

Hiroshi Jinnai

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244
papers

8,066
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46
h-index

77
g-index

262
ext. papers

8,720
ext. citations

5.2
avg, IF

5.82
L-index

#	Paper	IF	Citations
244	Small-molecule-directed nanoparticle assembly towards stimuli-responsive nanocomposites. <i>Nature Materials</i> , 2009 , 8, 979-85	27	392
243	Monolithic silica columns with various skeleton sizes and through-pore sizes for capillary liquid chromatography. <i>Journal of Chromatography A</i> , 2002 , 961, 53-63	4.5	260
242	Wetting transition from the Cassie-Baxter state to the Wenzel state on textured polymer surfaces. <i>Langmuir</i> , 2014 , 30, 2061-7	4	237
241	Transmission electron microtomography without the "missing wedge" for quantitative structural analysis. <i>Ultramicroscopy</i> , 2007 , 107, 8-15	3.1	190
240	Self-assembled ABC triblock copolymer double and triple helices. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6144-7	16.4	179
239	Microdomain Morphology in an ABC 3-Miktoarm Star Terpolymer: A Study by Energy-Filtering TEM and 3D Electron Tomography. <i>Macromolecules</i> , 2003 , 36, 6962-6966	5.5	168
238	Cylindrically Confined Diblock Copolymers. <i>Macromolecules</i> , 2009 , 42, 9082-9088	5.5	163
237	Direct measurement of interfacial curvature distributions in a bicontinuous block copolymer morphology. <i>Physical Review Letters</i> , 2000 , 84, 518-21	7.4	162
236	Transmission Electron Microtomography and Polymer Nanostructures. <i>Macromolecules</i> , 2010 , 43, 1675-1688	5.5	152
235	Electric Field Alignment of Asymmetric Diblock Copolymer Thin Films. <i>Macromolecules</i> , 2005 , 38, 10788-10798	5.5	140
234	Curvature Determination of Spinodal Interface in a Condensed Matter System. <i>Physical Review Letters</i> , 1997 , 78, 2248-2251	7.4	137
233	Solvent-Driven Evolution of Block Copolymer Morphology under 3D Confinement. <i>Macromolecules</i> , 2010 , 43, 7807-7812	5.5	121
232	Direct Observation of Three-Dimensional Bicontinuous Structure Developed via Spinodal Decomposition. <i>Macromolecules</i> , 1995 , 28, 4782-4784	5.5	110
231	Structural formation of hybrid siloxane-based polymer monolith in confined spaces. <i>Journal of Separation Science</i> , 2004 , 27, 874-86	3.4	106
230	Transmission electron microtomography in polymer research. <i>Polymer</i> , 2009 , 50, 1067-1087	3.9	105
229	Frustrated phases: polymeric self-assemblies in a 3D confinement. <i>Soft Matter</i> , 2014 , 10, 2919-31	3.6	101
228	Extreme-Performance Rubber Nanocomposites for Probing and Excavating Deep Oil Resources Using Multi-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2008 , 18, 3403-3409	15.6	101

227	Multipurpose soft-material SAXS/WAXS/GISAXS beamline at SPring-8. <i>Polymer Journal</i> , 2011 , 43, 471-477.	1.7	100
226	Novel neutron reflectometer SOFIA at J-PARC/MLF for in-situ soft-interface characterization. <i>Polymer Journal</i> , 2013 , 45, 100-108	2.7	98
225	Direct Observation of Internal Structures in Poly(N-isopropylacrylamide) Chemical Gels. <i>Macromolecules</i> , 1999 , 32, 7093-7099	5.5	92
224	Gold nanoparticles coated with semi-fluorinated oligo(ethylene glycol) produce sub-100 nm nanoparticle vesicles without templates. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7632-5	16.4	86
223	A double helical structure formed from an amorphous, achiral ABC triblock terpolymer. <i>Soft Matter</i> , 2009 , 5, 2042	3.6	83
222	Large-scale self-assembled zirconium phosphate smectic layers via a simple spray-coating process. <i>Nature Communications</i> , 2014 , 5, 3589	17.4	81
221	Geometrical Properties and Interface Dynamics: Time Evolution of Spinodal Interface in a Binary Polymer Mixture at the Critical Composition. <i>Langmuir</i> , 2000 , 16, 4380-4393	4	79
220	Scattering studies of self-assembling processes of polymer blends in spinodal decomposition. <i>Journal of Applied Crystallography</i> , 1991 , 24, 457-466	3.8	78
219	Counterion-mediated hierarchical self-assembly of an ABC miktoarm star terpolymer. <i>ACS Nano</i> , 2013 , 7, 4030-41	16.7	76
218	Phase transition and phase transformation in block copolymer nanoparticles. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1773-8	4.8	75
217	Dual-Axis Electron Tomography for Three-Dimensional Observations of Polymeric Nanostructures. <i>Macromolecules</i> , 2005 , 38, 10226-10233	5.5	70
216	Surface curvatures of trabecular bone microarchitecture. <i>Bone</i> , 2002 , 30, 191-4	4.7	67
215	Measurements of Interfacial Curvatures of Bicontinuous Structure from Three-Dimensional Digital Images. 1. A Parallel Surface Method. <i>Langmuir</i> , 1998 , 14, 1242-1249	4	67
214	Three-Dimensional Structure of a Nanocomposite Material Consisting of Two Kinds of Nanofillers and Rubbery Matrix Studied by Transmission Electron Microtomography. <i>Macromolecules</i> , 2007 , 40, 6758-6764	5.5	65
213	Electrical Performance of Organic Solar Cells with Additive-Assisted Vertical Phase Separation in the Photoactive Layer. <i>Advanced Energy Materials</i> , 2014 , 4, 1300612	21.8	63
212	Three-dimensional observation of confined phase-separated structures in block copolymer nanoparticles. <i>Soft Matter</i> , 2012 , 8, 3791	3.6	60
211	The Role of Solvent Additive Processing in High Performance Small Molecule Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 6531-6541	9.6	54
210	Influence of casting solvents on microphase-separated structures of poly(2-vinylpyridine)- block -polyisoprene. <i>Polymer</i> , 1999 , 40, 7147-7156	3.9	54

