

Gyan Johari

List of Publications by Year in descending order

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338
papers

11,393
citations

31902

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84
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342
all docs

342
docs citations

342
times ranked

4176
citing authors

#	ARTICLE	IF	CITATIONS
1	The glass-liquid transition of hyperquenched water. <i>Nature</i> , 1987, 330, 552-553.	13.7	724
2	GLASS TRANSITION AND SECONDARY RELAXATIONS IN MOLECULAR LIQUIDS AND CRYSTALS. <i>Annals of the New York Academy of Sciences</i> , 1976, 279, 117-140.	1.8	418
3	Class-liquid transition and the enthalpy of devitrification of annealed vapor-deposited amorphous solid water: a comparison with hyperquenched glassy water. <i>The Journal of Physical Chemistry</i> , 1989, 93, 4986-4990.	2.9	230
4	Localized molecular motions of β -relaxation and its energy landscape. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 317-325.	1.5	191
5	Molecular theory for the rheology of glasses and polymers. <i>Physical Review B</i> , 1989, 39, 2411-2422.	1.1	177
6	Dielectric properties of glycerol in the range 0.1-105 Hz, 218-357 K, 0-53 kb. <i>Faraday Symposia of the Chemical Society</i> , 1972, 6, 23-41.	0.5	169
7	The dielectric properties of ice Ih in the range 272-133 K. <i>Journal of Chemical Physics</i> , 1981, 75, 1333-1340.	1.2	159
8	Effect of annealing on the secondary relaxations in glasses. <i>Journal of Chemical Physics</i> , 1982, 77, 4619-4626.	1.2	148
9	Calorimetric studies of the kinetic unfreezing of molecular motions in hydrated lysozyme, hemoglobin, and myoglobin. <i>Biophysical Journal</i> , 1994, 66, 249-258.	0.2	128
10	Thermodynamic Continuity between Glassy and Normal Water. <i>The Journal of Physical Chemistry</i> , 1994, 98, 4719-4725.	2.9	121
11	A resolution for the enigma of a liquid's configurational entropy-molecular kinetics relation. <i>Journal of Chemical Physics</i> , 2000, 112, 8958-8969.	1.2	118
12	Contributions to the entropy of a glass and liquid, and the dielectric relaxation time. <i>Journal of Chemical Physics</i> , 2000, 112, 7518-7523.	1.2	110
13	X-ray study of high-density amorphous water. <i>Physical Review Letters</i> , 1986, 56, 460-463.	2.9	109
14	The heat capacity and glass transition of hyperquenched glassy water. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1989, 60, 179-187.	0.6	109
15	Two Calorimetrically Distinct States of Liquid Water Below 150 Kelvin. <i>Science</i> , 1996, 273, 90-92.	6.0	109
16	Crystallization kinetics of water below 150 K. <i>Journal of Chemical Physics</i> , 1994, 100, 2743-2747.	1.2	104
17	Study of the low-temperature β -transition in ice Ih by thermally stimulated depolarization measurements. <i>Journal of Chemical Physics</i> , 1975, 62, 4213-4223.	1.2	98
18	Glass-liquid transition of water and ethylene glycol solution in poly(2-hydroxyethyl methacrylate) hydrogel. <i>The Journal of Physical Chemistry</i> , 1990, 94, 2689-2696.	2.9	88

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19	On the amorphization of hexagonal ice, the nature of water's low-density amorph, and the continuity of molecular kinetics in supercooled water. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 1567-1577.	1.3	87
20	Relaxations of thermosets. III. Sub-Tg dielectric relaxations of bisphenol-A-based epoxide cured with different cross-linking agents. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990, 28, 71-83.	2.4	84
21	An equilibrium supercooled liquid's entropy and enthalpy in the Kauzmann and the third law extrapolations, and a proposed experimental resolution. <i>Journal of Chemical Physics</i> , 2000, 113, 751-761.	1.2	84
22	Dielectric Relaxation and Crystallization of Ultraviscous Melt and Glassy States of Aspirin, Ibuprofen, Progesterone, and Quinidine. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1159-1175.	1.6	80
23	Mechanical spectrometry of the .beta.-relaxation in poly(methyl methacrylate). <i>Macromolecules</i> , 1991, 24, 4713-4723.	2.2	79
24	Thermodynamic functions of water and ice confined to 2nm radius pores. <i>Journal of Chemical Physics</i> , 2005, 122, 104712.	1.2	78
25	Dielectric properties of ice VII and VIII and the phase boundary between ice VI and VII. <i>Journal of Chemical Physics</i> , 1974, 61, 4292-4300.	1.2	77
26	The Permittivity and Attenuation in Polycrystalline and Single-Crystal Ice Ih at 35 and 60 MHz. <i>Journal of Glaciology</i> , 1975, 14, 293-303.	1.1	77
27	Water's size-dependent freezing to cubic ice. <i>Journal of Chemical Physics</i> , 2005, 122, 194504.	1.2	76
28	Time-temperature superposition and dynamic mechanical behavior of atactic polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1987, 25, 1235-1251.	2.4	74
29	Molecular relaxations in a rigid molecular glassy crystal. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 6535-6545.	1.5	73
30	Structural Relaxation of Acetaminophen Glass. <i>Pharmaceutical Research</i> , 2006, 23, 967-979.	1.7	69
31	Dielectric and conductivity relaxations in poly(hema) and of water in its hydrogel. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990, 28, 675-689.	2.4	68
32	Isotope effect on the glass transition and crystallization of hyperquenched glassy water. <i>Journal of Chemical Physics</i> , 1990, 92, 6742-6746.	1.2	68
33	On the heat capacity, entropy and α -glass transition of vitreous ice. <i>Philosophical Magazine and Journal</i> , 1977, 35, 1077-1090.	1.8	67
34	Dielectric Studies of Molecular Motions in Amorphous Solid and Ultraviscous Acetaminophen. <i>Journal of Pharmaceutical Sciences</i> , 2005, 94, 2207-2223.	1.6	67
35	Liquid State of Low-Density Pressure-Amorphized Ice above Its Tg. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4711-4714.	1.2	66
36	Relaxations in thermosets. 7. Dielectric effects during the curing and postcuring of an epoxide by mixed amines. <i>Macromolecules</i> , 1990, 23, 3687-3695.	2.2	65

