

Mitsuhiro Shibayama

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Design and Fabrication of a High-Strength Hydrogel with Ideally Homogeneous Network Structure from Tetrahedron-like Macromonomers. <i>Macromolecules</i> , 2008, 41, 5379-5384.	4.8	1,040
2	Domain-Boundary Structure of Styrene-Isoprene Block Copolymer Films Cast from Solution. 4. Molecular-Weight Dependence of Lamellar Microdomains. <i>Macromolecules</i> , 1980, 13, 1237-1247.	4.8	426
3	Small angle neutron scattering study on poly(N-isopropyl acrylamide) gels near their volume phase transition temperature. <i>Journal of Chemical Physics</i> , 1992, 97, 6829-6841.	3.0	395
4	Molecular Basis of the Shish-Kebab Morphology in Polymer Crystallization. <i>Science</i> , 2007, 316, 1014-1017.	12.6	381
5	Thermal Properties of Copolymer Gels Containing N-Isopropylacrylamide. <i>Macromolecules</i> , 1996, 29, 2019-2024.	4.8	269
6	Structure Characterization of Tetra-PEG Gel by Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2009, 42, 1344-1351.	4.8	247
7	SANS and SLS Studies on Tetra-Arm PEG Gels in As-Prepared and Swollen States. <i>Macromolecules</i> , 2009, 42, 6245-6252.	4.8	227
8	Ordered structure in block polymer solutions. 4. Scaling rules on size of fluctuations with block molecular weight, concentration, and temperature in segregation and homogeneous regimes. <i>Macromolecules</i> , 1983, 16, 1093-1101.	4.8	219
9	Small-angle neutron scattering study on weakly charged temperature sensitive polymer gels. <i>Journal of Chemical Physics</i> , 1992, 97, 6842-6854.	3.0	214
10	Phase Separation Induced Mechanical Transition of Poly(N-isopropylacrylamide)/Water Isochore Gels. <i>Macromolecules</i> , 1994, 27, 5060-5066.	4.8	205
11	Structural Characteristics of Double Network Gels with Extremely High Mechanical Strength. <i>Macromolecules</i> , 2004, 37, 5370-5374.	4.8	198
12	Small-angle neutron scattering on polymer gels: phase behavior, inhomogeneities and deformation mechanisms. <i>Polymer Journal</i> , 2011, 43, 18-34.	2.7	196
13	Study of miscibility and critical phenomena of deuterated polystyrene and hydrogenated poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overl	4.8	188
14	Structure-mechanical property relationship of tough hydrogels. <i>Soft Matter</i> , 2012, 8, 8030.	2.7	163
15	Gel Formation Analyses by Dynamic Light Scattering. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 641-659.	3.2	159
16	Gelation Mechanism of Poly(N-isopropylacrylamide)~Clay Nanocomposite Gels. <i>Macromolecules</i> , 2007, 40, 4287-4295.	4.8	157
17	Cross-link Density Dependence of Spatial Inhomogeneities and Dynamic Fluctuations of Poly(N-isopropylacrylamide) Gels. <i>Macromolecules</i> , 1996, 29, 8746-8750.	4.8	156
18	Dynamic Light Scattering Study of Poly(N-isopropylacrylamide-co-acrylic acid) Gels. <i>Macromolecules</i> , 1996, 29, 6535-6540.	4.8	151

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19	Vulcanization: New Focus on a Traditional Technology by Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2009, 42, 2741-2748.	4.8	141
20	Experimental evidences for molecular origin of low- Q peak in neutron/x-ray scattering of 1-alkyl-3-methylimidazolium bis(trifluoromethanesulfonyl)amide ionic liquids. <i>Journal of Chemical Physics</i> , 2011, 135, 244502.	3.0	140
21	Structure and Dynamics of Poly(N-isopropylacrylamide)~Clay Nanocomposite Gels. <i>Macromolecules</i> , 2004, 37, 9606-9612.	4.8	139