209	Time-resolved small-angle neutron scattering study of spinodal decomposition in deuterated and protonated polybutadiene blends. I. Effect of initial thermal fluctuations. <i>Journal of Chemical Physics</i> , 1993 , 99, 4845-4854	3.9	54
208	Current-injected spectrally-narrowed emissions from an organic transistor. <i>Advanced Materials</i> , 2010 , 22, 3708-12	24	52
207	Linking experiment and theory for three-dimensional networked binary metal nanoparticle-triblock terpolymer superstructures. <i>Nature Communications</i> , 2014 , 5, 3247	17.4	51
206	New epitaxial phase transition between DG and HEX in PS-b-PI. <i>Journal of the American Chemical Society</i> , 2009 , 131, 46-7	16.4	51
205	Mixing of immiscible polymers using nanoporous coordination templates. <i>Nature Communications</i> , 2015 , 6, 7473	17.4	50
204	Morphological Control of Helical Structures of an ABC-Type Triblock Terpolymer by Distribution Control of a Blending Homopolymer in a Block Copolymer Microdomain. <i>Macromolecules</i> , 2013 , 46, 6991-6997	5.5	50
203	Effect of film thickness on the phase behaviors of diblock copolymer thin film. <i>ACS Nano</i> , 2010 , 4, 3109-16	16.7	50
202	Formation of ordered macropores and templated nanopores in silica sol-gel system incorporated with EOBOBO triblock copolymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001 , 187-188, 117-122	5.1	49
201	Highly robust crystalsome via directed polymer crystallization at curved liquid/liquid interface. <i>Nature Communications</i> , 2016 , 7, 10599	17.4	48
200	Robust liquid marbles stabilized with surface-modified halloysite nanotubes. <i>Langmuir</i> , 2013 , 29, 14971-4	5	48
199	Mesoscopic Mechanical Analysis of Filled Elastomer with 3D-Finite Element Analysis and Transmission Electron Microtomography. <i>Rubber Chemistry and Technology</i> , 2008 , 81, 182-189	1.7	48
198	Influence of Trace Amount of Well-Dispersed Carbon Nanotubes on Structural Development and Tensile Properties of Polypropylene. <i>Macromolecules</i> , 2013 , 46, 463-473	5.5	46
197	Three-Dimensional Spatial Distributions of Pt Catalyst Nanoparticles on Carbon Substrates in Polymer Electrolyte Fuel Cells. <i>Electrochemistry</i> , 2011 , 79, 374-376	1.2	46
196	Morphological Characterization of Bicontinuous Phase-Separated Polymer Blends and One-Phase Microemulsions. <i>Macromolecules</i> , 1997 , 30, 130-136	5.5	46
195	Direct Observation of Twisted Grain Boundary in a Block Copolymer Lamellar Nanostructure□ <i>Macromolecules</i> , 2006 , 39, 5815-5819	5.5	46
194	Topological Similarity of Sponge-like Bicontinuous Morphologies Differing in Length Scale. <i>Advanced Materials</i> , 2002 , 14, 1615-1618	24	46
193	Control of Self-Assembled Structures in Binary Mixtures of AB Diblock Copolymer and A□ Diblock Copolymer by Changing the Interaction between B and C Block Chains□ <i>Macromolecules</i> , 1999 , 32, 2585-2596	5.5	46
192	Synthesis of ordered carbonaceous frameworks from organic crystals. <i>Nature Communications</i> , 2017 , 8, 109	17.4	45

