Kohji Tashiro

List of Publications by Year
in descending order

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288 papers	11,973 citations	28274 55 h-index	37204 96 g-index
298 all docs	298 docs citations	298 times ranked	7396 citing authors

#	Article	IF	Citations
1	Phase Transition Behavior of Polymer Crystals. , 2022, , 769-812.		0
2	Crystal Structure Analysis by Wide-Angle X-ray Diffraction Method. , 2022, , 1-285.		2
3	Forcibly Spinning Using Bombyx Mori Silkworm Anesthetized by the Water Narcosis Treatment. Journal of Natural Fibers, 2021, 18, 419-429.	3.1	0
4	Effect of Methoxy Side Groups on the Crystal Structures of a Series of Syndiotactic Polymethoxystyrenes as Studied by the X-ray Diffraction Data Analysis. Macromolecules, 2021, 54, 1881-1893.	4.8	3
5	High-Electric-Field-Induced Hierarchical Structure Change of Poly(vinylidene fluoride) as Studied by the Simultaneous Time-Resolved WAXD/SAXS/FTIR Measurements and Computer Simulations. Macromolecules, 2021, 54, 2334-2352.	4.8	14
6	A Role of Taut Tie Chains in the Heterogeneous Stress Distribution and Mechanical Deformation Behavior of Synthetic and Natural Fibers. Journal of Fiber Science and Technology, 2021, 77, 88-117.	0.4	1
7	Heterogeneous Stress Distribution and Hierarchical Structure in the Highly Oriented Nylon 6 Strings Annealed at Various Temperatures to Evaluate the True Crystallite Modulus. Macromolecules, 2021, 54, 6449-6465.	4.8	3
8	Experimental confirmation of proton conductivity predicted from intermolecular hydrogen-bonding in spatially-confined novel histamine derivatives. Journal of Solid State Chemistry, 2021, 299, 122182.	2.9	1
9	Influence of Tacticity on the Crystal Structures of Hydrogenated Ring-Opened Poly(norbornene)s. Macromolecules, 2021, 54, 8122-8134.	4.8	11
10	X-ray study of Poly(vinyl Alcohol)-Iodine complex prepared from the dilute iodine solution as a hint to know the inner structure of polarizer. Polymer, 2021, 233, 124180.	3.8	12
11	Crystal structures and phase transition of tetrafluoroethylene-vinyl alcohol alternating copolymer. Polymer, 2021, 237, 124354.	3.8	0
12	New Evolution in Crystal Structure Analysis of Synthetic Polymers on the Basis of Concerted Analysis of X-ray and Neutron Diffraction Data. Nihon Kessho Gakkaishi, 2021, 63, 273-279.	0.0	0
13	Color and shape reversible, recoverable and repeatable mechanochromic shape memory polycaprolactone: a single material with dual functions. Polymer Chemistry, 2020, 11, 91-101.	3.9	9
14	Metropolis Monte Carlo Simulation of Two-Dimensional Small-Angle X-ray Scattering Patterns of Oriented Polymer Materials. Macromolecules, 2020, 53, 276-287.	4.8	7
15	Introduction of Disorder in the Crystal Structures of Atactic Poly(vinyl Alcohol) and Its Iodine Complex To Solve a Dilemma between X-ray and Neutron Diffraction Data Analyses. Macromolecules, 2020, 53, 6656-6671.	4.8	16
16	Crystallization behavior, structure, morphology, and thermal properties of crystalline and amorphous stereo diblock copolymers, poly(l-lactide)-b-poly(dl-lactide). Polymer Chemistry, 2020, 11, 5711-5724.	3.9	7
17	Fiber Structure, Tensile Behavior and Antibacterial Activity of Polylactide/Poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1 Science - Physics, 2020, 59, 440-456.	1.0	8
18	Crystalline Iodine Complexes of Amorphous Poly(vinyl acetate) as Studied by X-ray Diffraction, Vibrational Spectroscopy, and Computer Simulation. Macromolecules, 2020, 53, 4395-4406.	4.8	7