22	Highly Elastic and Deformable Hydrogel Formed from Tetra- ϵ -arm Polymers. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1954-1959.	3.9	136
23	Shrinking Kinetics of Poly(N-isopropylacrylamide) Gels Jumped across Their Volume Phase Transition Temperatures. <i>Macromolecules</i> , 1999, 32, 7461-7468.	4.8	133
24	Examination of the Theories of Rubber Elasticity Using an Ideal Polymer Network. <i>Macromolecules</i> , 2011, 44, 5817-5821.	4.8	133
25	Ordered structure in block polymer solutions. 1. Selective solvents. <i>Macromolecules</i> , 1983, 16, 16-28.	4.8	132
26	Morphology transition from cylindrical to lamellar microdomains of block copolymers. <i>Macromolecules</i> , 1993, 26, 485-491.	4.8	132
27	SANS Studies on Deformation Mechanism of Slide-Ring Gel. <i>Macromolecules</i> , 2005, 38, 6161-6167.	4.8	131
28	High-performance ion gel with tetra-PEG network. <i>Soft Matter</i> , 2012, 8, 1756-1759.	2.7	129
29	Kinetics of Volume Phase Transition in Poly(N-isopropylacrylamide-co-acrylic acid) Gels. <i>Macromolecules</i> , 1998, 31, 5336-5342.	4.8	126
30	Deuteration effects on the miscibility and phase separation kinetics of polymer blends. <i>Macromolecules</i> , 1986, 19, 1667-1674.	4.8	124
31	Small-Angle Neutron Scattering Study on Uniaxially Stretched Poly(N-isopropylacrylamide)~Clay Nanocomposite Gels. <i>Macromolecules</i> , 2005, 38, 10772-10781.	4.8	122
32	pH and salt concentration dependence of the microstructure of poly(N-isopropylacrylamide-co-acrylic acid) gels. <i>Journal of Applied Polymer Science</i> , 2007, 106, 1116-1124.	3.0	116
33	¹¹ B n.m.r. study on the reaction of poly(vinyl alcohol) with boric acid. <i>Polymer</i> , 1988, 29, 336-340.	3.8	115
34	Evaluation of Topological Defects in Tetra-PEG Gels. <i>Macromolecules</i> , 2010, 43, 488-493.	4.8	112
35	Stimuli-Responsive Diblock Copolymers by Living Cationic Polymerization: Precision Synthesis and Highly Sensitive Physical Gelation. <i>Macromolecules</i> , 2004, 37, 336-343.	4.8	111
36	Super-absorbency and phase transition of gels in physiological salt solutions. <i>Nature</i> , 1992, 360, 142-144.	27.8	110

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37	Small-angle x-ray scattering analyses of lamellar microdomains based on a model of one-dimensional paracrystal with uniaxial orientation. <i>Macromolecules</i> , 1986, 19, 740-749.	4.8	108
38	Nonuniformity in Natural Rubber As Revealed by Small-Angle Neutron Scattering, Small-Angle X-ray Scattering, and Atomic Force Microscopy. <i>Biomacromolecules</i> , 2007, 8, 693-699.	5.4	108
39	Micellization Study on Block and Gradient Copolymer Aqueous Solutions by DLS and SANS. <i>Macromolecules</i> , 2006, 39, 1592-1597.	4.8	105
40	Universality and Specificity of Polymer Gels Viewed by Scattering Methods. <i>Bulletin of the Chemical Society of Japan</i> , 2006, 79, 1799-1819.	3.2	103
41	Ordered structure in block polymer solutions. 2. Its effect on rheological behavior. <i>Macromolecules</i> , 1983, 16, 361-371.	4.8	100
42	Sol-gel transition of poly(vinyl alcohol)-borate complex. <i>Polymer</i> , 1988, 29, 2066-2071.	3.8	97
43	Rheological and Morphological Behavior of Styrene-Butadiene Diblock Copolymer Solutions in Selective Solvents. <i>Journal of Rheology</i> , 1982, 26, 153-179.	2.6	93
44	SANS Study on Pressure-Induced Phase Separation of Poly(N-isopropylacrylamide) Aqueous Solutions and Gels. <i>Macromolecules</i> , 2004, 37, 2909-2918.	4.8	93
45	Comparison of the gelation dynamics for polystyrenes prepared by conventional and living radical polymerizations: a time-resolved dynamic light scattering study. <i>Polymer</i> , 2005, 46, 1982-1994.	3.8	92
