

Young Chan Bae

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166
papers

2,157
citations

19
h-index

40
g-index

167
ext. papers

2,255
ext. citations

3.4
avg. IF

4.96
L-index

#	Paper	IF	Citations
166	Thermodynamic framework for switching the lower critical solution temperature of thermo-sensitive particle gels in aqueous solvent. <i>Polymer</i> , 2020 , 195, 122428	3.9	11
165	Thermodynamic analysis of phase equilibrium and surface tension of ternary polymer solutions. <i>AIChE Journal</i> , 2019 , 65, e16679	3.6	3
164	Phase equilibria and the surface tension of polypropylene polyol series in water/methanol mixtures: A consideration of structural effects. <i>Polymer</i> , 2018 , 146, 169-178	3.9	5
163	Group contribution method for the swelling behavior of thermo-responsive hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 455-463	2.6	4
162	Swelling behaviors of proton exchange membranes in alcohols. <i>Polymer</i> , 2017 , 130, 112-123	3.9	9
161	Applicability of lattice-based thermodynamic models to various types of hydrogel swelling behaviors. <i>Fluid Phase Equilibria</i> , 2016 , 427, 594-604	2.5	6
160	Phase Equilibrium and Interfacial Tension of Binary and Ternary Polymer Solutions. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 4157-4163	2.8	13
159	Continuous Thermodynamics of Polydisperse Polymer/Solvent Systems: Polystyrene/Cyclohexane and Polystyrene/Methyl Acetate Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 4104-4109	2.8	1
158	Effects of polydispersity on liquid-liquid equilibrium of polymeric fluids. <i>Fluid Phase Equilibria</i> , 2016 , 417, 220-228	2.5	7
157	Renormalization group corrections to the modified perturbed hard sphere chain equation of state for vapor liquid equilibria and interfacial tension of pure and binary mixtures. <i>Fluid Phase Equilibria</i> , 2016 , 430, 143-155	2.5	8
156	Effect of Salt on Swelling Behaviors of Thermosensitive Hydrogels: Applicability of the Nonrandom Contact Model. <i>Macromolecules</i> , 2015 , 48, 4063-4072	5.5	14
155	A cosolvency effect on tunable thermosensitive core-shell nanoparticle gels. <i>Soft Matter</i> , 2015 , 11, 3936-3945	3.45	5
154	New group contribution estimation of solvent activity in polymer solutions. <i>Fluid Phase Equilibria</i> , 2015 , 385, 275-289	2.5	0
153	Simplified Flory-dimer equation of state for application to non-associating fluids, polymers and their mixtures. <i>Fluid Phase Equilibria</i> , 2015 , 401, 88-101	2.5	2
152	Ab initio potential energy surface for methane and carbon dioxide and application to vapor-liquid coexistence. <i>Journal of Chemical Physics</i> , 2014 , 141, 064303	3.9	5
151	Enhanced solvation effect of re-collapsing behavior for cross-linked PMMA particle gel in aqueous alcohol solutions. <i>Polymer</i> , 2014 , 55, 4684-4692	3.9	23
150	Upper critical solution temperature-type thermosensitive hydrogel phase equilibrium of poly(2-hydroxyethyl methacrylate)/water/n-alkanol mixtures. <i>Polymer</i> , 2014 , 55, 3987-3994	3.9	5