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19	Structural Evolution Mechanism of Crystalline Polymers in the Isothermal Melt-Crystallization Process: A Proposition Based on Simultaneous WAXD/SAXS/FTIR Measurements. Polymers, 2019, 11, 1316.	4.5	15
20	pH-induced conformational changes in histamine in the solid state. RSC Advances, 2019, 9, 19375-19389.	3.6	7
21	Microstructural Analyses of Biaxially Oriented Polylactide/Modified Thermoplastic Starch Film with Drastic Improvement in Toughness. Macromolecular Materials and Engineering, 2019, 304, 1900340.	3.6	9
22	Synthesis and Cyclizationâ€Induced Charge Transfer of Rectangular Bisterthiophenesiloxanes. Chemistry - A European Journal, 2019, 25, 13701-13704.	3.3	1
23	Crystal structure of cellulose-iodine complex. Polymer, 2019, 171, 140-148.	3.8	23
24	A study of the extraordinarily strong and tough silk produced by bagworms. Nature Communications, 2019, 10, 1469.	12.8	59
25	X-ray Crystal Structure Analysis of Poly(3-hydroxybutyrate) Î²-Form and the Proposition of a Mechanism of the Stress-Induced Î±-to-Î² Phase Transition. Macromolecules, 2019, 52, 2995-3009.	4.8	38
26	Experimental Determination of the Geometrical Relation between Monomer and Polymer Species of 2,5-Distyrylpyrazine Single Crystal in the Topotactic Photoinduced Polymerization Reaction. Macromolecules, 2019, 52, 2189-2202.	4.8	12
27	Synchrotron microbeam X-ray scattering study of the crystallite orientation in the spherulites of isotactic poly(butene-1) crystallized isothermally at different temperatures. Polymer Journal, 2019, 51, 143-153.	2.7	6
28	Relationship between twisting phenomenon and structural discontinuity of stacked lamellae in the spherulite of poly(ethylene adipate) as studied by the synchrotron X-ray microbeam technique. Polymer Journal, 2019, 51, 131-141.	2.7	19
29	Important Factors Necessary for Further Improvement of Elastic Modulus and Strength of Thermoplastics. Seikei-Kakou, 2019, 31, 216-221.	0.0	0
30	Effect of Elevated Temperatures on the States of Water and Their Correlation with the Proton Conductivity of Nafion. ACS Omega, 2018, 3, 349-360.	3.5	40
31	Structural study of the ordering processes of cold drawn trans-1,4-polyisoprene samples in the heating process on the basis of wide- and small-angle X-ray scattering measurements. Journal of Physics: Conference Series, 2018, 1095, 012029.	0.4	2
32	Structure Analysis and Derivation of Deformed Electron Density Distribution of Polydiacetylene Giant Single Crystal by the Combination of X-ray and Neutron Diffraction Data. Macromolecules, 2018, 51, 3911-3922.	4.8	7
33	Study of phase transition and ultimate mechanical properties of orthorhombic polyoxymethylene based on the refined crystal structure. Polymer, 2018, 153, 474-484.	3.8	7
34	Crystal polymorphism and structure models of Poly(dimethylsiloxane). Polymer, 2018, 153, 507-520.	3.8	9
35	Comprehensive Study on the Formation of Higher-Order Structure of Bombyx mori Silkworm Fibers: Influence of Sericin Fractions, Modulation of Spinning Process, and Metal Ion Interactions. Journal of Fiber Science and Technology, 2018, 74, 95-108.	0.4	6
36	Crystal structures and phase transition behavior of Poly(nonamethylene terephthalamide) and its model compounds. Polymer, 2017, 116, 378-394.	3.8	7

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37	Phase Transition Mechanism of Poly(<scp>l</scp>-lactic acid) among the Î±, Î´, and Î² Forms on the Basis of the Reinvestigated Crystal Structure of the Î² Form. Macromolecules, 2017, 50, 3285-3300.	4.8	53
