Structure Formed by a Liquid Crystalline Block Copolymer. Macromolecular Chemistry and Physics, 2020, 221, 2000042.	2.2	4
69	Compression and Thermal Expansion Behaviors of Highly Crystalline Polyimide Particles Prepared from Poly(amic acid) and Monomer Salts. Macromolecules, 2021, 54, 8714-8725.	4.8	4
70	Large-Stokes-shifted yellow photoluminescence emission from an imide and polyimides forming multiple intramolecular hydrogen bonds. Materials Chemistry Frontiers, 2021, 6, 24-32.	5.9	4
71	Synthesis and Characterization of White-Light Luminescent End-Capped Polyimides Based on FRET and Excited State Intramolecular Proton Transfer. Polymers, 2021, 13, 4050.	4.5	4
72	Photoluminescence Properties of Copolyimides Containing Naphthalene Core and Analysis of Excitation Energy Transfer between the Dianhydride Moieties. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 423-430.	0.3	3

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73	Thermally Reversible Distortion Observed for Monodomain Nematic Elastomer of Cross-Linked Main-Chain Polyester. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 193-202.	0.9	2
74	Pressure Induced Variations in Refractive Index of Aromatic Polyimide Film Analyzed by Brillouin Scattering. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2018, 31, 599-606.	0.3	2
75	Analysis of Pressure-induced Variations in the Crystalline Structures of Polyimides Having Flexible Linkages by Wide-Angle X-ray Diffraction. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2020, 33, 583-590.	0.3	2
76	Regular undulation and polarization modulation on the film surface of a planarly aligned SmC* polymer. <i>Soft Matter</i> , 2011, 7, 258-264.	2.7	0
77	Water modulates the lamellar structure and interlayer correlation of poly(perfluorooctyl acrylate) films: a specular and off-specular neutron scattering study. <i>Polymer Journal</i> , 0, , .	2.7	0
78	Structural Analysis for Surface and Interface of Polymer Thin Films by Synchrotron Radiation X-Ray Scattering Method. <i>Journal of Fiber Science and Technology</i> , 2016, 72, P-422-P-427.	0.0	0
79	Development of Novel Nano-systems for Electrochemical Devices by Hierarchizing Concentrated Polymer Brushes. , 2016, , 195-215.		0