149	Swelling behaviors of poly(methyl methacrylate) nano-sized gels in PEG/alcohol solutions. <i>Fluid Phase Equilibria</i> , 2014 , 382, 107-115	2.5	14
148	Swelling Behaviors of Poly(N-isopropylacrylamide) Nanosized Hydrogel Particles/Poly(vinyl alcohol)/Water Systems: Effect of the Degree of Hydrolysis of PVA. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 210-216	2.6	8
147	Hydrophilic/hydrophobic copolymer nano-sized particle gels: Swelling behavior and dependence on crosslinker chain length. <i>Fluid Phase Equilibria</i> , 2014 , 361, 200-207	2.5	10
146	Influence of hydroxyl group for thermoresponsive poly(N-isopropylacrylamide) gel particles in water/co-solvent (1,3-propanediol, glycerol) systems. <i>European Polymer Journal</i> , 2014 , 54, 151-159	5.2	8
145	Solubility of solids in supercritical fluid using the hard-body expanded virial equation of state. <i>Fluid Phase Equilibria</i> , 2014 , 362, 11-18	2.5	2
144	Comparison of thermodynamic lattice models for multicomponent mixtures. <i>Fluid Phase Equilibria</i> , 2014 , 380, 100-115	2.5	9
143	Swelling Behaviors of Doubly Thermosensitive Core-shell Nanoparticle Gels. <i>Macromolecules</i> , 2014 , 47, 8394-8403	5.5	29
142	A particle dynamic simulation for morphological aspects of proton exchange membranes. <i>Macromolecular Research</i> , 2013 , 21, 502-510	1.9	1
141	Molecular thermodynamic analysis for phase transitions of linear and cross-linked poly(N-isopropylacrylamide) in water/2-propanol mixtures. <i>Polymer</i> , 2013 , 54, 6776-6784	3.9	16
140	Molecular simulations and thermodynamic modeling for closed-loop phase miscibility of aqueous PEO solutions. <i>Macromolecular Research</i> , 2013 , 21, 921-930	1.9	8
139	Fourth order virial equation of state for spherical molecules using semi-soft core potential function. <i>Fluid Phase Equilibria</i> , 2013 , 338, 245-252	2.5	5
138	Co-nonsolvency effect of thermosensitive N-isopropylacrylamide nanometer-sized gel particles in water/PEG systems. <i>Polymer</i> , 2013 , 54, 2138-2145	3.9	11
137	Molecular thermodynamic analysis for reentrant and reentrant-convex type swelling behaviors of thermo-sensitive hydrogels in mixed solvents. <i>Polymer</i> , 2013 , 54, 2308-2314	3.9	8
136	Understanding phase behaviors of multicomponent polymer mixtures based on a molecular thermodynamic framework combined with molecular simulation. <i>Polymer</i> , 2012 , 53, 1339-1346	3.9	10
135	Molecular thermodynamic analysis for assessing the relationship between reentrant swelling behavior and ternary liquid-liquid equilibrium for poly(N-isopropylacrylamide) nanometer-sized gel particles in a water-tetrahydrofuran cosolvent system. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 2208-15	3.4	13
134	Role of intermolecular interactions for upper and lower critical solution temperature behaviors in polymer solutions: Molecular simulations and thermodynamic modeling. <i>Polymer</i> , 2012 , 53, 3772-3779	3.9	13
133	Understanding physical properties of solutions using equation of state: Electrolyte systems. <i>Fluid Phase Equilibria</i> , 2012 , 332, 94-104	2.5	1
132	Predicting the vapor/liquid equilibrium of hydrocarbon binary mixtures and polymer solutions using predetermined pure component parameters. <i>Chemical Physics</i> , 2012 , 400, 171-177	2.3	