38	Reinvestigation of the Î²-to-Î± Crystal Phase Transition of Poly(butylene adipate) by the Time-Resolved X-ray Scattering and FTIR Spectral Measurements in the Temperature-Jump Process. Macromolecules, 2017, 50, 3883-3889.	4.8	35
39	Observation of Water-Stimulated Supercontraction of Uniaxially Oriented Poly(vinyl alcohol) and the Related Hierarchical Structure Change Revealed by the Time-Resolved WAXD/SAXS Measurements. Macromolecules, 2017, 50, 2803-2813.	4.8	4
40	Confirmation of the X-ray-Analyzed Heterogeneous Distribution of the PDLA and PLLA Chain Stems in the Crystal Lattice of Poly(lactic acid) Stereocomplex on the Basis of the Vibrational Circular Dichroism IR Spectral Measurement. Macromolecules, 2017, 50, 8066-8071.	4.8	37
41	Crystal Structure of Poly(lactic acid) Stereocomplex: Random Packing Model of PDLA and PLLA Chains As Studied by X-ray Diffraction Analysis. Macromolecules, 2017, 50, 8048-8065.	4.8	100
42	Transformation of Coiled Î±-Helices intoCross-Î²-Sheets Superstructure. Biomacromolecules, 2017, 18, 3892-3903.	5.4	8
43	Infrared Spectroscopy and X-ray Diffraction Characterization of Dimorphic Crystalline Structures of Polyethylenes with Halogens Placed at Equal Distance along the Backbone. Journal of Physical Chemistry B, 2017, 121, 10166-10179.	2.6	19
44	Effect of Crystal Status Transformation on the Thermal Shrinkage Characteristics and Extensional Characteristics of Acetaldehyde Solvent-Induced Crystalization PET Film. Transactions of the Materials Research Society of Japan, 2017, 42, 107-111.	0.2	2
45	The effect of counter cation species on the formation of various crystal forms and their phase transition behavior of poly(vinyl alcohol)-iodine complex. Polymer, 2016, 89, 81-93.	3.8	12
46	Time-Resolved Imaging of the Phase Transition in the Melt-Grown Spherulites of Isotactic Polybutene-1 as Detected by the Two-Dimensional Polarized IR Imaging Technique. Journal of Physical Chemistry B, 2016, 120, 4689-4698.	2.6	19
47	Progress in Structure Analysis Techniques of Fibers. , 2016, , 21-47.		0
48	Microscopically Viewed Relationship Between Structure and Mechanical Property of Crystalline Polymers: An Important Guiding Principle for the Development of Super Fibers. , 2016, , 95-108.		3
49	Details of the intermolecular interactions in poly(vinyl alcohol)-iodine complexes as studied by quantum chemical calculations. Polymer, 2016, 99, 566-579.	3.8	25
50	Constructing Ï€-Electron-Conjugated Diarylbutadiyne-Based Polydiacetylene under Molecular Framework Controlled by Hydrogen Bond and Side-Chain Substituent Position. Macromolecular Rapid Communications, 2016, 37, 685-690.	3.9	14
51	Reinvestigation of Crystal Structure and Intermolecular Interactions of Biodegradable Poly(3-Hydroxybutyrate) Î±-Form and the Prediction of Its Mechanical Property. Macromolecules, 2016, 49, 581-594.	4.8	60
52	Relation between higher-order structure and crystalline phase transition of oriented isotactic polybutene-1 investigated by temperature-dependent time-resolved simultaneous WAXD/SAXS measurements. Polymer, 2016, 90, 165-177.	3.8	35
53	Molecular Orientation Enhancement of Silk by the Hot-Stretching-Induced Transition from Î±-Helix-HFIP Complex to Î²-Sheet. Biomacromolecules, 2016, 17, 1437-1448.	5.4	37
54	Refinement of the Crystal Structures of Forms I and II of Isotactic Polybutene-1 and a Proposal of Phase Transition Mechanism between Them. Macromolecules, 2016, 49, 1392-1404.	4.8	104