46	Ordered structure in block polymer solutions. 3. Concentration dependence of microdomains in nonselective solvents. <i>Macromolecules</i> , 1983, 16, 1427-1433.	4.8	90
47	Upgrade of the 32-Å small-angle neutron scattering instrument SANS-U. <i>Journal of Applied Crystallography</i> , 2005, 38, 1035-1037.	4.5	90
48	Small angle neutron scattering studies on structural inhomogeneities in polymer gels: irradiation cross-linked gels vs chemically cross-linked gels. <i>Polymer</i> , 2002, 43, 5289-5297.	3.8	84
49	An Apparatus for High Speed Measurements of Small-Angle X-Ray Scattering Profiles with a Linear Position Sensitive Detector. <i>Polymer Journal</i> , 1981, 13, 501-516.	2.7	83
50	Simple Scaling Rules on Swollen and Shrunken Polymer Gels. <i>Macromolecules</i> , 1997, 30, 7307-7312.	4.8	81
51	Clay Concentration Dependence of Microstructure in Deformed Poly(N-isopropylacrylamide)-Clay Nanocomposite Gels. <i>Macromolecules</i> , 2006, 39, 8112-8120.	4.8	81
52	Static inhomogeneities and dynamic fluctuations of temperature sensitive polymer gels. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 249, 245-252.	2.6	77
53	Inhomogeneity control in polymer gels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 617-628.	2.1	77
54	Kinetic Aspect on Gelation Mechanism of Tetra-PEG Hydrogel. <i>Macromolecules</i> , 2014, 47, 3274-3281.	4.8	76

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55	Ordered structure in block polymer solutions. 5. Equilibrium and nonequilibrium aspects of microdomain formation. <i>Macromolecules</i> , 1983, 16, 1434-1443.	4.8	74
56	Structure Relaxation of Hydrophobically Aggregated Poly(N-isopropylacrylamide) in Water. <i>Macromolecules</i> , 1996, 29, 6966-6968.	4.8	74
57	Small-angle neutron scattering from poly(vinyl alcohol)-borate gels. <i>Polymer</i> , 1992, 33, 2883-2890.	3.8	73
58	Effects of microdomain structures on the molecular orientation of poly(styrene-block-butadiene-block-styrene) triblock copolymer. <i>Macromolecules</i> , 1993, 26, 3351-3356.	4.8	73
59	Small-angle neutron scattering study on weakly charged poly(N-isopropyl acrylamide-co-acrylic acid) copolymer solutions. <i>Journal of Chemical Physics</i> , 1995, 102, 9392-9400.	3.0	71
60	Phase behaviour and sol-gel transition of poly(vinyl alcohol)-borate complex in aqueous solution. <i>Polymer</i> , 1992, 33, 2182-2188.	3.8	70
61	Difference in Lower Critical Solution Temperature Behavior between Random Copolymers and a Homopolymer Having Solvophilic and Solvophobic Structures in an Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4750-4754.	2.6	69
62	Polymer gel with a flexible and highly ordered three-dimensional network synthesized via bond percolation. <i>Science Advances</i> , 2019, 5, eaax8647.	10.3	69
63	Physical gels of aqueous poly(vinyl alcohol) solutions: a small-angle neutron-scattering study. <i>Macromolecules</i> , 1990, 23, 2245-2251.	4.8	68
64	Time-Resolved Dynamic Light Scattering Study on the Dynamics of Silica Gels during Gelation Process. <i>Macromolecules</i> , 2000, 33, 900-905.	4.8	68
65	Precise Control and Prediction of Hydrogel Degradation Behavior. <i>Macromolecules</i> , 2011, 44, 3567-3571.	4.8	67
66	Self-oscillating micelles. <i>Chemical Communications</i> , 2013, 49, 6947.	4.1	67
67	Current status of the 32m small-angle neutron scattering instrument, SANS-U. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 572, 853-858.	1.6	66