131	Understanding physical properties of hydrocarbon polymers using an equation of state developed from semi soft core potential function. <i>Fluid Phase Equilibria</i> , 2012 , 317, 15-24	2.5	8
130	Liquid-liquid equilibria for ternary polymer mixtures. <i>Chemical Physics</i> , 2011 , 379, 128-133	2.3	7
129	Predicting the proton conductivity of perfluorosulfonic acid membrane via combining statistical thermodynamics and molecular dynamics simulation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 1455-1463	2.6	8
128	Understanding liquid mixture phase miscibility via pair energy parameter behaviors with respect to temperatures determined from molecular simulations. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 6051-6054	2.4	8
127	Correlation of thermodynamic modeling and molecular simulations for liquid-liquid equilibrium of ternary polymer mixtures based on a phenomenological scaling method. <i>Fluid Phase Equilibria</i> , 2011 , 307, 202-207	2.5	11
126	10.2478/s11814-009-0211-x 2011 , 26, 1365		
125	Phase equilibrium calculations of ternary liquid mixtures with binary interaction parameters and molecular size parameters determined from molecular dynamics. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8948-53	3.4	15
124	Theoretical consideration of osmotic pressure in aqueous protein/salt systems based on extended hard core Lennard-Jones potential. <i>Journal of Chemical Physics</i> , 2010 , 133, 154104	3.9	2
123	Closed-packed lattice model for polymer solution systems considering the chain length dependence effect: Correlating LLE, VLE, and gel swelling behaviors using identical interaction energy parameters. <i>Fluid Phase Equilibria</i> , 2010 , 299, 75-83	2.5	1
122	Correlations between phase behaviors and ionic conductivities of (ionic liquid+alcohol) systems. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 1316-1323	2.9	3
121	Liquid-liquid equilibria of polymer solutions: Applicability of extended Redlich-Kister expansion. <i>European Polymer Journal</i> , 2010 , 46, 238-245	5.2	2
120	Molecular thermodynamics approach for polymer-polymer miscibility. <i>European Polymer Journal</i> , 2010 , 46, 1328-1333	5.2	5
119	Applicability of a modified double lattice model for liquid-liquid equilibria of mixed-solvent polymer systems. <i>European Polymer Journal</i> , 2010 , 46, 1860-1865	5.2	10
118	Liquid-liquid equilibria of polymer solutions: Flory-huggins with specific interaction. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 162-167	2.6	19
117	Electrochemical properties for ionic liquid/polymer electrolyte systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 212-219	2.6	8
116	The dependence of the electrochemical properties of perfluorosulfonic acid membrane/water systems on repeat unit structure. <i>Journal of Chemical Physics</i> , 2009 , 131, 014901	3.9	1
115	Swelling effect of a polymer electrolyte membrane on the development of a semi-empirical cell voltage model. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1419-1424	2.6	3
114	Effect of pH on phase separation of globular protein. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 742-747	2.8	1

113	Salt-induced protein separation in an aqueous electrolyte solution. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 1365-1372	2.8	
112	Osmotic cross second virial coefficient (B ₂₃) of unfavorable proteins: Modified Lennard-Jones potential. <i>Macromolecular Research</i> , 2009 , 17, 763-769	1.9	2
111	Group contribution method for group contribution method for estimation of vapor liquid equilibria in polymer solutions. <i>Macromolecular Research</i> , 2009 , 17, 829-841	1.9	3
110	Reentrant swelling behavior of thermosensitive N-isopropylacrylamide nano-sized gel particles. <i>Polymer</i> , 2009 , 50, 3370-3377	3.9	33
109	Ionic conductivities of perfluorosulfonic acid membrane by group contribution method. <i>Polymer</i> , 2009 , 50, 3686-3692	3.9	7
108	The effects of interaction energy on the volume phase transition of N-isopropylacrylamide-co-N-isopropylmethacrylamide nano-sized gel particles: Applicability of molecular simulation technique. <i>Polymer</i> , 2009 , 50, 4957-4963	3.9	10
107	Phase behaviors of polymer solutions using molecular simulation technique. <i>Journal of Chemical Physics</i> , 2008 , 129, 064902	3.9	7
106	The Effect of Morphological Properties on the Electrochemical Behavior of High Tap Density LiFePO_4 Prepared via Coprecipitation. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A414	3.9	30
105	Effects of Metal Ions on the Structural and Thermal Stabilities of $\text{Li}[\text{Ni}_{1-x}\text{Co}_x\text{Mn}_y]\text{O}_{2(x+y/2)}$ Studied by In Situ High Temperature XRD. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A952	3.9	25
104	Closed miscibility loop phase behavior of polymer solutions. <i>Polymer</i> , 2008 , 49, 4469-4474	3.9	19
103	Consideration of long and middle range interaction on the calculation of activities for binary polymer solutions. <i>Macromolecular Research</i> , 2008 , 16, 320-328	1.9	
102	Vapor-liquid equilibria for polymer solutions through a group-contribution method: Chain-length dependence. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2634-2640	2.9	1
101	A semi-empirical cell voltage model for polymer electrolyte/methanol systems: Applicability of the group contribution method. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 3186-3194	2.9	
100	Phase behaviors of solid polymer electrolytes/salt system in lithium secondary battery by group-contribution method: Applicability of the extended Debye-Hückel theory. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 2884-2890	2.9	1
99	Effect of calcination temperature on morphology, crystallinity and electrochemical properties of nano-crystalline metal oxides (Co_3O_4 , CuO , and NiO) prepared via ultrasonic spray pyrolysis. <i>Journal of Power Sources</i> , 2007 , 173, 502-509	8.9	158
98	Thermodynamic model for partition coefficients in the two protein systems. <i>Macromolecular Research</i> , 2007 , 15, 682-687	1.9	2
97	Phase behaviors of solid polymer electrolytes/salt system in lithium secondary battery by group-contribution method: The pressure effect. <i>Polymer</i> , 2006 , 47, 211-217	3.9	2
96	Molecular thermodynamics approach for phase behaviors of solid polymer electrolytes/salt system in lithium secondary battery on the nonrandom mixing effect: Applicability of the group-contribution method. <i>Polymer</i> , 2006 , 47, 7153-7159	3.9	2