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55	Isotope effect on the structural evolution process in the isothermal crystallization phenomenon of polyoxymethylene. Polymer, 2016, 90, 76-88.	3.8	6
56	Molecular assembly of highly symmetric molecules under a hydrogen bond framework controlled by alkyl building blocks: a simple approach to fine-tune nanoscale structures. Soft Matter, 2016, 12, 486-491.	2.7	3
57	Nanostructures and dielectric properties of PVDF-based polymer films with high energy density and low energy losses. Materials Research Society Symposia Proceedings, 2015, 1740, 13.	0.1	0
58	DFT Study of Proton Transfer in Methyl Urocanate and Butyl Urocanate. Macromolecular Symposia, 2015, 354, 99-103.	0.7	0
59	A Study on Crystallization Behavior for Poly (Lactic Acid) in Addition of Cardo Materials. Zairyo/Journal of the Society of Materials Science, Japan, 2015, 64, 1-6.	0.2	4
60	Isotropically small crystalline lamellae induced by high biaxial-stretching rate as a key microstructure for super-tough polylactide film. Polymer, 2015, 68, 234-245.	3.8	69
61	Isotope Effect on the Meltâ€“Isothermal Crystallization of Polyoxymethylene D/H Random Copolymers and D/H Blend Samples. Macromolecules, 2015, 48, 8070-8081.	4.8	11
62	Effect of OH Segmental Length on the Iodine Complex Formation of Ethyleneâ€“Vinyl Alcohol Random Copolymers. Macromolecules, 2015, 48, 8867-8876.	4.8	22
63	Detailed analysis of temperature dependences of spherulite morphology and crystallite orientation of poly(vinylidene fluoride) via a combinatorial method. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 253-261.	2.1	8
64	Proton transfer mechanism of 1,3,5-tri(2-benzimidazolyl) benzene with a unique triple-stranded hydrogen bond network as studied by DFT-MD simulations. Chemical Engineering Science, 2015, 137, 404-411.	3.8	7
65	Quantitative Crystal Structure Analysis of Poly(vinyl Alcohol)â€“Iodine Complexes on the Basis of 2D X-ray Diffraction, Raman Spectra, and Computer Simulation Techniques. Macromolecules, 2015, 48, 2138-2148.	4.8	45
66	Phenomenological study of the isotope effect on the equilibrium melting point of polymer crystal. Polymer, 2015, 80, 138-145.	3.8	2
67	Accurate Structure Analyses of Polymer Crystals on the Basis of Wide-Angle X-ray and Neutron Diffractions. Kobunshi Ronbunshu, 2014, 71, 508-526.	0.2	6
68	Shifting from Hydrogen Bond Network to Ï€â€“Ï€ Stacking: A Key Mechanism for Reversible Thermochromic Sulfonated Poly(Ether Ether Ketone). Macromolecular Rapid Communications, 2014, 35, 1397-1401.	3.9	3
69	Self-assembled aromatic polyamide nanofibers with trifluoromethyl groups via precipitation polymerization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 447, 148-154.	4.7	3
70	Crystal structure analyses of arylate polyesters with long methylene segments and their model compounds on the basis of 2-D X-ray diffractions and infrared progression bands. Polymer, 2014, 55, 1228-1248.	3.8	14
71	Hierarchical Structural Change in the Stress-Induced Phase Transition of Poly(tetramethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Undulator WAXD/SAXS Data. Macromolecules, 2014, 47, 2052-2061.	4.8	34
72	Polymorphism and Phase Transitions of Precisely Halogen-Substituted Polyethylene. (1) Crystal Structures of Various Crystalline Modifications of Bromine-Substituted Polyethylene on Every 21st Backbone Carbon. Macromolecules, 2014, 47, 4738-4749.	4.8	26