68	Evaluation of Gelation Kinetics of Tetra-PEG Gel. <i>Macromolecules</i> , 2010, 43, 3935-3940.	4.8	66
69	Effect of swelling and deswelling on the elasticity of polymer networks in the dilute to semi-dilute region. <i>Soft Matter</i> , 2012, 8, 2730.	2.7	66
70	SANS and DLS Study of Tacticity Effects on Hydrophobicity and Phase Separation of Poly(N-isopropylacrylamide). <i>Macromolecules</i> , 2013, 46, 6225-6232.	4.8	65
71	Effect of degree of cross-linking on spatial inhomogeneity in charged gels. I. Theoretical predictions and light scattering study. <i>Journal of Chemical Physics</i> , 1997, 107, 5227-5235.	3.0	64
72	Evaluation of Incoherent Neutron Scattering from Softmatter. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 2728-2736.	1.6	63

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73	Facile Syntheses of a Class of Supramolecular Gelator Following a Combinatorial Library Approach: Dynamic Light Scattering and Small-Angle Neutron Scattering Studies. <i>Chemistry of Materials</i> , 2005, 17, 741-748.	6.7	63
74	Self-Oscillating Vesicles: Spontaneous Cyclic Structural Changes of Synthetic Diblock Copolymers. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11248-11252.	13.8	62
75	Dependence of shrinking kinetics of poly(N-isopropylacrylamide) gels on preparation temperature. <i>Polymer</i> , 2002, 43, 3101-3107.	3.8	61
76	Synthesis and Self-Association of Stimuli-Responsive Diblock Copolymers by Living Cationic Polymerization. <i>Macromolecular Symposia</i> , 2004, 215, 151-164.	0.7	61
77	Distribution analyses of multi-modal dynamic light scattering data. <i>Polymer</i> , 2006, 47, 6446-6456.	3.8	60
78	Structure of Nanocomposite Hydrogel Investigated by Means of Contrast Variation Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2008, 41, 5406-5411.	4.8	60
79	Atomistic molecular dynamics study of cross-linked phenolic resins. <i>Soft Matter</i> , 2012, 8, 5283.	2.7	59
80	Star-Shaped Trimeric Quaternary Ammonium Bromide Surfactants: Adsorption and Aggregation Properties. <i>Langmuir</i> , 2012, 28, 9322-9331.	3.5	59
81	Heat-Induced Gelation of β -Lactoglobulin. 1. Time-Resolved Dynamic Light Scattering. <i>Macromolecules</i> , 2000, 33, 5470-5475.	4.8	58
82	Structural aspects of the LCST phase behavior of poly(benzyl methacrylate) in room-temperature ionic liquid. <i>Polymer</i> , 2011, 52, 1589-1595.	3.8	58
83	Amoeba-like self-oscillating polymeric fluids with autonomous sol-gel transition. <i>Nature Communications</i> , 2017, 8, 15862.	12.8	58
84	Structure characterization of polyurethanes containing poly(dimethylsiloxane). <i>Macromolecules</i> , 1991, 24, 6254-6262.	4.8	57
85	Rheo-SANS Studies on Shear-Thickening/Thinning in Aqueous Rodlike Micellar Solutions. <i>Langmuir</i> , 2011, 27, 1731-1738.	3.5	56
86	Swelling/Shrinking and Dynamic Light Scattering Studies on Chemically Cross-Linked Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	4.8	55
87	Cluster-Size Distribution of Cross-Linked Polymer Chains across the Gelation Threshold. <i>Macromolecules</i> , 1998, 31, 5316-5322.	4.8	55
88	Formation of ordered macropores and templated nanopores in silica sol-gel system incorporated with EO-PO-EO triblock copolymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 187-188, 117-122.	4.7	55
89	Gel point determination of gelatin hydrogels by dynamic light scattering and rheological measurements. <i>Physical Review E</i> , 2007, 76, 030401.	2.1	54
