Gyan Johari

List of Publications by Year
in descending order

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338 papers	11,393 citations	31902 53 h-index	54797 84 g-index
342 all docs	342 docs citations	342 times ranked	4176 citing authors

#	Article	IF	Citations
1	Effects of pressure-temperature protocols on the properties of crystals and ageing effects â€“ an analogy with glasses. Philosophical Magazine, 2022, 102, 299-320.	0.7	3
2	On the decrease of entropy on cooling polymer melts and an orientationally-disordered crystal. Thermochimica Acta, 2022, , 179186.	1.2	2
3	Entropy, enthalpy and volume of perfect crystals at limiting high pressure and the third law of thermodynamics. Thermochimica Acta, 2021, 698, 178891.	1.2	7
4	Variation of entropy and volume of liquids with pressure and their Kauzmann- and Simon-type extrapolations toward zero entropy. Thermochimica Acta, 2021, 700, 178936.	1.2	4
5	Decrease in heat capacity and enthalpy of an aging glass â€“ A conflict with standard procedure for determining enthalpy loss and fictive temperature. Thermochimica Acta, 2020, 693, 178715.	1.2	6
6	Endothermic Effects on Heating Physically Aged Sucrose Glasses and the Clausius Theorem Violation in Glass Thermodynamics. Journal of Physical Chemistry B, 2020, 124, 2017-2028.	1.2	8
7	Effects of Microstructure and Sampleâ€™s Surface to Volume Ratio on Pressure-Induced Nucleation and Transformation to Crystalline and Apparently Amorphous Solids. Journal of Physical Chemistry B, 2019, 123, 9992-9999.	1.2	2
8	Source of JG-Relaxation in the Entropy of Glass. Journal of Physical Chemistry B, 2019, 123, 3010-3023.	1.2	29
9	Johari-Goldstein relaxation in glass electrets. Physical Review Materials, 2019, 3, .	0.9	1
10	Instability and thermal conductivity of pressure-densified and elastically altered orientational glass of Buckminsterfullerene. Journal of Chemical Physics, 2018, 148, 144502.	1.2	4
11	Decrease in electrical resistivity on depletion of islands of mobility during aging of a bulk metal glass. Journal of Chemical Physics, 2018, 148, 144506.	1.2	8
12	Increasing the Ambient Pressure Solubility by Forming a Glass at High Pressure and Its Thermodynamics, a Much Sought-After Pharmaceutical Advantage. Journal of Physical Chemistry B, 2018, 122, 2031-2039.	1.2	7
13	Electric field for increasing the solubility of glass - a much sought after pharmaceutical advantage. Journal of Non-Crystalline Solids, 2018, 489, 27-32.	1.5	4
14	Structural relaxation and thermal conductivity of high-pressure formed, high-density di-n-butyl phthalate glass and pressure induced departures from equilibrium state. Journal of Chemical Physics, 2017, 146, 234505.	1.2	10
15	On relative merits of the criteria of glass formation and effects of ultraviscous liquid properties. Journal of Non-Crystalline Solids, 2017, 471, 439-445.	1.5	15
16	Endothermic features on heating of glasses show that the second glass to liquid transition of water was phenomenologically-mistaken. Thermochimica Acta, 2017, 647, 101-110.	1.2	3
17	Effects of electric field on thermodynamics and ordering of a dipolar liquid. Journal of Chemical Physics, 2016, 145, 164502.	1.2	23
18	Sub-T g features of glasses formed by cooling glycerol under pressure â€“ Additional incompatibility of vibrational with configurational states in the depressurized, high density glass. Journal of Chemical Physics, 2016, 145, 204506.	1.2	14

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19	Thermal conductivity of Glycerolâ€™s liquid, glass, and crystal states, glass-liquid-glass transition, and crystallization at high pressures. Journal of Chemical Physics, 2016, 144, 064504.	1.2	16
20	Aging kinetics of levoglucosan orientational glass as a rate dispersion process and consequences for the heterogeneous dynamics view. Journal of Chemical Physics, 2016, 145, 054501.	1.2	12
21	Structural fluctuations and orientational glass of levoglucosanâ€"High stability against ordering and absence of structural glass. Journal of Chemical Physics, 2015, 142, 104501.	1.2	20