191	Experimental station for multiscale surface structural analyses of soft-material films at SPring-8 via a GISWAX/GIXD/XR-integrated system. <i>Polymer Journal</i> , 2013 , 45, 109-116	2.7	44
190	Three-dimensional structural analysis of a block copolymer by scanning electron microscopy combined with a focused ion beam. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 677-683 ^{2.6}	2.6	44
189	3D Nanometer-Scale Study of Coexisting Bicontinuous Morphologies in a Block Copolymer/Homopolymer Blend. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 1424-1429	4.8	43
188	Dynamic interfacial properties of polymer blends under large step strains: shape recovery of a single droplet. <i>Polymer</i> , 2001 , 42, 757-764	3.9	43
187	Three-Dimensional Structure of a Sintered Macroporous Silica Gel. <i>Langmuir</i> , 2001 , 17, 619-625	4	42
186	Liquid marbles supported by monodisperse poly(methylsilsesquioxane) particles. <i>Langmuir</i> , 2014 , 30, 9071-5	4	41
185	Polymer Janus particles containing block-copolymer stabilized magnetic nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3262-6	9.5	41
184	Perforated Block Copolymer Vesicles with a Highly Folded Membrane. <i>Macromolecules</i> , 2007 , 40, 4389-4392	4.3	41
183	Direct Observation of HPL and DG Structure in PS-b-PI Thin Film by Transmission Electron Microscopy. <i>Macromolecules</i> , 2007 , 40, 2603-2605	5.5	41
182	Three-Dimensional Observation of Polymer Blend by X-ray Phase Tomography. <i>Macromolecules</i> , 2005 , 38, 7197-7200	5.5	41
181	Bone structure and mineralization demonstrated using synchrotron radiation computed tomography (SR-CT) in animal models: preliminary findings. <i>Journal of Bone and Mineral Metabolism</i> , 2003 , 21, 287-93	2.9	41
180	Time-resolved small-angle neutron scattering in intermediate- and late-stage spinodal decomposition of perdeuterated polybutadiene-protonated polyisoprene blends. <i>Macromolecules</i> , 1991 , 24, 282-289	5.5	40
179	Effect of Oscillatory Shear Deformation on Demixing Processes of Polymer Blends. <i>Macromolecules</i> , 1997 , 30, 1146-1152	5.5	38
178	Sponge-like Heterogeneous Gels: Hierarchical Structures in Poly(N-isopropylacrylamide) Chemical Gels As Observed by Combined Scattering and Confocal Microscopy Method. <i>Macromolecules</i> , 2008 , 41, 8210-8219	5.5	38
177	Super-resolution for asymmetric resolution of FIB-SEM 3D imaging using AI with deep learning. <i>Scientific Reports</i> , 2018 , 8, 5877	4.9	37
176	Nanofibrillar Networks in Poly(ethyl methacrylate) and Its Silica Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 11633-11642	3.4	37
175	Morphological investigation of midblock-sulfonated block ionomers prepared from solvents differing in polarity. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 432-8	4.8	36
174	Three-dimensional structure of a polymer/clay nanocomposite characterized by transmission electron microtomography. <i>Composite Interfaces</i> , 2006 , 13, 589-603	2.3	36

173	Three-Dimensional Observation of Phase-Separated Silica-Based Gels Confined between Parallel Plates. <i>Langmuir</i> , 2003 , 19, 5581-5585	4	36
172	Nanoprocessing and Nanofabrication of a Structured Polymer Film by the Focused-Ion-Beam Technique. <i>Macromolecules</i> , 2005 , 38, 3048-3050	5.5	35
171	Yolk/Shell Assembly of Gold Nanoparticles by Size Segregation in Solution. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3274-7	16.4	34
170	Organic solar cells based on three-dimensionally percolated polythiophene nanowires with enhanced charge transport. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5640-50	9.5	34
169	Measurements of Interfacial Curvatures of Bicontinuous Structure from Three-Dimensional Digital Images. 2. A Sectioning and Fitting Method. <i>Langmuir</i> , 2001 , 17, 3254-3265	4	34
168	Microstructure effects on the lower critical solution temperature phase behavior of deuterated polybutadiene and protonated polyisoprene blends studied by small-angle neutron scattering. <i>Macromolecules</i> , 1991 , 24, 4839-4843	5.5	34
167	Creating suprapolymer assemblies: nanowires, nanorings, and nanospheres prepared from symmetric block-copolymers confined in spherical particles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7672		32
166	FIB-SEM and TEMT Observation of Highly Elastic Rubbery Material with Nanomatrix Structure. <i>Macromolecules</i> , 2008 , 41, 4510-4513	5.5	32
165	Three-Dimensional Imaging in Polymer Science: Its Application to Block Copolymer Morphologies and Rubber Composites. <i>Polymer Journal</i> , 2007 , 39, 749-758	2.7	31
164	Maximum diameter of the rod-shaped specimen for transmission electron microtomography without the "missing wedge". <i>Ultramicroscopy</i> , 2008 , 108, 221-9	3.1	31
163	A compatible crosslinker for enhancement of CO ₂ capture of poly(amidoamine) dendrimer-containing polymeric membranes. <i>Journal of Membrane Science</i> , 2015 , 475, 175-183	9.6	30
162	Cellulose nanofiber/elastomer composites with high tensile strength, modulus, toughness, and thermal stability prepared by high-shear kneading. <i>Composites Science and Technology</i> , 2020 , 188, 108005	8.6	30
161	Dynamical crossover between hyperdiffusion and subdiffusion of polymer-grafted nanoparticles in a polymer matrix. <i>Physical Review E</i> , 2013 , 88, 032602	2.4	30
160	Real-space evidence of the equilibrium ordered bicontinuous double diamond structure of a diblock copolymer. <i>Soft Matter</i> , 2015 , 11, 1871-6	3.6	30
159	Three-dimensional observation of phase-separated siloxane sol-gel structures in confined spaces using laser scanning confocal microscopy (LSCM). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004 , 241, 215-224	5.1	30
158	Small-angle neutron scattering studies on phase behavior of block copolymers. <i>Journal of Physics and Chemistry of Solids</i> , 1999 , 60, 1307-1312	3.9	30
157	Time-resolved small-angle neutron scattering study of spinodal decomposition in deuterated and protonated polybutadiene blends. II. Q-dependence of Onsager kinetic coefficient. <i>Journal of Chemical Physics</i> , 1993 , 99, 8154-8161	3.9	30
156	Preparation of poly(lactic-acid)-particle stabilized liquid marble and the improvement of its stability by uniform shell formation through solvent vapor exposure. <i>RSC Advances</i> , 2013 , 3, 7862	3.7	28