95	Nematic-isotropic phase behaviours of polydisperse polymer/liquid crystal systems: Applicability of continuous thermodynamics. <i>Fluid Phase Equilibria</i> , 2006 , 245, 102-108	2.5	5
94	Novel core-shell-structured Li[(Ni _{0.8} Co _{0.2}) _{0.8} (Ni _{0.5} Mn _{0.5}) _{0.2}]O ₂ via coprecipitation as positive electrode material for lithium secondary batteries. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6810-5	3.4	88
93	Nematic-isotropic phase behaviors of polydisperse polymer/liquid-crystal systems: Chain-length-dependent interaction parameter. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1031-1039	2.6	
92	Vapor-liquid equilibrium calculations of pure compounds from a hard-sphere-chain equation of state: The structure effect. <i>Chemical Physics</i> , 2006 , 324, 405-412	2.3	
91	Ionic conductivities of solid polymer electrolyte/salt systems: Group-contribution method. <i>Journal of Power Sources</i> , 2006 , 157, 448-456	8.9	1
90	Improvement of electrochemical properties of LiNi _{0.5} Mn _{1.5} O ₄ spinel material by fluorine substitution. <i>Journal of Power Sources</i> , 2006 , 157, 464-470	8.9	93
89	Water activities of polymeric membrane/water systems in fuel cells. <i>Journal of Power Sources</i> , 2006 , 157, 733-738	8.9	6
88	Thermodynamic properties of direct methanol polymer electrolyte fuel cell. <i>Journal of Power Sources</i> , 2005 , 145, 598-603	8.9	4
87	Ionic conductivities of solid polymer electrolyte/salt systems for lithium secondary battery. <i>Polymer</i> , 2005 , 46, 3111-3118	3.9	12
86	A semi-empirical cell voltage model for the direct methanol fuel cell: the methanol crossover effect. <i>Polymer</i> , 2005 , 46, 6494-6499	3.9	5
85	Phase behaviors of solid polymer electrolyte/salt systems in lithium secondary battery: the ionic interaction and nonrandomness effect. <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 471-477	2.5	
84	Phase behaviors of polymer blend(PEOBPO) electrolyte/LiCF ₃ SO ₃ systems in lithium battery. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 2314-2319	2.9	5
83	Open circuit voltage for solid polymer electrolyte/salt systems in lithium batteries. <i>Journal of Applied Electrochemistry</i> , 2005 , 35, 259-265	2.6	3
82	Electrochemical Properties for Solid Polymer Electrolyte/Salt Systems in Lithium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A864	3.9	6
81	Modified Double Lattice Model for Oligoethylene/Oligostyrene Blends. <i>Monatshefte für Chemie</i> , 2004 , 135, 493-499	1.4	
80	Comparison of Ag deposition effects on the photocatalytic activity of nanoparticulate TiO ₂ under visible and UV light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 163, 37-44	4.7	385
79	Phase behaviors of hyperbranched solid polymer electrolyte/salt systems: The structure effect. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 2254-2262	2.6	2
78	Phase behaviors of symmetric polymer blend systems. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 1532-1538	2.6	3