22	Effect of incongruent crystallization on glassâ€"liquid transition features of a bulk metal glass. Thermochimica Acta, 2015, 615, 72-80.	1.2	5
23	Enthalpy and entropy changes during physical ageing of 20% polystyreneâ€"80% poly(Î±-methylstyrene) blend and the cooling rate effects. Thermochimica Acta, 2015, 607, 19-29.	1.2	10
24	Effects of nanometer-size Laponite disks on thermal conductivity and specific heat of water and ice, and the gelation time. Colloid and Polymer Science, 2015, 293, 901-911.	1.0	14
25	Effects of stacking disorder on thermal conductivity of cubic ice. Journal of Chemical Physics, 2015, 143, 054505.	1.2	11
26	Thermodynamic Analysis of the Two-Liquid Model for Anomalies of Water, HDLâ€"LDL Fluctuations, and Liquidâ€"Liquid Transition. Journal of Physical Chemistry B, 2015, 119, 14210-14220.	1.2	22
27	Kinetic-freezing and unfreezing of local-region fluctuations in a glass structure observed by heat capacity hysteresis. Journal of Chemical Physics, 2015, 142, 214501.	1.2	43
28	Comment on â€œWaterâ€™s second glass transition, K. Amann-Winkel, C. Gainaru, P. H. Handle, M. Seidl, H. Nelson, R. BÃ¶hmer, and T. Loerting, Proc. Natl. Acad. Sci. (U.S.) 110 (2013) 17720.â€• and the sub-Tg features of pressure-densified glasses. Thermochimica Acta, 2015, 617, 208-218.	1.2	19
29	Effects of configurational changes on electrical resistivity during glass-liquid transition of two bulk metal-alloy glasses. Journal of Chemical Physics, 2014, 141, 224508.	1.2	3
30	Change in entropy in thermal hysteresis of liquid-glass-liquid transition and consequences of violating the Clausius theorem. Journal of Chemical Physics, 2014, 141, 074502.	1.2	10
31	Comment on: â€œRelaxation time of high-density amorphous ice, by P. H. Handle, M. Seidl, T. Loerting; Phys. Rev. Lett. 108 (2012) 225901â€• The Î±-relaxation time of strained state of high-density amorphous ice at T<T g , its T g , and its transformations. Thermochimica Acta, 2014, 589, 76-84.	1.2	7
32	Calorimetric features of release of plastic deformation induced internal stresses, and approach to equilibrium state on annealing of crystals and glasses. Thermochimica Acta, 2014, 581, 14-25.	1.2	12
33	On the solubility advantage of a pharmaceuticalâ€™s glassy state over the crystal state, and of its crystal polymorphs. Thermochimica Acta, 2014, 598, 16-27.	1.2	12
34	Non-exponential relaxation, fictive temperatures, and dispersive kinetics in the liquid-glass-liquid transition range of acetaminophen, sulfathiazole, and their mixtures. Journal of Chemical Physics, 2014, 141, 174507.	1.2	6
35	Non-exponential nature of calorimetric and other relaxations: Effects of 2 nm-size solutes, loss of translational diffusion, isomer specificity, and sample size. Journal of Chemical Physics, 2013, 138, 12A511.	1.2	18
36	Effects of electric field on the entropy, viscosity, relaxation time, and glass-formation. Journal of Chemical Physics, 2013, 138, 154503.	1.2	58

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37	Calorimetric investigation of structural relaxation of bulk metallic glasses. , 2013, , .		0
38	Note: Effects of adding a viscosity-increasing 2 nm-size molecule on dielectric relaxation features and the dynamic heterogeneity view. Journal of Chemical Physics, 2013, 138, 196101.	1.2	8
39	On the state of water in 2.4 nm cylindrical pores of MCM from dynamic and normal specific heat studies. Journal of Chemical Physics, 2013, 139, 064507.	1.2	17
40	Specific heat of hydrated lysozyme, water's contribution to its dynamics, and criteria for glass formation of biomaterials. Journal of Chemical Physics, 2013, 139, 105102.	1.2	10
41	Note: Molecular architecture dependent hydrogen-bonded motifs, entropy change, and dielectric permittivity of alcohols. Journal of Chemical Physics, 2013, 139, 026101.	1.2	9
42	Effects of 2 nm size added heterogeneity on non-exponential dielectric response, and the dynamic heterogeneity view of molecular liquids. Journal of Chemical Physics, 2012, 137, 104502.	1.2	14