155	Self-Assembled ABC Triblock Copolymer Double and Triple Helices. <i>Angewandte Chemie</i> , 2009 , 121, 6260-6263	28
154	A Transition from Cylindrical to Spherical Morphology in Diblock Copolymer Thin Films. <i>Macromolecules</i> , 2008 , 41, 9318-9325	5.5 28
153	Connectivity and topology of a phase-separating bicontinuous structure in a polymer mixture: Direct measurements of coordination number, inter-junction distances and Euler characteristic. <i>Journal of Chemical Physics</i> , 2003 , 119, 7554-7559	3.9 28
152	Neutron Scattering Study of Vermiculite/Poly(vinyl methyl ether) Mixtures. <i>Langmuir</i> , 1996 , 12, 1199-1207	3 28
151	Salt Dependence of the Chain Stiffness and Excluded-Volume Strength for the Polymethacrylate-Type Sulfopropylbetaine in Aqueous NaCl Solutions. <i>Macromolecules</i> , 2015 , 48, 7194-7204	5.5 27
150	Spreading and structuring of water on superhydrophilic polyelectrolyte brush surfaces. <i>Langmuir</i> , 2013 , 29, 1148-51	4 27
149	Two-step phase separation of a polymer mixture. II. Time evolution of structure factor. <i>Journal of Chemical Physics</i> , 2000 , 112, 6897-6909	3.9 26
148	Two-step phase separation of a polymer mixture. I. New scaling analysis for the main scattering peak. <i>Journal of Chemical Physics</i> , 2000 , 112, 6886-6896	3.9 26
147	Ax/Bx-Type Block/Graft Polymers with Middle Soft Segments and Outer Hard Graft Chains by Ruthenium-Catalyzed Living Radical Polymerization: Synthesis and Characterization. <i>Macromolecules</i> , 2007 , 40, 465-473	5.5 25
146	The structural transitions of complexes of poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene) block copolymers with silver salts and their relation to facilitated olefin transport. <i>Journal of Membrane Science</i> , 2006 , 281, 369-376	9.6 25
145	Reduction of anisotropic image resolution in transmission electron microtomography by use of quadrangular prism-shaped section. <i>Microscopy (Oxford, England)</i> , 2005 , 54, 437-44	1.3 25
144	Effect of confinement on phase-separation processes in a polymer blend observed by laser scanning confocal microscopy. <i>Physical Review E</i> , 2003 , 67, 021801	2.4 25
143	Curvature distributions of spinodal interface in a condensed matter system. <i>Physical Review E</i> , 1999 , 59, R2554-R2557	2.4 25
142	Lateral Growth of 1D Core-Crystalline Micelles upon Annealing in Solution. <i>Macromolecules</i> , 2016 , 49, 7004-7014	5.5 25
141	Measurement of the Gaussian curvature of the surfactant film in an isometric bicontinuous one-phase microemulsion. <i>Physical Review E</i> , 1996 , 54, 6526-6531	2.4 24
140	Automated discrete electron tomography: Towards routine high-fidelity reconstruction of nanomaterials. <i>Ultramicroscopy</i> , 2017 , 175, 87-96	3.1 23
139	Stress prediction for polymer blends with various shapes of droplet phase. <i>Polymer</i> , 2007 , 48, 2371-2379	3.9 23
138	Interfacial and topological measurements of bicontinuous polymer morphologies. <i>Physical Review E</i> , 2001 , 64, 010803	2.4 23

137	Inversion of the phase diagram from UCST to LCST in deuterated polybutadiene and protonated polybutadiene blends. <i>Macromolecules</i> , 1992 , 25, 6078-6080	5.5	23
136	How does dense phase CO ₂ influence the phase behaviour of block copolymers synthesised by dispersion polymerisation?. <i>Polymer Chemistry</i> , 2016 , 7, 905-916	4.9	22
135	Measurement of the electrostatic interaction between polyelectrolyte brush surfaces by optical tweezers. <i>Langmuir</i> , 2013 , 29, 16093-7	4	22
134	Local lamellar structures in banded spherulites analyzed by three-dimensional electron tomography. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 1122-1125	2.6	22
133	Electron tomography in soft materials. <i>Current Opinion in Solid State and Materials Science</i> , 2013 , 17, 135-142	12	21
132	Effect of the phase-separated structure on CO ₂ separation performance of the poly(amidoamine) dendrimer immobilized in a poly(ethylene glycol) network. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1451-1454	1.4	21
131	Grating-assisted spectrally-narrowed emissions from an organic slab crystal excited with a mercury lamp. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 440-7	1.3	21
130	A Novel Structural Analysis for a Cylinder-Forming Block Copolymer Thin Film Using Neutron Reflectivity Aided by Transmission Electron Microtomography. <i>Macromolecules</i> , 2007 , 40, 6940-6946	5.5	21
129	AxBAx-type block-graft polymers with soft methacrylate middle segments and hard styrene outer grafts: synthesis, morphology, and mechanical properties. <i>Chemistry - an Asian Journal</i> , 2007 , 2, 662-72	4.5	21
128	Three-Dimensional Observations of Grain Boundary Morphologies in a Cylinder-Forming Block Copolymer. <i>Macromolecular Symposia</i> , 2006 , 245-246, 170-174	0.8	21
127	Mutual consistency between simulated and measured pressure drops in silica monoliths based on geometrical parameters obtained by three-dimensional laser scanning confocal microscope observations. <i>Journal of Chromatography A</i> , 2006 , 1119, 95-104	4.5	21
126	Microstructural effects on the Ginzburg number and the crossover behavior in d-PB/PS blends. <i>Physical Review Letters</i> , 1994 , 73, 3427-3430	7.4	21
125	Surface and Interface Analyses of Polymer Brushes by Synchrotron Radiation. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 021014	1.5	20
124	Dependence of beam broadening on detection angle in scanning transmission electron microtomography. <i>Journal of Electron Microscopy</i> , 2010 , 59 Suppl 1, S45-53		20
123	A Ladder Morphology in an ABC Triblock Copolymer. <i>Macromolecular Symposia</i> , 2006 , 242, 80-86	0.8	20
122	Observation of Fine Structure in Bicontinuous Phase-Separated Domains of a Polymer Blend by Laser Scanning Confocal Microscopy. <i>Macromolecules</i> , 2001 , 34, 5186-5191	5.5	20
121	Phase separation in deuterated polycarbonate/poly(methylmethacrylate) blend near glass transition temperature. <i>Journal of Chemical Physics</i> , 1993 , 99, 2095-2100	3.9	20
120	X-ray photon correlation spectroscopy using a fast pixel array detector with a grid mask resolution enhancer. <i>Journal of Synchrotron Radiation</i> , 2012 , 19, 988-93	2.4	19