77	Mathematical modeling of the phase behaviors of solid-polymer-electrolyte/salt systems in lithium secondary batteries: The nonrandomness effect. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 231-237	2.9	4
76	Theoretical consideration on phase behaviors of poly(ethylene oxide-block-propylene oxide)/LiCF ₃ SO ₃ systems in lithium battery. <i>Electrochimica Acta</i> , 2004 , 49, 461-468	6.7	6
75	Polymer-polymer miscibility: generalized double lattice model. <i>Polymer</i> , 2004 , 45, 8067-8074	3.9	4
74	Cloud-point temperatures of lysozyme in electrolyte solutions by thermo-optical analysis technique. <i>Biophysical Chemistry</i> , 2004 , 109, 169-88	3.5	14
73	Semiempirical Method for the Prediction of the Theta (Lower Critical Solution Temperature) in Polymer Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 237-242	3.9	10
72	Liquid-liquid equilibria of binary polymer blends: molecular thermodynamic approach. <i>Macromolecular Symposia</i> , 2003 , 198, 1-10	0.8	
71	Salt-induced protein precipitation in aqueous solution: Single and binary protein systems. <i>Macromolecular Research</i> , 2003 , 11, 53-61	1.9	10
70	Phase behaviors of binary protein systems: Consideration of structural effects. <i>Macromolecular Research</i> , 2003 , 11, 241-249	1.9	6
69	The Effect of Alkane Chain Length on the Liquid-Liquid Critical Temperatures of Oligostyrene/Linear-Alkane Mixtures. <i>Monatshefte für Chemie</i> , 2003 , 134, 1529-1539	1.4	5
68	Molecular thermodynamics approach for liquid-liquid equilibria of the symmetric polymer blend systems. <i>Chemical Engineering Science</i> , 2003 , 58, 2931-2936	4.4	11
67	Heat and radiation effect on the degradation behaviors of polymeric liquids. <i>European Polymer Journal</i> , 2003 , 39, 1431-1435	5.2	6
66	Ionic conductivities of solid polymer electrolyte/salt systems in lithium battery: the pressure effect. <i>Polymer</i> , 2003 , 44, 3753-3759	3.9	4
65	The effect of pressure on phase behaviors of solid polymer electrolyte/salt systems in lithium battery. <i>Solid State Ionics</i> , 2003 , 158, 243-251	3.3	4
64	Salting-out in the aqueous single-protein solution: the effect of shape factor. <i>Biophysical Chemistry</i> , 2003 , 104, 523-33	3.5	11
63	Solvent activities of ordinary and associated binary polymer solutions: group-contribution method. <i>Fluid Phase Equilibria</i> , 2003 , 207, 247-261	2.5	3
62	Theory of melting point depression for SPE/salt systems; applicability of the extended PHSC model. <i>Fluid Phase Equilibria</i> , 2003 , 208, 189-198	2.5	1
61	Solvent activities of the fluorinated solid polymer electrolyte/water system in fuel cells. <i>Journal of Power Sources</i> , 2003 , 118, 157-161	8.9	
60	Lysozyme-lysozyme and lysozyme-salt interactions in the aqueous saline solution: a new square-well potential. <i>Biomacromolecules</i> , 2003 , 4, 1713-8	6.9	12