90	SANS Studies on Tetra-PEG Gel under Uniaxial Deformation. <i>Macromolecules</i> , 2011, 44, 1203-1210.	4.8	54

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91	Structural evolution of a catalyst ink for fuel cells during the drying process investigated by CV-SANS. <i>Polymer Journal</i> , 2015, 47, 546-555.	2.7	53
92	Heat-Induced Self-Assembling of Thermosensitive Block Copolymer. 1. Small-Angle Neutron Scattering Study. <i>Macromolecules</i> , 2002, 35, 8139-8146.	4.8	52
93	Preparation of high-strength poly(vinyl alcohol) fibers by crosslinking wet spinning. <i>Journal of Applied Polymer Science</i> , 1989, 37, 1403-1414.	2.6	51
94	Preparation Pressure Dependence of Structure Inhomogeneities and Dynamic Fluctuations in Poly(N-isopropylacrylamide) Gels. <i>Macromolecules</i> , 2001, 34, 911-917.	4.8	51
95	Reliable Hydrogel with Mechanical "Fuse Link" in an Aqueous Environment. <i>Advanced Materials</i> , 2015, 27, 7407-7411.	21.0	51
96	Preparation Temperature Dependence and Effects of Hydrolysis on Static Inhomogeneities of Poly(acrylamide) Gels. <i>Macromolecules</i> , 1999, 32, 3989-3993.	4.8	50
97	Critical Dynamics of Cross-Linked Polymer Chains near the Gelation Threshold. <i>Macromolecules</i> , 2000, 33, 2909-2915.	4.8	49
98	A Periodic Structure in a Mixture of D ₂ O/3-Methylpyridine/NaBPh ₄ Induced by Solvation Effect. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 113602.	1.6	49
99	Structure and Properties of Fatigued Segmented Poly(urethaneurea)s III. Quantitative Analyses of Hydrogen Bond. <i>Polymer Journal</i> , 1989, 21, 895-903.	2.7	48
100	Deformation mechanism of nanocomposite gels studied by contrast variation small-angle neutron scattering. <i>Physical Review E</i> , 2009, 80, 030801.	2.1	48
101	Nonuniformity in Cross-Linked Natural Rubber as Revealed by Contrast-Variation Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2010, 43, 1556-1563.	4.8	48
102	Time-Resolved Dynamic Light Scattering Study on Gelation and Gel-Melting Processes of Gelatin Gels. <i>Macromolecules</i> , 2001, 34, 8496-8502.	4.8	47
103	Small-Angle Neutron-Scattering Study on Preparation Temperature Dependence of Thermosensitive Gels. <i>Macromolecules</i> , 2002, 35, 4779-4784.	4.8	47
104	Time-Resolved Dynamic Light Scattering Studies on Gelation Process of Organic-Inorganic Polymer Hybrids. <i>Macromolecules</i> , 1999, 32, 1528-1533.	4.8	46
105	Mechanical properties of a polymer network of Tetra-PEG gel. <i>Polymer Journal</i> , 2013, 45, 300-306.	2.7	46
106	Heat-Induced Self-Assembling of Thermosensitive Block Copolymer. Rheology and Dynamic Light Scattering Study. <i>Macromolecules</i> , 2003, 36, 4099-4106.	4.8	45
107	Dynamic Inhomogeneities in Polymer Gels Investigated by Dynamic Light Scattering. <i>Macromolecules</i> , 2004, 37, 2944-2953.	4.8	45
108	Kinetic Study for AB-Type Coupling Reaction of Tetra-Arm Polymers. <i>Macromolecules</i> , 2012, 45, 1031-1036.	4.8	45

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109	Complexation of Poly(vinyl alcohol)-Congo Red Aqueous Solutions. 1. Viscosity Behavior and Gelation Mechanism. <i>Macromolecules</i> , 1994, 27, 1738-1743.	4.8	44
110	Small-Angle Neutron Scattering Study on Charged Gels in Deformed State. <i>Macromolecules</i> , 1998, 31, 2586-2592.	4.8	44
111	Sliding mode of cyclodextrin in polyrotaxane and slide-ring gel. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S2841-S2846.	1.8	44
112	Slide-ring gel: Topological gel with freely movable cross-links. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 692-696.	2.7	44