43	Comment on â€œDynamics of glass-forming liquids. XIII. Microwave heating in slow motionâ€•[J. Chem. Phys. 130, 194509 (2009)]. Journal of Chemical Physics, 2012, 137, 027101.	1.2	8
44	Specific Heat and Transformations of Water in 1.4 and 1.8 nm Pore-MCMs. Journal of Physical Chemistry C, 2012, 116, 2702-2709.	1.5	15
45	Electrode-spacer and other effects on the validity of the Kramersâ€“Kronig relations and the fittings to the permittivity and electrical modulus spectra. Thermochimica Acta, 2012, 547, 47-52.	1.2	10
46	Fictive temperatures of pharmaceutical glassesâ€”A comparison of two methods for determining the enthalpy and entropy integrals. Thermochimica Acta, 2012, 536, 41-46.	1.2	6
47	Effects of a chemically reacting, 2nm size heterogeneity on polymerization: A dielectric relaxation study. Thermochimica Acta, 2012, 540, 74-84.	1.2	2
48	Kinetics of Polymerization of a Liquid with Nanosize Structural Heterogeneities. Journal of Physical Chemistry B, 2011, 115, 13489-13501.	1.2	2
49	Response to the comment on â€˜Time-dependent paths, fictive temperatures and residual entropy of glassâ€™. Philosophical Magazine, 2011, 91, 3861-3864.	0.7	5
50	Specific heat relaxation-based critique of isothermal glass transition, zero residual entropy and time-average formalism for ergodicity loss. Thermochimica Acta, 2011, 523, 97-104.	1.2	17
51	Clausius limits on cooling and heating through the liquidâ€“glass range of three pharmaceuticals and one metal alloyâ€”Annealing effects and residual entropy. Thermochimica Acta, 2011, 522, 173-181.	1.2	12
52	Entropy change on the cooling and heating paths between liquid and glass and the residual entropy. Journal of Chemical Physics, 2011, 134, 034515.	1.2	17
53	Comment on â€œHeat capacity, enthalpy fluctuations, and configurational entropy in broken ergodic systemsâ€•[J. Chem. Phys. 133, 164503 (2010)]. Journal of Chemical Physics, 2011, 134, 147101.	1.2	5
54	Mechanical relaxation and the notion of time-dependent extent of ergodicity during the glass transition. Physical Review E, 2011, 84, 021501.	0.8	11

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55	Effect of pressure on thermal conductivity and pressure collapse of ice in a polymer-hydrogel and kinetic unfreezing at 1 GPa. Journal of Chemical Physics, 2011, 134, 124903.	1.2	6
56	Dielectric Study of Equimolar Acetaminophenâ€“Aspirin, Acetaminophenâ€“Quinidine, and Benzoic Acidâ€“Progesterone Molecular Alloys in the Glass and Ultraviscous States and Their Relevance to Solubility and Stability. Journal of Pharmaceutical Sciences, 2010, 99, 1358-1374.	1.6	27
57	On resolving the statistical and calorimetric entropies of glass and non-crystalline solids, and the residual entropy problem. Thermochimica Acta, 2010, 500, 111-118.	1.2	30
58	Enthalpy and entropy changes on structural relaxation of Mg65Cu25Tb10 glass. Thermochimica Acta, 2010, 503-504, 121-131.	1.2	25
59	Isothermal and non-isothermal crystallization kinetics of ultraviscous melt of Mg65Cu25Tb10 glass. Thermochimica Acta, 2010, 510, 144-153.	1.2	10
60	On determining the relaxation time of glass and amorphous pharmaceuticalsâ€™ stability from thermodynamic data. Thermochimica Acta, 2010, 511, 89-95.	1.2	10
61	Notes: Kinetic unfreezing of a binary alloy and configurational entropy. Journal of Chemical Physics, 2010, 133, 056101.	1.2	11
62	Fictive Temperature, Structural Relaxation, and Reality of Residual Entropy. Journal of Physical Chemistry B, 2010, 114, 9578-9585.	1.2	24
63	Configurational and residual entropies of nonergodic crystals and the entropyâ€™s behavior on glass formation. Journal of Chemical Physics, 2010, 132, 124509.	1.2	38
64	Time-dependent paths, fictive temperatures and residual entropy of glass. Philosophical Magazine, 2010, 90, 4377-4392.	0.7	18
65	Specific heat relaxation of an alcohol and implications for dielectric comparison. Journal of Chemical Physics, 2009, 130, 124505.	1.2	11