119	Transmission electron microtomography in soft materials. <i>Microscopy (Oxford, England)</i> , 2013 , 62, 243-583	19
118	Selected-area in situ generation of highly fluorescent organic nanowires embedded in a polymer film: the solvent-vapor-induced self-assembly process. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7715	19
117	Observation of the three-dimensional structure of actin bundles formed with polycations. <i>Biomacromolecules</i> , 2008 , 9, 537-42	6.9 19
116	Spatial arrangement of metal nanoparticles supported by porous polymer substrates studied by transmission electron microtomography. <i>Chemical Record</i> , 2006 , 6, 267-74	6.6 19
115	Late stage spinodal decomposition in binary critical fluids: scaling function obtained over a wide q-space of 4 orders of magnitude. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994 , 204, 261-276	3.3 19
114	Anatomy of triply-periodic network assemblies: characterizing skeletal and inter-domain surface geometry of block copolymer gyroids. <i>Soft Matter</i> , 2018 , 14, 3612-3623	3.6 18
113	3-Dimensional characterization of membrane with nanoporous structure using TEM tomography and image analysis. <i>Desalination</i> , 2010 , 250, 757-761	10.3 18
112	Phase Separation in Methylsiloxane Sol-Gel Systems in a Small Confined Space. <i>Journal of Sol-Gel Science and Technology</i> , 2003 , 26, 157-160	2.3 18
111	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	5.5 17
110	Silver Nanoparticle Arrays Prepared by In Situ Automatic Reduction of Silver Ions in Mussel-Inspired Block Copolymer Films. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 726-734	2.6 17
109	Preparation and characterization of polycarbonate nanocomposites based on surface-modified halloysite nanotubes. <i>Polymer Journal</i> , 2014 , 46, 307-312	2.7 17
108	Structural characterization of the Fddd phase in a diblock copolymer thin film by electron microtomography. <i>Soft Matter</i> , 2011 , 7, 10424	3.6 17
107	Validity of linear analysis in early-stage spinodal decomposition of a polymer mixture. <i>Journal of Chemical Physics</i> , 2000 , 113, 3414-3422	3.9 17
106	Tetragonally Perforated Lamellae of Polybutadiene-block-poly(2-vinylpyridine)-block-poly(tert-butyl methacrylate) (BVT) Triblock Terpolymers in the Bulk: Preparation, Cross-Linking, and Dissolution. <i>Macromolecules</i> , 2012 , 45, 7956-7963	5.5 16
105	Self-Sealing of Nanoporous Low Dielectric Constant Patterns Fabricated by Nanoimprint Lithography. <i>Advanced Materials</i> , 2008 , 20, 1934-1939	24 16
104	Epitaxial Phase Transition between Double Gyroid and Cylinder Phase in Diblock Copolymer Thin Film. <i>Macromolecules</i> , 2014 , 47, 8761-8767	5.5 15
103	Highly oriented and ordered double-helical morphology in ABC triblock terpolymer films up to micrometer thickness by solvent evaporation. <i>Polymer Journal</i> , 2012 , 44, 567-572	2.7 15
102	Phase separation with multiple length scales in polymer mixtures induced by autocatalytic reactions. <i>Physical Review E</i> , 1999 , 60, R1150-3	2.4 15

101	Effect of crosslinks on the miscibility of a deuterated polybutadiene and protonated polybutadiene blend. <i>Macromolecules</i> , 1993 , 26, 182-188	5.5	15
100	Three-Dimensional Visualization and Characterization of Polymeric Self-Assemblies by Transmission Electron Microtomography. <i>Accounts of Chemical Research</i> , 2017 , 50, 1293-1302	24.3	14
99	Swollen structure and electrostatic interactions of polyelectrolyte brush in aqueous solution. <i>Polymer</i> , 2016 , 98, 464-469	3.9	14
98	Fabrication of NIR-Excitable SERS-Active Composite Particles Composed of Densely Packed Au Nanoparticles on Polymer Microparticles. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 441-447 ¹	3.7	14
97	Arrangement of Block Copolymer Microdomains Confined inside Hemispherical Cavities. <i>Macromolecules</i> , 2013 , 46, 5301-5307	5.5	14
96	Three-Dimensional Visualization of a Single Block Copolymer in Lamellar Nanodomains. <i>Macromolecules</i> , 2008 , 41, 4845-4849	5.5	14
95	Finite-size effects on surface segregation in polymer blend films above and below the critical point of phase separation. <i>Europhysics Letters</i> , 2004 , 65, 671-677	1.6	14
94	Direct Characterization of In-Plane Phase Separation in Polystyrene Brush/Cyclohexane System. <i>Macromolecules</i> , 2016 , 49, 4862-4866	5.5	13
93	X-ray Computerized Tomography Observation of the Interfacial Structure of Liquid Marbles. <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 84-88	5.1	13
92	Molecular simulation of 2-dimensional microphase separation of single-component homopolymers grafted onto a planar substrate. <i>Europhysics Letters</i> , 2013 , 101, 16006	1.6	13
91	Nanohole structure prepared by a polystyrene-block-poly(methyl methacrylate)/poly(methyl methacrylate) mixture film. <i>Langmuir</i> , 2008 , 24, 12612-7	4	13
90	Morphological characterization of bicontinuous structures in polymer blends and microemulsions by the inverse-clipping method in the context of the clipped-random-wave model. <i>Physical Review E</i> , 2000 , 61, 6773-80	2.4	13
89	Strategy for Finely Aligned Gold Nanorod Arrays Using Polymer Brushes as a Template. <i>Langmuir</i> , 2020 , 36, 3590-3599	4	12
88	Interface-Directed Web-to-Pillar Transition of Microphase-Separated Siloxane Gels. <i>Langmuir</i> , 2003 , 19, 9101-9103	4	12
87	Interfacial curvature in phase-separating binary fluids: comparison between computer simulation and experiments. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 263, 369-377	3.3	12
86	Enhancement of Oxygen Reduction Reaction Activity of Pd Core-Pt Shell Structured Catalyst on a Potential Cycling Accelerated Durability Test. <i>Electrocatalysis</i> , 2018 , 9, 125-138	2.7	12
85	Multipod structures of lamellae-forming diblock copolymers in three-dimensional confinement spaces: Experimental observation and computer simulation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1702-1709	2.6	11
84	Chain-mixing behavior at interface between polystyrene brushes and polystyrene matrices. <i>Polymer Journal</i> , 2013 , 45, 117-123	2.7	11