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73	Kinetic Control of Chlorine Packing in Crystals of a Precisely Substituted Polyethylene. Toward Advanced Polyolefin Materials. Macromolecules, 2014, 47, 236-245.	4.8	38
74	In-house simultaneous collection of small-angle X-ray scattering, wide-angle X-ray diffraction and Raman scattering data from polymeric materials. Journal of Applied Crystallography, 2014, 47, 922-930.	4.5	11
75	Microscopically-viewed relationship between the chain conformation and ultimate Young's modulus of a series of arylate polyesters with long methylene segments. Polymer, 2014, 55, 1799-1808.	3.8	17
76	Molecular mobility of imidazoles in molten state as a key factor to enhance proton conductivity. Journal of Power Sources, 2014, 249, 185-192.	7.8	17
77	Clarification of Cross-Linkage Structure in Boric Acid Doped Poly(vinyl alcohol) and Its Model Compound As Studied by an Organized Combination of X-ray Single-Crystal Structure Analysis, Raman Spectroscopy, and Density Functional Theoretical Calculation. Journal of Physical Chemistry B, 2014, 118, 6032-6037.	2.6	33
78	Structural Information Necessary for the Development of Ultimate Functions and the Relationship between Structure and Properties of Polymers. Seikei-Kakou, 2014, 26, 258-263.	0.0	0
79	Stress concentration in carbon fiber revealed by the quantitative analysis of X-ray crystallite modulus and Raman peak shift evaluated for the variously-treated monofilaments under constant tensile forces. Carbon, 2013, 53, 29-37.	10.3	30
80	Density functional molecular dynamics simulations investigation ofÂproton transfer and inter-molecular reorientation under external electrostatic field perturbation: Case studies for water and imidazole systems. Journal of Power Sources, 2013, 229, 141-148.	7.8	4
81	Application of the simultaneous measurement system of WAXD, SAXS and transmission FTIR spectra to the study of structural changes in the cold- and melt-crystallization processes of trans-1,4-polyisoprene. Polymer Journal, 2013, 45, 1019-1026.	2.7	19
82	Phase-transition behavior of a crystalline polymer near the melting point: case studies of the ferroelectric phase transition of poly(vinylidene fluoride) and the Î²-to-Î± transition of trans-1,4-polyisoprene. Polymer Journal, 2013, 45, 1107-1114.	2.7	26
83	Crystallization behavior of poly(lactic acid)/microfibrillated cellulose composite. Polymer, 2013, 54, 3417-3425.	3.8	74
84	Influence of the third monomer component on the X-ray-analyzed crystal structure of ethyleneâ€“tetrafluoroethylene copolymer. European Polymer Journal, 2013, 49, 1532-1540.	5.4	4
85	Experimental station for multiscale surface structural analyses of soft-material films at SPring-8 via a GISWAX/GIXD/XR-integrated system. Polymer Journal, 2013, 45, 109-116.	2.7	51
86	Effect of the third monomer unit on the phase transition of oriented ethylene-tetrafluoroethylene copolymer studied by the temperature-dependent measurements of 2D X-ray scattering and polarized infrared spectroscopy. Polymer Journal, 2013, 45, 545-554.	2.7	5
87	Recent Progress in Static and Dynamic Structural Analysis of Crystalline Polymers Studied from a Microscopic Point of View. , 2013, , 1-28.		0
88	Physical characteristics of the electrospun nanofiber consisting of the blends of conductive polymer and aromatic polymer. Journal of Textile Engineering, 2013, 59, 25-35.	0.2	0