66	Pressure-induced collapse of ice clathrate and hexagonal ice mixtures formed by freezing. Journal of Chemical Physics, 2009, 131, 114503.	1.2	4
67	Origin of the enthalpy features of water in 1.8 nm pores of MCM-41 and the large Cp increase at 210 K. Journal of Chemical Physics, 2009, 130, 124518.	1.2	29
68	Thermal relaxation of water due to interfacial processes and phase equilibria in 1.8nm pores of MCM-41. Thermochimica Acta, 2009, 492, 29-36.	1.2	16
69	Dynamic and apparent specific heats during transformation of water in partly filled nanopores during slow cooling to 110K and heating. Thermochimica Acta, 2009, 492, 37-44.	1.2	25
70	Does water need a Î»-type transition?. Journal of Chemical Physics, 2009, 130, 126102.	1.2	15
71	Crystallization Kinetics of Ultraviscous Acetaminophen by Heat Capacity and Enthalpy Measurements and Diffusion Control. Journal of Physical Chemistry B, 2009, 113, 15293-15303.	1.2	3
72	Molecular Mobility, Thermodynamics and Stability of Griseofulvinâ€™s Ultraviscous and Glassy States from Dynamic Heat Capacity. Pharmaceutical Research, 2008, 25, 902-912.	1.7	11

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73	Vibrational and configurational specific heats during isothermal structural relaxation of a glass to equilibrium liquid. Physical Review B, 2008, 78, .	1.1	27
74	Specific Heat, Melting, Crystallization, and Oxidation of Zinc Nanoparticles and Their Transmission Electron Microscopy Studies. Journal of Physical Chemistry C, 2008, 112, 20159-20166.	1.5	25
75	Calorimetric Relaxation in Pharmaceutical Molecular Glasses and Its Utility in Understanding Their Stability Against Crystallization. Journal of Physical Chemistry B, 2008, 112, 10806-10814.	1.2	39
76	Nature of the pressure-induced collapse of an ice clathrate by dielectric spectroscopy. Journal of Chemical Physics, 2008, 129, 234505.	1.2	14
77	On the use of relaxation times for comparing ultraviscous liquid dynamics. Journal of Chemical Physics, 2008, 129, 056101.	1.2	11
78	Configurational specific heat of molecular liquids by modulated calorimetry. Journal of Chemical Physics, 2008, 129, 054501.	1.2	19
79	Vibrational and configurational parts of the specific heat at glass formation. Physical Review B, 2008, 77, .	1.1	20
80	Reply to â€œComment on â€˜Vibrational and configurational parts of the specific heat at glass formationâ€™ â€• Physical Review B, 2008, 78, .	1.1	2
81	Determining vibrational heat capacity and thermal expansivity and their change at glass-liquid transition. Journal of Chemical Physics, 2007, 126, 114901.	1.2	21
82	Vibrational and configurational heat capacity of poly(vinyl acetate) from dynamic measurements. Journal of Chemical Physics, 2007, 127, 014905.	1.2	21
83	Relaxation during polymerization on slow heating and the vibrational heat capacity of the polymers. Journal of Chemical Physics, 2007, 127, 024903.	1.2	4
84	Dielectric relaxation and crystallization of nanophase separated 1-propanol-isoamylbromide mixture. Journal of Chemical Physics, 2007, 127, 094507.	1.2	13
85	Comment on â€œGlass transition in pure and doped amorphous solid water: An ultrafast microcalorimetry studyâ€•[J. Chem. Phys. 125, 094501 (2006)]. Journal of Chemical Physics, 2007, 127, 157101.	1.2	8
86	In situtransformation of amorphous ices at high pressures. Physical Review B, 2007, 76, .	1.1	10
87	Spontaneous liquifaction of isomerizable molecular crystals. Journal of Chemical Physics, 2007, 126, 021107.	1.2	20
88	Memory effect in enthalpy relaxation of two metalâ€“alloy glasses. Journal of Non-Crystalline Solids, 2007, 353, 3796-3811.	1.5	30
89	Structure-Dependent DC Conductivity and Relaxation Time in the Debyeâ^'Stokesâ^'Einstein Equation. Journal of Physical Chemistry B, 2007, 111, 11201-11208.	1.2	17
90	Kinetics and Thermodynamics of Sucrose Hydrolysis from Real-Time Enthalpy and Heat Capacity Measurements. Journal of Physical Chemistry B, 2007, 111, 496-501.	1.2	36