59	Phase Behavior of Nematic Liquid Crystal/Star-Polymer Systems. <i>Macromolecular Chemistry and Physics</i> , 2002 , 203, 41-47	2.6	1
58	New silanization coating for DNA fragment analysis by capillary electrophoresis. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 1405-1420	2.5	3
57	Effect of compression on the solid polymer electrolytes: The modified lattice-fluid model. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 706-713	2.6	2
56	Phase behaviors of partially ionized hydrogels in aqueous salt solutions: Applicability of the modified double-lattice model. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 2333-2338	2.6	7
55	Water activities of fluorinated solid polymer electrolyte/water systems using group-contribution method. <i>Chemical Engineering Science</i> , 2002 , 57, 2747-2752	4.4	3
54	Vapor-Liquid equilibria and liquid-Liquid equilibria calculations of binary polymer solutions. <i>Polymer</i> , 2002 , 43, 6627-6634	3.9	13
53	Theory for the capillary electrophoretic separation of DNA in polymer solutions. <i>Journal of Chromatography A</i> , 2002 , 967, 279-87	4.5	10
52	Phase behaviors of dendrimer/solvent systems: Molecular thermodynamics approach. <i>Journal of Chemical Physics</i> , 2002 , 116, 3484-3492	3.9	12
51	Phase behaviour of nematic liquid crystal/hyperbranched polymer systems. <i>Liquid Crystals</i> , 2001 , 28, 1539-1545	2.3	1
50	Vapor-Liquid equilibria of dendrimer solutions: the effect of endgroups at the periphery of dendrimer molecules. <i>Chemical Physics</i> , 2001 , 269, 285-294	2.3	10
49	Phase behaviors of smectic-A liquid crystal/linear polymer systems. <i>Chemical Physics</i> , 2001 , 271, 183-190	2.3	1
48	Ionic conductivities of solid polymer electrolytes: The effect of pressure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001 , 39, 1484-1491	2.6	2
47	Swelling behaviors of sub-micron-sized copolymer gel particles: The effect of physical crosslinking. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001 , 39, 1928-1934	2.6	3
46	Mechanical properties and ionic conductivity of gel polymer electrolyte based on poly(vinylidene-fluoride-co-hexafluoropropylene). <i>Journal of Applied Polymer Science</i> , 2001 , 81, 948-956	2.9	29
45	Mechanical properties and morphology of the modified HDPE/starch reactive blend. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 3313-3320	2.9	32
44	Vapor-Liquid Equilibria of Polymer Solutions by Group-Contribution Method: Applicability of Modified Double Lattice Model. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 1466-1471	2.6	1
43	Vapor-Liquid equilibria of perfluorinated SPE/fuel system using group-contribution method. <i>Electrochimica Acta</i> , 2001 , 46, 3535-3541	6.7	2
42	Phase behavior of hyperbranched polymer solutions with specific interactions. <i>Journal of Chemical Physics</i> , 2001 , 114, 5034-5042	3.9	17

41	Thermal stress analysis for polyimide thin film: The effect of solvent evaporation. <i>Macromolecular Theory and Simulations</i> , 2000 , 9, 281-286	1.5	12
40	Thermal stress analysis for polyimide thin film and a substrate layer system. <i>Macromolecular Chemistry and Physics</i> , 2000 , 201, 1286-1291	2.6	3
39	The effect of compression on the solid polymer electrolytes: Consideration of specific interaction. <i>Macromolecular Chemistry and Physics</i> , 2000 , 201, 1802-1807	2.6	
38	Phase behaviors of nematic liquid crystal/linear polymer systems: Effect of specific interactions. <i>Journal of Polymer Science Part A</i> , 2000 , 38, 4128-4136	2.5	1
37	Phase behaviors of solid polymer electrolyte/salt systems: the effect of pressure. <i>Electrochimica Acta</i> , 2000 , 45, 3157-3162	6.7	4
36	Phase transition behaviors of polyimide blends. <i>European Polymer Journal</i> , 2000 , 36, 495-501	5.2	2
35	Phase equilibria of fluid mixtures using a modified perturbed hard-sphere-chain equation of state. <i>Fluid Phase Equilibria</i> , 2000 , 168, 201-216	2.5	17
34	A modified perturbed hard-sphere-chain equation of state: consideration of attractive contribution. <i>Chemical Physics</i> , 2000 , 260, 337-345	2.3	8
33	Equations of state for hard spheres and hard-sphere chains. <i>Fluid Phase Equilibria</i> , 2000 , 167, 187-206	2.5	12
32	Salt-induced protein precipitation in aqueous solution: The effect of pre-aggregation. <i>Korean Journal of Chemical Engineering</i> , 2000 , 17, 638-642	2.8	4
31	Liquid-Liquid Equilibria of Dendrimer in Polar Solvent. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 7404-7408	2.8	12
30	Phase behaviors of solid polymer electrolytes: applicability of an extended Debye-Hückel theory. <i>Polymer</i> , 1999 , 40, 1979-1984	3.9	14
29	Phase behaviors of hyperbranched polymer solutions. <i>Polymer</i> , 1999 , 40, 6761-6768	3.9	25
28	Liquid-Liquid equilibria of polydisperse polymer systems: applicability of continuous thermodynamics. <i>Fluid Phase Equilibria</i> , 1999 , 157, 213-228	2.5	19
27	Configurational entropy effect for the conductivity of semicrystalline polymer/salt systems. <i>Fluid Phase Equilibria</i> , 1999 , 163, 291-302	2.5	14
26	Swelling behavior of N-isopropylacrylamide gel particles with degradable crosslinker. <i>European Polymer Journal</i> , 1999 , 35, 621-630	5.2	18
25	Liquid-Liquid equilibria of polydisperse polymer systems. <i>European Polymer Journal</i> , 1999 , 35, 1703-1711	5.2	10
24	Volume phase transition behavior of N-isopropyl acrylamide-cyanomethyl acrylamide copolymer gel particles: The effect of crosslinking density. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 1091-1099	2.9	7