89	Macromol. Chem. Phys. 20/2012. Macromolecular Chemistry and Physics, 2012, 213, 2204-2204.	2.2	0
90	Experimentally- and theoretically-evaluated ultimate 3-dimensional elastic constants of trans-1,4-polyisoprene Î± and Î² crystalline forms on the basis of the newly-refined crystal structure information. Polymer, 2012, 53, 3548-3558.	3.8	26

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91	Optical Birefringence Patterns and Corresponding Lamellar Alteration Induced by Solvent Vapor on Poly(<scp>l</scp>-lactic acid) Diluted with Poly(1,4-butylene adipate). Macromolecules, 2012, 45, 7313-7316.	4.8	16
92	Separate Crystallization and Cocrystallization of Poly(<scp>L</scp>â€lactide) in the Presence of <scp>L</scp>â€Lactideâ€Based Copolymers With Low Crystallizability, Poly(<scp>L</scp>â€lactideâ€coâ€glycolide) and Poly(<scp>L</scp>â€lactideâ€coâ€<scp>D</scp>â€lactide). Macromolecular Chemistry and Physics, 2012, 213, 2099-2112.	2.2	21
93	Theoretical and Experimental Evaluation of Crystallite Moduli of Various Crystalline Forms of Poly(<scp>l</scp>-lactic acid). Macromolecules, 2012, 45, 7019-7026.	4.8	45
94	New Developments in the Simultaneous Measurement System of Wide-Angle and Small-Angle X-ray Scatterings and Vibrational Spectra for the Static and Dynamic Analyses of the Hierarchical Structures of Polymer Solids. Kobunshi Ronbunshu, 2012, 69, 213-227.	0.2	11
95	Stress-induced microstructural changes and crystallite modulus of carbon fiber as measured by X-ray scattering. Carbon, 2012, 50, 1163-1169.	10.3	34
96	Synchronous and separate homo-crystallization of enantiomeric poly(l-lactic acid)/poly(d-lactic acid) blends. Polymer, 2012, 53, 747-754.	3.8	67
97	Influence of the third monomer component on the temperature-dependent crystallite modulus and tie chain fraction evaluated for ethylene-tetrafluoroethylene copolymers. Polymer, 2012, 53, 740-746.	3.8	11
98	Multipurpose soft-material SAXS/WAXS/GISAXS beamline at SPring-8. Polymer Journal, 2011, 43, 471-477.	2.7	112
99	Crystal Structure Analysis of Ethyleneâ^'Tetrafluoroethylene Alternating Copolymer. Macromolecules, 2011, 44, 1540-1548.	4.8	22
100	Mono-Substituted Phenol-Based Benzoxazines. , 2011, , 111-126.		7
101	Supramolecular Chemistry of Benzoxazines. , 2011, , 331-354.		3
102	Polyethylenimine Containing Benzimidazole Branching: A Model System Providing a Balance of Hydrogen Bond Network or Chain Mobility Enhances Proton Conductivity. Journal of Physical Chemistry B, 2011, 115, 11359-11367.	2.6	22
103	Systematic Study of Aggregation Structure and Thermal Behavior of a Series of Unique H-Shape Alkane Molecules. Journal of Physical Chemistry B, 2011, 115, 9537-9546.	2.6	5
104	Structural Regularization in the Crystallization Process from the Glass or Melt of Poly(<scp>l</scp>-lactic Acid) Viewed from the Temperature-Dependent and Time-Resolved Measurements of FTIR and Wide-Angle/Small-Angle X-ray Scatterings. Macromolecules, 2011, 44, 9650-9660.	4.8	121
105	Crystal Structure Analysis of Poly(<scp>l</scp>-lactic Acid) Î± Form On the basis of the 2-Dimensional Wide-Angle Synchrotron X-ray and Neutron Diffraction Measurements. Macromolecules, 2011, 44, 6441-6452.	4.8	198
106	Static and Dynamic Structure Analyses of Polymer Crystals. Nihon Kessho Gakkaishi, 2011, 53, 387-395.	0.0	0
107	Cocrystallization phenomenon of polyoxymethylene blend samples between the deuterated and hydrogenated species. Polymer Journal, 2011, 43, 66-73.	2.7	16