113	Small-Angle Neutron Scattering Study on End-Linked Poly(tetrahydrofuran) Networks. 1. Stoichiometrically Cross-Linked Gels. <i>Macromolecules</i> , 1995, 28, 6860-6864.	4.8	43
114	Small-angle neutron scattering study on block and gradient copolymer aqueous solutions. <i>Polymer</i> , 2006, 47, 7572-7579.	3.8	43
115	Small-Angle Neutron Scattering Study on Defect-Controlled Polymer Networks. <i>Macromolecules</i> , 2014, 47, 1801-1809.	4.8	43
116	Structural Analysis of High Performance Ion-Gel Comprising Tetra-PEG Network. <i>Macromolecules</i> , 2012, 45, 3902-3909.	4.8	42
117	Anomalous cross-link density dependence of scattering from charged gels. <i>Physical Review E</i> , 1997, 56, R51-R54.	2.1	41
118	Dynamic light scattering study on gelatin aqueous solutions and gels. <i>Journal of Chemical Physics</i> , 2001, 115, 4285-4291.	3.0	41
119	Concentration-Induced Conformational Change in Linear Polymer Threaded into Cyclic Molecules. <i>Macromolecules</i> , 2008, 41, 6480-6485.	4.8	41
120	Rubber elasticity for incomplete polymer networks. <i>Journal of Chemical Physics</i> , 2012, 137, 224903.	3.0	40
121	Sulfonated Polyimide/Ionic Liquid Composite Membranes for CO ₂ Separation: Transport Properties in Relation to Their Nanostructures. <i>Macromolecules</i> , 2018, 51, 7112-7120.	4.8	40
122	Dynamics of Probe Particles in Polymer Solutions and Gels. <i>Macromolecules</i> , 1999, 32, 7086-7092.	4.8	39
123	Microdomain structure of an ABC-type triblock polymer of polystyrene-poly[(4-vinylbenzyl)dimethylamine]-polyisoprene cast from solutions. <i>Macromolecules</i> , 1982, 15, 274-280.	4.8	38
124	Effects of non-uniform solvation on thermal response in poly(N-isopropylacrylamide) gels. <i>Polymer</i> , 2000, 41, 505-510.	3.8	38
125	Static Inhomogeneities in Physical Gels: Comparison of Temperature-Induced and Concentration-Induced Sol ⁺ Gel Transition. <i>Macromolecules</i> , 2000, 33, 7868-7876.	4.8	38
126	Water-Induced Self-Assembling of Solvent-Sensitive Block Copolymer. <i>Macromolecules</i> , 2004, 37, 7791-7798.	4.8	38

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127	Solâ€Gel Transition of Hydrophobically Modified Polyrotaxane. <i>Macromolecules</i> , 2006, 39, 9435-9440.	4.8	38
128	Rheological Study on Rapid Recovery of Hydrogel Based on Oligomeric Electrolyte. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11537-11541.	2.6	38
129	Fabrication and Structural Characterization of Module-Assembled Amphiphilic Conetwork Gels. <i>Macromolecules</i> , 2016, 49, 4940-4947.	4.8	38
130	Structure and orientational behaviour of polyurethane containing polydimethylsiloxane. <i>Polymer</i> , 1990, 31, 749-757.	3.8	37
131	Structure and Properties of Fatigued Segmented Poly(urethaneurea)s II. Structural Analyses of Fatigue Mechanism. <i>Polymer Journal</i> , 1987, 19, 1067-1080.	2.7	36
132	Analogy between Swelling of Gels and Intrinsic Viscosity of Polymer Solutions for Ion-Complexed Poly(vinyl alcohol) in Aqueous Medium. <i>Macromolecules</i> , 1996, 29, 885-891.	4.8	36
133	Effect of Degree of Cross-Linking on Spatial Inhomogeneity in Charged Gels. 2. Small-Angle Neutron Scattering Study. <i>Macromolecules</i> , 1998, 31, 3275-3281.	4.8	36
134	Structural and Rheological Studies on Growth of Salt-Free Wormlike Micelles Formed by Star-Type Trimeric Surfactants. <i>Langmuir</i> , 2012, 28, 16798-16806.	3.5	36