23	Configurational entropy effect for conductivities of solid polymer electrolytes. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 1891-1897	2.9	6
22	Molecular thermodynamics of binary polymer solutions using modified double lattice model: Chain length dependence of primary lattice. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 2627-2633	2.9	8
21	Phase behaviour of nematic liquid crystal/linear polymer systems: Applicability of the extended Flory-Huggins theory. <i>Macromolecular Theory and Simulations</i> , 1999 , 8, 544-550	1.5	2
20	Liquid-liquid equilibria of polydisperse polymer systems showing both UCST and LCST phase behaviors. <i>Macromolecular Chemistry and Physics</i> , 1999 , 200, 1889-1896	2.6	2
19	Applicability of the rheological equation of state for thermoplastic composites. <i>Journal of Materials Science</i> , 1998 , 33, 223-227	4.3	2
18	Liquid-liquid equilibria of polymer solutions: a closed miscibility loop phase behavior. <i>Macromolecular Theory and Simulations</i> , 1998 , 7, 551-556	1.5	5
17	Volume-phase transition of submicron-sized N-isopropylacrylamide/N-tert-butylacrylamide particles by photon correlation spectroscopy. <i>Journal of Applied Polymer Science</i> , 1998 , 67, 2087-2092	2.9	31
16	Swelling behavior of thermosensitive N-isopropylacrylamide-ethyl N-acryloylglycine submicron-sized copolymer gel particles. <i>Journal of Applied Polymer Science</i> , 1998 , 69, 799-806	2.9	18
15	Phase behaviors of binary polymer solutions: The extended lattice fluid model 1998 , 70, 1143-1150		7
14	Liquid-liquid equilibria for binary polymer solutions from modified double-lattice model. <i>Polymer</i> , 1998 , 39, 1149-1154	3.9	78
13	Composition dependence of rheological properties of polymer blends. <i>Polymer</i> , 1998 , 39, 1113-1117	3.9	7
12	Chain length dependence of liquid-liquid equilibria of binary polymer solutions. <i>Polymer</i> , 1998 , 39, 1735-1739	3.9	18
11	Phase behaviours of solid polymer electrolytes: applicability of the melting point depression. <i>Polymer</i> , 1998 , 39, 3473-3477	3.9	9
10	Liquid-liquid equilibria of binary polymer solutions with specific interactions. <i>Polymer</i> , 1998 , 39, 6449-6454	3.9	16
9	Rheological properties of hollow sphere loaded polymer melts. <i>Polymer</i> , 1998 , 39, 6293-6299	3.9	3
8	Phase behaviours of polymer solutions in high pressure system. <i>Polymer</i> , 1998 , 39, 6905-6910	3.9	
7	Molecular thermodynamics for polymer alloys with specific interactions. <i>Fluid Phase Equilibria</i> , 1998 , 146, 15-24	2.5	
6	Effect of Cross-Linking Density on Swelling Behavior of NIPA Gel Particles. <i>Macromolecules</i> , 1998 , 31, 7328-7335	5.5	105

5	Phase transition of submicron sized N-alkylacrylamide-derivative copolymer particles: applicability of photon correlation spectroscopy. <i>Polymer</i> , 1997 , 38, 3471-3476	3.9	35
4	Physical properties of polymer blends and their theoretical consideration. <i>Polymer</i> , 1997 , 38, 3761-3766	3.9	8
3	Molecular thermodynamics approach for binary polymer solutions on the non-random mixing effect. <i>Polymer</i> , 1997 , 38, 4819-4823	3.9	7
2	Viscosity reduction of polymeric liquid by dissolved carbon dioxide. <i>Journal of Applied Polymer Science</i> , 1997 , 63, 459-466	2.9	23
1	Gas plasticization effect of carbon dioxide for polymeric liquid. <i>Polymer</i> , 1996 , 37, 3011-3017	3.9	6