108	Crystal structure and disorder in Poly(l-lactic acid) Î´ form (Î±â€² form) and the phase transition mechanism to the ordered Î± form. Polymer, 2011, 52, 6097-6109.	3.8	178

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109	Poly(acrylic acid-co-4-vinylimidazole)/Sulfonated poly(ether ether ketone) blend membranes: A role of polymer chain with proton acceptor and donor for enhancing proton transfer in anhydrous system. International Journal of Hydrogen Energy, 2011, 36, 10384-10391.	7.1	27
110	Structural heterogeneity and stress distribution in carbon fiber monofilament as revealed by synchrotron micro-beam X-ray scattering and micro-Raman spectral measurements. Carbon, 2011, 49, 1646-1652.	10.3	58
111	Systematic studies on benzimidazole derivatives: Molecular structures and their hydrogen bond networks formation toward proton transfer efficiency. Journal of Power Sources, 2011, 196, 6144-6152.	7.8	27
112	Effect of chain-length of n-alkane on solvent-induced crystallization and solvent exchange phenomenon in syndiotactic polystyrene. Polymer, 2011, 52, 822-829.	3.8	17
113	Enhanced Contrast of Wavelength-Selective Mid-Infrared Detectors Stable against Incident Angle and Temperature Changes. Japanese Journal of Applied Physics, 2011, 50, 037201.	1.5	3
114	Enhanced Contrast of Wavelength-Selective Mid-Infrared Detectors Stable against Incident Angle and Temperature Changes. Japanese Journal of Applied Physics, 2011, 50, 037201.	1.5	1
115	Sulfur hexafluoride plasma surface modification of Gly-Ala and Ala-Gly as Bombyx mori silk model compounds: Mechanism investigations. Journal of Molecular Structure, 2010, 963, 130-136.	3.6	9
116	Microscopic Fourier Transform Infrared Characterization on Two Types of Spherulite with Polymorphic Crystals in Poly(heptamethylene terephthalate). Macromolecular Rapid Communications, 2010, 31, 1343-1347.	3.9	12
117	Mesomorphic phase in oriented poly(pentamethylene 2,6-naphthalate). Polymer, 2010, 51, 998-1001.	3.8	5
118	Influence of alternating sequential fraction on the melting and glass transition temperatures of ethyleneâ€“tetrafluoroethylene copolymer. Polymer, 2010, 51, 4831-4835.	3.8	22
119	Real-time investigation of crystallization in nylon 6-clay nano-composite probed by infrared spectroscopy. Polymer, 2010, 51, 5585-5591.	3.8	34
120	Friction-induced dynamic chemical changes of tricresyl phosphate as lubricant additive observed under boundary lubrication with 2D fast imaging FTIR-ATR spectrometer. Wear, 2010, 268, 911-916.	3.1	23
121	Contrast Enhancement of Wavelength-Selective Detection of Mid-Infrared Using Localized Atmospheric-Pressure Plasma Treatment. Japanese Journal of Applied Physics, 2010, 49, 04DL18.	1.5	3
122	Correlation of Structure Changes in the Water-Induced Phase Transitions of Poly(ethylenimine) Viewed from Molecular, Crystal, and Higher-Order Levels As Studied by Simultaneous WAXD/SAXS/Raman Measurements. Macromolecules, 2010, 43, 402-408.	4.8	12
123	Six types of spherulite morphologies with polymorphic crystals in poly(heptamethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	3.8	20
124	Enhanced contrast of wavelength selective Mid-IR detector stable against temperature change. , 2010, , .		0
125	Influence of the monomer sequential distribution on the mechanical properties and temperature dependence of an ethyleneâ€“tetrafluoroethylene copolymer in association with the phaseâ€transition behavior. Journal of Applied Polymer Science, 2009, 114, 1710-1716.	2.6	11