135	Asymptotic behavior and Lorentz factor for smallâ€angle elastic scattering profiles from preferentially oriented asymmetric bodies. <i>Journal of Applied Physics</i> , 1989, 66, 4188-4197.	2.5	35
136	Complexation of Poly(vinyl alcohol)-Congo Red Aqueous Solutions. 2. SANS and SAXS Studies on Sol-Gel Transition. <i>Macromolecules</i> , 1994, 27, 6383-6388.	4.8	35
137	Preparation and structure characterization of hairy nanoparticles consisting of hydrophobic core and thermosensitive hairs. <i>Polymer</i> , 2003, 44, 495-501.	3.8	35
138	Effect of Salt Content on the Rheological Properties of Hydrogel Based on Oligomeric Electrolyte. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1541-1547.	2.6	35
139	Relationship between mesoscale dynamics and shear relaxation of ionic liquids with long alkyl chain. <i>Journal of Chemical Physics</i> , 2012, 137, 104511.	3.0	35
140	Gelation and cross-link inhomogeneity of phenolic resins studied by ¹³ C-NMR spectroscopy and small-angle X-ray scattering. <i>Soft Matter</i> , 2013, 9, 4188.	2.7	35
141	Carbon Dioxide Separation Using a High-toughness Ion Gel with a Tetra-armed Polymer Network. <i>Chemistry Letters</i> , 2015, 44, 17-19.	1.3	34
142	Large-scale molecular dynamics simulation of crosslinked phenolic resins using pseudo-reaction model. <i>Polymer</i> , 2016, 103, 261-276.	3.8	34
143	Mesoscopic Structural Aspects of Ca ²⁺ -Triggered Polymer Chain Folding of a Tetraphenylethene-Appended Poly(acrylic acid) in Relation to Its Aggregation-Induced Emission Behavior. <i>Macromolecules</i> , 2017, 50, 5940-5945.	4.8	34
144	Solvation Structure of Poly(ethylene glycol) in Ionic Liquids Studied by High-energy X-ray Diffraction and Molecular Dynamics Simulations. <i>Macromolecules</i> , 2013, 46, 2369-2375.	4.8	33

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145	Non-thermo-responsive Decanano-sized Domains in Thermo-responsive Hydrogel Microspheres Revealed by Temperature-controlled High-speed Atomic Force Microscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8809-8813.	13.8	33
146	Time-resolved small-angle x-ray scattering studies on the kinetics of the order-disorder transition of block polymers. 1. Experimental technique. <i>Macromolecules</i> , 1986, 19, 750-754.	4.8	32
147	Comparison of the Experimental and Theoretical Structure Factors of Temperature Sensitive Polymer Gels. <i>Macromolecules</i> , 1998, 31, 1608-1614.	4.8	32
148	Cross-link inhomogeneity in phenolic resins at the initial stage of curing studied by 1H-pulse NMR spectroscopy and complementary SAXS/WAXS and SANS/WANS with a solvent-swelling technique. <i>Polymer</i> , 2016, 103, 152-162.	3.8	32
149	Structure and Rheology of Wormlike Micelles Formed by Fluorocarbon-Hydrocarbon-Type Hybrid Gemini Surfactant in Aqueous Solution. <i>Langmuir</i> , 2017, 33, 6084-6091.	3.5	32
150	Static inhomogeneities and dynamics of swollen and reactor-batch polymer gels. <i>Journal of Chemical Physics</i> , 2000, 112, 442-449.	3.0	31
151	Instrumental design and performance of a new pulsed-neutron reflectometer (ARISA) at KENS for studying free surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s264-s266.	2.3	31
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323	SANS study of hydrophobic effects on pressure-induced micro- and macrophase separations of block copolymers. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 749-751.	2.7	0
324	(Keynote) Preparation and Structural Investigation of Linear and 4-Arm Poly(ethylene glycol) (2 x 4) Tj ETQq0 0 0 rgBT ₃ /Overlock 10 Tf 5	0.0	0