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91	Relaxations and nano-phase-separation in ultraviscous heptanol-alkyl halide mixture. Journal of Chemical Physics, 2007, 126, 034512.	1.2	26
92	Dielectric Relaxation and Crystallization of Ultraviscous Melt and Glassy States of Aspirin, Ibuprofen, Progesterone, and Quinidine. Journal of Pharmaceutical Sciences, 2007, 96, 1159-1175.	1.6	80
93	Vibrational and relaxational properties of crystalline and amorphous ices. Thermochimica Acta, 2007, 461, 14-43.	1.2	50
94	On Poisson's ratio of glass and liquid vitrification characteristics. Philosophical Magazine, 2006, 86, 1567-1579.	0.7	51
95	Poisson's ratio and liquid's fragility. Nature, 2006, 442, E7-E8.	13.7	27
96	Structural Relaxation of Acetaminophen Glass. Pharmaceutical Research, 2006, 23, 967-979.	1.7	69
97	Dynamic Heat Capacity and Relaxation Time of Ultraviscous Melt and Glassy Acetaminophen. Journal of Pharmaceutical Sciences, 2006, 95, 1006-1021.	1.6	33
98	Effect of Pressure on Molecular and Ionic Motions in Ultraviscous Acetaminophenâ€“Aspirin Mixture. Journal of Pharmaceutical Sciences, 2006, 95, 2406-2418.	1.6	8
99	Kinetics of spontaneous change in the localized motions of D-sorbitol glass. Journal of Chemical Physics, 2006, 124, 074509.	1.2	32
100	Thermal conductivity of a polymerizing liquid. Journal of Chemical Physics, 2006, 125, 054907.	1.2	10
101	Orientation polarization from faster motions in the ultraviscous and glassy diethyl phthalate and its entropy. Journal of Chemical Physics, 2006, 124, 044513.	1.2	14
102	Dielectric relaxation and elasticity during polymerization. Journal of Chemical Physics, 2006, 125, 014907.	1.2	9
103	Change in the vibrational properties of bulk metal glass with time. Physical Review B, 2006, 73, .	1.1	26
104	Heat capacity of tetrahydrofuran clathrate hydrate and of its components, and the clathrate formation from supercooled melt. Journal of Chemical Physics, 2006, 124, 154507.	1.2	40
105	Evolution of vibrational properties during a macromoleculeâ€™s growth. Journal of Chemical Physics, 2006, 124, 154906.	1.2	7
106	Vibrational features of waterâ€™s amorph at high pressures. Physical Review B, 2006, 73, .	1.1	20
107	On the nonlinear variation of dc conductivity with dielectric relaxation time. Journal of Chemical Physics, 2006, 125, 124501.	1.2	31
108	Dielectric relaxation time of bulk water at 136â€“140K, background loss and crystallization effects. Journal of Chemical Physics, 2005, 122, 144508.	1.2	34

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109	Dielectric Studies of Molecular Motions in Amorphous Solid and Ultraviscous Acetaminophen. Journal of Pharmaceutical Sciences, 2005, 94, 2207-2223.	1.6	67
110	Endothermic freezing on heating and exothermic melting on cooling. Journal of Chemical Physics, 2005, 123, 051104.	1.2	28
111	Waterâ€™s size-dependent freezing to cubic ice. Journal of Chemical Physics, 2005, 122, 194504.	1.2	76
112	A dielectric fallacy in inferring Tg of water. Journal of Chemical Physics, 2005, 122, 036101.	1.2	5
113	Heat capacity of water in nanopores. Journal of Chemical Physics, 2005, 123, 214706.	1.2	19
114	On the notion of â€œ1â^•f noiseâ€•and data analysis for glassy water. Journal of Chemical Physics, 2005, 123, 016102.	1.2	2
115	Thermodynamic functions of water and ice confined to 2nm radius pores. Journal of Chemical Physics, 2005, 122, 104712.	1.2	78
116	Position-dependent energy of molecules in nano-confined water. Physical Chemistry Chemical Physics, 2005, 7, 3407.	1.3	13
117	State of water at 136 K determined by its relaxation time. Physical Chemistry Chemical Physics, 2005, 7, 1091.	1.3	24
118	Mechanisms for pressure- and time-dependent amorphization of ice under pressure. Physical Review B, 2004, 70, .	1.1	28
119	Spontaneous transformation of waterâ€™s high-density amorph and a two-stage crystallization to ice VI at 1 GPa: A dielectric study. Journal of Chemical Physics, 2004, 120, 11662-11671.	1.2	4
120	Waterâ€™s polyamorphic transitions and amorphization of ice under pressure. Journal of Chemical Physics, 2004, 120, 6207-6213.	1.2	53