126	Investigation of structural changes related to temperature: An understanding of H-bond based proton transfer in 4(5)-vinylimidazole and acrylic acid copolymer membrane. Solid State Ionics, 2009, 180, 132-140.	2.7	5

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127	Investigation of the role of benzimidazole-based model compounds on thermal stability and anhydrous proton conductivity of sulfonated poly(ether ether ketone). Solid State Ionics, 2009, 180, 738-745.	2.7	24
128	Crystallization, spherulite growth, and structure of blends of crystalline and amorphous poly(lactide)s. Polymer, 2009, 50, 4007-4017.	3.8	110
129	Influence of side branch on the elastic modulus of ethyleneâ€“tetrafluoroethylene terpolymers. Polymer, 2009, 50, 4612-4617.	3.8	8
130	Amorphous phase and crystalline morphology in blend of two polymorphic polyesters: Poly(hexamethylene terephthalate) and poly(heptamethylene terephthalate). Polymer, 2009, 50, 6312-6322.	3.8	12
131	Structural phase transitions of syndiotactic polystyrene. Progress in Polymer Science, 2009, 34, 280-315.	24.7	157
132	Isothermal Crystallization Behavior of Isotactic Polypropylene H/D Blends as Viewed from Time-Resolved FTIR and Synchrotron SAXS/WAXD Measurements. Macromolecules, 2009, 42, 4191-4199.	4.8	64
133	In Situ FTIR-ATR Observation of Phase Transition Behavior of n-Alkane Molecules Induced by Friction Motion on a Metal Interface. Journal of Physical Chemistry C, 2009, 113, 3287-3291.	3.1	12
134	Relationship between Morphological Change and Crystalline Phase Transitions of Polyethyleneâ^'Poly(ethylene Oxide) Diblock Copolymers, Revealed by the Temperature-dependent Synchrotron WAXD/SAXS and Infrared/Raman Spectral Measurements. Journal of Physical Chemistry B, 2009, 113, 2338-2346.	2.6	37
135	Relationship between Morphological Change and Crystalline Phase Transitions of Polyethyleneâ^'Poly(ethylene oxide) Diblock Copolymers. 3. Dependence of Morphological Transition Phenomena on the PE/PEO Segmental Lengths and Its Possible Origins. Journal of Physical Chemistry B, 2009, 113, 8495-8504.	2.6	18
136	Isotope Effect on the Isothermal Crystallization Behavior of Isotactic Polypropylene Blends between the Deuterated and Hydrogenated Species. Macromolecules, 2009, 42, 1672-1678.	4.8	23
137	Crystal Structures of n-Alkane with Three Functional Groups in the Middle and at Both Ends. Journal of Physical Chemistry A, 2009, 113, 2632-2639.	2.5	3
138	Crystallization behavior of polyethylene on silicon wafers in solution casting processes traced by time-resolved measurements of synchrotron grazing-incidence small-angle and wide-angle X-ray scattering. Journal of Physics: Conference Series, 2009, 184, 012015.	0.4	3
139	Structural evolution process ofisotacticpolypropylene in the isothermal crystallization from the melt. Journal of Physics: Conference Series, 2009, 184, 012001.	0.4	2
140	Structural evolution in the isothermal crystallization process of the molten nylon 10/10 traced by time-resolved infrared spectral measurements and synchrotron SAXS/WAXD measurements. Journal of Physics: Conference Series, 2009, 184, 012002.	0.4	7
141	First detection of lamella-gyroid-cylinder phase transition of neat polyethylene-poly(ethylene oxide) diblock copolymers on the basis of synchrotron WAXD/SAXS and infrared/Raman spectral measurements. Journal of Physics: Conference Series, 2009, 184, 012003.	0.4	3
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