83	Three-dimensional observation of macroporous silica gels and the study on structural formation mechanism. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 300, 245-252	5.1	11
82	Networks with controlled chirality via self-assembly of chiral triblock terpolymers. <i>Science Advances</i> , 2020 , 6,	14.3	11
81	Stabilizing the Ordered Bicontinuous Double Diamond Structure of Diblock Copolymer by Configurational Regularity. <i>Macromolecules</i> , 2018 , 51, 4049-4058	5.5	11
80	Adding Symmetry: Cylindrically Confined Crystallization of Nylon-6. <i>Macromolecules</i> , 2019 , 52, 3298-3305	5.5	10
79	Development of a three-dimensional tomography holder for in situ tensile deformation for soft materials. <i>Microscopy (Oxford, England)</i> , 2018 , 67, 296-300	1.3	10
78	Synthesis of Titanium-Containing Block, Random, End-Functionalized, and Junction-Functionalized Polymers via Ruthenium-Catalyzed Living Radical Polymerization and Direct Observation of Titanium Domains by Electron Microscopy. <i>Macromolecules</i> , 2014 , 47, 944-953	5.5	10
77	Morphological transition of triblock copolymer cylindrical micelles responding to solvent change. <i>Soft Matter</i> , 2012 , 8, 2144	3.6	10
76	Three-dimensional observation of phase-separated poly(methyl methacrylate)/poly(styrene-ran-4-bromostyrene) blends by 3D NMR microscopy with X-ray microscopy. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 470-475	2.9	10
75	Ultra-low dielectric properties of porous polyimide thin films fabricated by using the two kinds of templates with different particle sizes. <i>Polymer</i> , 2021 , 212, 123115	3.9	10
74	Molecular self-assembly of nylon-12 nanorods cylindrically confined to nanoporous alumina. <i>IUCrJ</i> , 2014 , 1, 439-45	4.7	9
73	Structural analysis of poly(amidoamine) dendrimer immobilized in crosslinked poly(ethylene glycol). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1156-1164	2.6	9
72	The Effect of Added Polymers on n-Butylammonium Vermiculite Swelling. <i>Clays and Clay Minerals</i> , 1997 , 45, 745-760	2.1	9
71	Sponge-like structures in polymer blends: visualization, physico-mathematical analysis, and universality. <i>Macromolecular Symposia</i> , 2002 , 190, 9-22	0.8	9
70	Scattering patterns and stress-strain relations on phase-separated ABA block copolymers under uniaxial elongating simulations. <i>Soft Matter</i> , 2019 , 15, 926-936	3.6	8
69	Self-Assembled Morphologies of Lamella-Forming Block Copolymers Confined in Conical Nanopores. <i>Macromolecules</i> , 2019 , 52, 4803-4811	5.5	8
68	An inverse modeling approach for predicting filled rubber performance. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 357, 112567	5.7	8
67	Direct Three-Dimensional Observations of Order-Order Transition from Gyroid to Cylindrical Structures in a Block Copolymer. <i>Progress of Theoretical Physics Supplement</i> , 2008 , 175, 166-173		8
66	Unusual Phase Behavior of End-Functionalized Polystyrene-block-poly(n-butyl methacrylate) Copolymer with Maleic Anhydride. <i>Macromolecules</i> , 2007 , 40, 7590-7593	5.5	7