121	Tests for thermodynamic state of waterâ€™s high-density amorph. Journal of Chemical Physics, 2004, 121, 8428.	1.2	7
122	An ice phase of lowest thermal conductivity. Journal of Chemical Physics, 2004, 120, 9612-9617.	1.2	14
123	Time-dependent amorphization of ice at 0.8â€“0.9 GPa. Journal of Chemical Physics, 2004, 121, 3936-3938.	1.2	15
124	Decrease in the configurational entropy during a meltâ€™s polymerization. Chemical Physics, 2004, 305, 231-236.	0.9	3
125	Structural Unfreezing and Endothermic Effects in Liquids,Î²-d-Fructose. Journal of Physical Chemistry B, 2004, 108, 16877-16882.	1.2	10
126	Dielectric Polarization and the Stages of a Macromolecule's Growth. Journal of Physical Chemistry B, 2004, 108, 15049-15056.	1.2	8

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127	Calorimetric Features of High-Enthalpy Amorphous Solids and Glass-Softening Temperature of Water. Journal of Physical Chemistry B, 2003, 107, 9063-9070.	1.2	53
128	Simple Ratio for Testing a Supercooled Liquid's Relaxation Timeâ^'Entropy Relation. Journal of Physical Chemistry B, 2003, 107, 5048-5051.	1.2	11
129	Stability of ice XII relative to ice V and ice VI at high pressures. Journal of Chemical Physics, 2003, 118, 242-248.	1.2	22
130	Waterâ€™s Tg-endotherm, sub-Tg peak of glasses and Tg of water. Journal of Chemical Physics, 2003, 119, 2935-2937.	1.2	46
131	Structural relaxation and configurational statistics of the orientational glass CuCN. Physical Review B, 2003, 68, .	1.1	9
132	Relaxation strength of localized motions in D-sorbitol and mimicry of glass-softening thermodynamics. Journal of Chemical Physics, 2003, 119, 435-442.	1.2	52
133	On the entropy equations for a liquidâ€™s relaxation time at high pressures. Journal of Chemical Physics, 2003, 119, 635-637.	1.2	17
134	A mechanism for spontaneous relaxation of glass at room temperature. Philosophical Magazine, 2003, 83, 3117-3132.	0.7	58
135	Chain statistics and the changes in the entropy and heat capacity during melt polymerization. Journal of Chemical Physics, 2002, 116, 2310-2322.	1.2	11
136	Localized relaxation in a glass and the minimum in its orientational polarization contribution. Journal of Chemical Physics, 2002, 117, 1714-1722.	1.2	35
137	Experimental evidence for the heat capacity maximum during a meltâ€™s polymerization. Journal of Chemical Physics, 2002, 117, 5086-5091.	1.2	16
138	CuCN:â€ƒAn orientational glass. Physical Review B, 2002, 65, .	1.1	14
139	Amorphous solid waterâ€™s isotopic exchange kinetics. Journal of Chemical Physics, 2002, 117, 2782-2789.	1.2	7
140	The entropy loss on supercooling a liquid and anharmonic contributions. Journal of Chemical Physics, 2002, 116, 2043-2046.	1.2	45
141	Effects of ions on the dielectric permittivity and relaxation rate and the decoupling of ionic diffusion from dielectric relaxation in supercooled liquid and glassy 1-propanol. Journal of Chemical Physics, 2002, 116, 4192-4201.	1.2	29
142	Spontaneous decrease in the heat capacity of a glass. Journal of Chemical Physics, 2002, 117, 8436-8441.	1.2	35
143	The gradual transition from mass-controlled to diffusion-controlled kinetics during melt polymerization. Journal of Chemical Physics, 2002, 117, 9897-9902.	1.2	15
144	The Endothermic Effects during Denaturation of Lysozyme by Temperature Modulated Calorimetry and an Intermediate Reaction Equilibrium. Journal of Physical Chemistry B, 2002, 106, 6081-6087.	1.2	62

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145	The heat capacity relaxation and the enthalpy decrease in mass and diffusion-controlled polymerization reaction kinetics. Physical Chemistry Chemical Physics, 2002, 4, 3415-3421.	1.3	15
146	Use of crystal polymorphs for resolving an equilibrium liquidâ€™s state on supercooling to 0 K. Journal of Chemical Physics, 2002, 116, 1744-1747.	1.2	7
147	Molecular inertial effects in liquids: Poley absorption, collision-induced absorption, low-frequency Raman spectrum and Boson peaks. Journal of Non-Crystalline Solids, 2002, 307-310, 114-127.	1.5	45