65	Cellulose nanofiber-reinforced rubber composites prepared by TEMPO-functionalization and elastic kneading. <i>Composites Science and Technology</i> , 2021 , 210, 108815	8.6	7
64	Direct three-dimensional imaging of the fracture of fiber-reinforced plastic under uniaxial extension: Effect of adhesion between fibers and matrix. <i>Polymer</i> , 2017 , 116, 556-564	3.9	6
63	One-step nanopatterning of conjugated polymers by electron-beam-assisted electropolymerization. <i>Microscopy (Oxford, England)</i> , 2015 , 64, 205-12	1.3	6
62	Thermal gradient effect on the dynamical behavior of nanoparticles observed using X-ray photon correlation spectroscopy. <i>Polymer Journal</i> , 2013 , 45, 94-99	2.7	6
61	Field emission scanning electron microscopy combined with focused ion beam for rubbery material with nano-matrix structure. <i>Journal of Physics: Conference Series</i> , 2009 , 184, 012027	0.3	6
60	Tailoring Spontaneous Pillar Structure Using Phase-Separating Organosiloxane Sol-Gel Systems in Micro-Fabricated Grooves. <i>Journal of Sol-Gel Science and Technology</i> , 2005 , 35, 183-191	2.3	6
59	Evaluation of the appropriate size of the finite element representative volume for filled rubber composite analyses. <i>Mechanical Engineering Journal</i> , 2016 , 3, 16-00372-16-00372	0.5	6
58	Controlled incorporation behavior of gold nanoparticles into ABC triblock terpolymer with double-helical morphology. <i>Polymer Journal</i> , 2016 , 48, 509-515	2.7	5
57	Interfacial morphologies and associated processes of multicomponent polymers. <i>Polymer Journal</i> , 2018 , 50, 1121-1138	2.7	5
56	Visualization of the tensile fracture behaviors at adhesive interfaces between brass and sulfur-containing rubber studied by transmission electron microscopy. <i>Polymer</i> , 2019 , 181, 121789	3.9	5
55	Nanometer-scale Real-space Observation and Material Processing for Polymer Materials under Atmospheric Pressure: Application of Atmospheric Scanning Electron Microscopy. <i>Electrochemistry</i> , 2014 , 82, 359-363	1.2	5
54	Two-dimensional percolation phenomena of single-component linear homopolymer brushes. <i>Journal of Chemical Physics</i> , 2014 , 140, 054904	3.9	5
53	Controlled self-assemblies of polystyrene-block-polydimethylsiloxane micelles in cylindrical confinement through a micelle solution wetting method and Rayleigh-instability-driven transformation. <i>Soft Matter</i> , 2017 , 13, 5428-5436	3.6	5
52	Recent Advances in Transmission Electron Microtomography for Polymer Research. <i>Kobunshi Ronbunshu</i> , 2008 , 65, 547-561	0	5
51	Observation of constraint surface dynamics of polystyrene thin films by functionalization of a silsesquioxane cage. <i>Polymer</i> , 2016 , 105, 487-499	3.9	5
50	Cascade Self-Organization of Shish Kebabs in Fibers Spun from Polymer Solutions: Crystalline Fibrils Bridging Neighboring Kebabs Discovered by Transmission Electron Microtomography. <i>Macromolecules</i> , 2019 , 52, 575-591	5.5	5
49	Degradation of a Metal-Polymer Interface Observed by Element-Specific Focused Ion Beam-Scanning Electron Microscopy. <i>Langmuir</i> , 2020 , 36, 2816-2822	4	4
48	Effect of Water Swelling on the Tribological Properties of PMMA Spin-Cast Film and Brush in Aqueous Environment. <i>Tribology Letters</i> , 2014 , 55, 121-129	2.8	4

47	Morphology and photophysical properties of polymer thin films dispersed with dye nanoparticle. <i>Thin Solid Films</i> , 2008 , 516, 2615-2619	2.2	4
46	Electron Microtomography and Three-Dimensional Image Analysis in Polymer Nano-Science. <i>Nippon Gomu Kyokaishi</i> , 2003 , 76, 384-389	0	4
45	Novel Structural Analyses of Polymeric Materials by Three-Dimensional Microscopy. <i>Kobunshi Ronbunshu</i> , 2005 , 62, 488-501	0	4
44	Three-Dimensional Skeletonizing and Topological Analysis of Bicontinuous Network Structures.. <i>Kobunshi Ronbunshu</i> , 2001 , 58, 13-21	0	4
43	Nanoscale Stress Distribution in Silica-Nanoparticle-Filled Rubber as Observed by Transmission Electron Microscopy: Implications for Tire Application. <i>ACS Applied Nano Materials</i> , 2021 , 4, 4452-4461	5.6	4
42	Direct observation of polyelectrolyte brushes under wet and dry conditions by atmospheric scanning electron microscopy. <i>Microscopy (Oxford, England)</i> , 2016 , 65, 139-44	1.3	3
41	Interface manipulated two-phase nanostructure in a triblock terpolymer with a short middle segment. <i>Polymer Journal</i> , 2016 , 48, 533-538	2.7	3
40	The interface dynamics of bicontinuous phase separating structure in a polymer blend. <i>Journal of Physics: Conference Series</i> , 2009 , 184, 012029	0.3	3
39	A Neutron Reflectivity Study on a Terraced Lamellar Morphology in a Block Copolymer Thin Film. <i>Polymer Journal</i> , 2007 , 39, 1105-1111	2.7	3
38	Direct Three-Dimensional Observation of Phase Structures in a Non-aqueous Physical Gel by Synchrotron X-ray CT. <i>Kobunshi Ronbunshu</i> , 2003 , 60, 373-376	0	3
37	Dispersion State of Zirconium Oxide Particles in Polymer Blends and Viscoelastic Behavior of the Composites. <i>Nihon Reoraji Gakkaishi</i> , 2007 , 35, 1-9	0.8	3
36	Nanodiffraction Imaging of Polymer Crystals. <i>Macromolecules</i> , 2021 , 54, 6028-6037	5.5	3
35	Elucidation of oxygen reduction reaction and nanostructure of platinum-loaded graphene mesosponge for polymer electrolyte fuel cell electrocatalyst. <i>Electrochimica Acta</i> , 2021 , 370, 137705	6.7	3
34	Liquid Marbles from Polymer Particles: Formation Mechanism, Physical Characterizations, and Applications. <i>Kobunshi Ronbunshu</i> , 2017 , 74, 26-35	0	2
33	Frozen non-equilibrium structure for anisotropically deformed natural rubber with nanomatrix structure observed by 3D FIB-SEM and electron tomography. <i>Colloid and Polymer Science</i> , 2015 , 293, 2555-2563	2.4	2
32	FIB processing for natural rubber with nanomatrix structure. <i>Polymer</i> , 2015 , 57, 143-149	3.9	2
31	Hierarchical structure of the triclinic phase crystal in nylon 6,12 mediated by two-dimensional confinement. <i>Journal of Applied Crystallography</i> , 2020 , 53, 27-33	3.8	2
30	Visualization of chemical bonding in a silica-filled rubber nanocomposite using STEM-EELS. <i>Scientific Reports</i> , 2020 , 10, 21558	4.9	2