148	Localized molecular motions of Î²-relaxation and its energy landscape. Journal of Non-Crystalline Solids, 2002, 307-310, 317-325.	1.5	191
149	Decrease in the configurational and vibrational entropies on supercooling a liquid and their relations with the excess entropy. Journal of Non-Crystalline Solids, 2002, 307-310, 387-392.	1.5	42
150	Does water need a new Tg?. Journal of Chemical Physics, 2002, 116, 8067-8073.	1.2	65
151	Localized relaxationâ€™s strength and its mimicry of glass-softening thermodynamics. Journal of Chemical Physics, 2002, 116, 5908-5909.	1.2	58
152	The configurational entropy theory and the heat capacity decrease of orientationally disordered crystals on cooling to 0K. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 1935-1950.	0.6	8
153	Effects of sinusoidal temperature and pressure modulation on the structural relaxation of amorphous solids. Journal of Non-Crystalline Solids, 2001, 281, 91-107.	1.5	14
154	Examining the entropy theory's application to viscosity data and the inference for a thermodynamic transition in an equilibrium liquid. Journal of Non-Crystalline Solids, 2001, 288, 148-158.	1.5	22
155	Models of the currentâ€“voltage dependence of BaTiO3 with positive temperature coefficient of resistivity. Journal of Applied Physics, 2001, 89, 3939-3946.	1.1	23
156	The Tammann phase boundary, exothermic disordering and the entropy contribution change on phase transformation. Physical Chemistry Chemical Physics, 2001, 3, 2483-2487.	1.3	21
157	The Combined Effects of Temperature and Polymerization Rate Changes on the Real-Time Conduction and Relaxation of a Liquid, and the Evolution of Localized Motions. Journal of Physical Chemistry B, 2001, 105, 11035-11043.	1.2	10
158	On Extrapolating a Supercooled Liquid's Excess Entropy, the Vibrational Component, and Reinterpreting the Configurational Entropy Theory. Journal of Physical Chemistry B, 2001, 105, 3600-3604.	1.2	19
159	Mechanism of the Major Orientation Polarization in Alcohols, and the Effects of Steric Hindrance-, and Dilution-Induced Decrease on H-Bonding. Journal of Physical Chemistry A, 2001, 105, 5061-5070.	1.1	31
160	The dielectric relaxation time of ice V, its partial anti-ferroelectric ordering and the role of Bjerrum defects. Journal of Chemical Physics, 2001, 115, 3274-3280.	1.2	39
161	Heat capacity and entropy of an equilibrium liquid from Tg to 0 K, and examining the conjectures of an underlying thermodynamic transition. Chemical Physics, 2001, 265, 217-231.	0.9	22
162	Thermodynamic effects on phase transformation in heterogeneous solids, and pressure-amorphization of emulsified ice. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 323-330.	0.6	1

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163	Conductivity, proton percolation, and gelation during the network growth in a flexible chain diepoxide and diamine mixture. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 122-126.	2.4	16
164	Supercooled water's thermodynamic behaviour and a conflict between Arrhenius relaxation and configurational entropy. Journal of Molecular Structure, 2000, 520, 249-257.	1.8	15
165	On the origin of the heat capacity feature of annealed ices and ice clathrates, and interpreting waterâ€™s diffusivity in terms of the entropy. Chemical Physics, 2000, 258, 277-290.	0.9	29
166	Configurational and vibrational entropies and molecular relaxation in supercooled water. Journal of Chemical Physics, 2000, 112, 10957-10965.	1.2	17
167	An estimate for the Gibbs energy of amorphous solid waters and differences between the low-density amorph and glassy water. Journal of Chemical Physics, 2000, 112, 8573-8580.	1.2	33
168	An equilibrium supercooled liquidâ€™s entropy and enthalpy in the Kauzmann and the third law extrapolations, and a proposed experimental resolution. Journal of Chemical Physics, 2000, 113, 751-761.	1.2	84
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