29	Crack propagation behaviors in a nanoparticle-filled rubber studied by in situ tensile electron microscopy. <i>Journal of Polymer Science</i> ,	2.4	2
28	Real-Space Studies on Interface in a Phase-Separated Polymer Blend by Laser Scanning Confocal Microscopy 1997 , 53-61		2
27	Single chain distribution analysis near a substrate using a combined method of three-dimensional imaging and SCF simulation. <i>European Polymer Journal</i> , 2011 , 47, 685-691	5.2	1
26	Tilt-angle measurement of a sample stage using a capacitive liquid-based inclinometer. <i>Journal of Electron Microscopy</i> , 2012 , 61, 193-8		1
25	TEM and STEM Tomography for thick polymer sample. <i>Microscopy and Microanalysis</i> , 2009 , 15, 630-631	0.5	1
24	A Joint Effort between Industry and Academia in the Development of Transmission Electron Microtomography for Nano-scale Three-dimensional (3D) Visualization. <i>Journal of Fiber Science and Technology</i> , 2009 , 65, P.377-P.380	0	1
23	Densely Arrayed Cage-Shaped Polymer Topologies Synthesized via Cyclopolymerization of Star-Shaped Macromonomers. <i>Macromolecules</i> , 2021 , 54, 9079-9090	5.5	1
22	Preparation of high-performance carbon nanotube/polyamide composite materials by elastic high-shear kneading and improvement of properties by induction heating treatment. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50512	2.9	1
21	Determination of Bulk and Solution Morphologies by Transmission Electron Microscopy1-42		1
20	Development of CO2 Separation Membrane with Poly(amido amine) Dendrimer. <i>Kobunshi Ronbunshu</i> , 2014 , 71, 202-210	0	0
19	Electron microscopy for polymer structures.. <i>Microscopy (Oxford, England)</i> , 2022 , 71, i148-i164	1.3	0
18	Structural Correlations of the Nonlinear Optical Response in Polydiacetylene Nanotubes Hybridized with Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 2763-2771	3.8	0
17	Transmission Electron Microscopy 2019 , 147-153		
16	Scanning Electron Microscopy 2019 , 141-146		
15	OM-II-2Scanning Transmission Electron Microscopy Observation of Polymeric Materials without Staining. <i>Microscopy (Oxford, England)</i> , 2016 , 65, i14.2-i14	1.3	
14	Three-Dimensional Structural Analysis of Nanocomposite Materials Containing Nanoparticulates 2018 , 721-726		
13	Three-dimensional microscopy for multi-scale imaging: from nano to macro. <i>Microscopy (Oxford, England)</i> , 2014 , 63 Suppl 1, i3	1.3	
12	Study on Three-dimensional Structures in Injection-molded iPP/Poly(ethylene-co-octene) by Transmission Electron Microtomography. <i>E-Journal of Soft Materials</i> , 2006 , 2, 56-61		

11	Three Dimensional Structure and Liquid Transport Behavior of Siloxane Gels with Co-continuous Macropores. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 847, 454	
10	3D Observation of Nano-Structures in a Block Copolymer Thin Film by Transmission Electron Microtomography. <i>Journal of the Adhesion Society of Japan</i> , 2005 , 41, 203-208	0.1
9	?????????????????????. <i>Seikei-Kakou</i> , 2004 , 16, 342-345	0
8	Three-dimensional Structural Analysis of Block Copolymer Morphology by Scanning Electron Microscopy Combined with Focused Ion Beam. <i>Materia Japan</i> , 2007 , 46, 806-806	0.1
7	Ultrastructural localization of the neurotrophin receptor (TrkA) in cultured rat pheochromocytoma PC12 Cells: three-dimensional image analysis by high voltage electron microscopy. <i>Biomedical Research</i> , 2007 , 28, 161-7	1.5
6	?????????????????????. <i>Seikei-Kakou</i> , 2007 , 19, 468-472	0
5	Three-dimensional Imaging on Polymer Alloys. <i>Seikei-Kakou</i> , 2008 , 20, 100-105	0
4	In situ Three-dimensional Observation of Rubber Materials Under Tensile Deformation. <i>Nippon Gomu Kyokaishi</i> , 2018 , 91, 370-374	0
3	Recent Advances in Multi-Scale Tomographic Techniques in Polymer Research. <i>Kobunshi Ronbunshu</i> , 2012 , 69, 358-365	0
2	Three-Dimensional Structural Analysis by Tomographic Methods. <i>Seikei-Kakou</i> , 2013 , 25, 512-516	0
1	Electron tomography. <i>Keikinzo/Journal of Japan Institute of Light Metals</i> , 2014 , 64, 117-120	0.3