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37	Kinetics of crystallizing D2O water near 150 K by Fourier transform infrared spectroscopy and a comparison with the corresponding calorimetric studies on H2O water. <i>Journal of Chemical Physics</i> , 1995, 103, 545-550.	1.2	65
38	Does water need a new Tg?. <i>Journal of Chemical Physics</i> , 2002, 116, 8067-8073.	1.2	65
39	Relaxations in thermosets. VI. Effects of crosslinking on sub-Tg relaxations during the curing and aging of epoxide-based thermosets. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991, 29, 437-449.	2.4	64
40	Glass transition in pressure-amorphized hexagonal ice: a comparison with amorphous forms made from the vapor and liquid. <i>The Journal of Physical Chemistry</i> , 1989, 93, 7751-7752.	2.9	63
41	Water's character from dielectric relaxation above its Tg. <i>Journal of Chemical Physics</i> , 1996, 105, 7079-7082.	1.2	62
42	The Endothermic Effects during Denaturation of Lysozyme by Temperature Modulated Calorimetry and an Intermediate Reaction Equilibrium. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6081-6087.	1.2	62
43	Dielectric properties of ice VI at low temperatures. <i>Journal of Chemical Physics</i> , 1976, 64, 4484-4489.	1.2	61
44	Relaxations of thermosets. IV. A dielectric study of crosslinking of diglycidyl ether of bisphenol-a by two curing agents. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990, 28, 1621-1639.	2.4	60
45	The dielectric behavior of vapor-deposited amorphous solid water and of its crystalline forms. <i>Journal of Chemical Physics</i> , 1991, 95, 2955-2964.	1.2	60
46	X-ray and neutron scattering studies of the structure of water in a hydrogel. <i>Chemical Physics Letters</i> , 1992, 188, 113-118.	1.2	58
47	Localized relaxation's strength and its mimicry of glass-softening thermodynamics. <i>Journal of Chemical Physics</i> , 2002, 116, 5908-5909.	1.2	58
48	A mechanism for spontaneous relaxation of glass at room temperature. <i>Philosophical Magazine</i> , 2003, 83, 3117-3132.	0.7	58
49	Effects of electric field on the entropy, viscosity, relaxation time, and glass-formation. <i>Journal of Chemical Physics</i> , 2013, 138, 154503.	1.2	58
50	The Permittivity and Attenuation in Polycrystalline and Single-Crystal Ice Ih at 35 and 60 MHz. <i>Journal of Glaciology</i> , 1975, 14, 293-303.	1.1	55
51	Calorimetric study of pressure-amorphized cubic ice. <i>The Journal of Physical Chemistry</i> , 1990, 94, 1212-1214.	2.9	55
52	On the coexistence of cubic and hexagonal ice between 160 and 240 K. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 78, 375-383.	0.6	55
53	Dielectric relaxations in a supercooled liquid and glassy smectic phase. <i>Journal of Chemical Physics</i> , 1982, 77, 5165-5172.	1.2	53
54	Relaxations in thermosets. XVIII. Ultrasonic studies of curing kinetics of ethylene-diamine-cured epoxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1992, 30, 791-799.	2.4	53

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55	Calorimetric Features of High-Enthalpy Amorphous Solids and Glass-Softening Temperature of Water. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9063-9070.	1.2	53
56	Water's polyamorphic transitions and amorphization of ice under pressure. <i>Journal of Chemical Physics</i> , 2004, 120, 6207-6213.	1.2	53
57	The dielectric properties of H ₂ O and D ₂ O ice Ih at MHz frequencies. <i>Journal of Chemical Physics</i> , 1976, 64, 3998-4005.	1.2	52
58	Calorimetric and Dielectric Investigations of the Phase Transformations and Glass Transition of Triphenyl Phosphite. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10191-10197.	1.2	52
59	Relaxation strength of localized motions in D-sorbitol and mimicry of glass-softening thermodynamics. <i>Journal of Chemical Physics</i> , 2003, 119, 435-442.	1.2	52
60	Dynamic mechanical spectrometry of nylon-12. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990, 28, 2691-2705.	2.4	51
61	On Poisson's ratio of glass and liquid vitrification characteristics. <i>Philosophical Magazine</i> , 2006, 86, 1567-1579.	0.7	51
62	Enthalpy relaxation of glassy water. <i>Journal of Chemical Physics</i> , 1990, 92, 809-810.	1.2	50
63	The dielectric properties of dry and water-saturated nylon-12. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1992, 30, 341-348.	2.4	50
64	Enthalpy, Entropy, and Structural Relaxation Behaviors of A- and B-DNA in Their Vitrified States and the Effect of Water on the Dynamics of B-DNA. <i>Journal of Physical Chemistry B</i> , 1997, 101, 266-277.	1.2	50
65	Vibrational and relaxational properties of crystalline and amorphous ices. <i>Thermochimica Acta</i> , 2007, 461, 14-43.	1.2	50
66	Relaxations in thermosets. IX. Ionic conductivity and gelation of DGEBA-based thermosets cured with pure and mixed amines. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991, 29, 1117-1125.	2.4	49
67	Calorimetric studies of structural relaxation in AgI—AgPO ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 1994, 171, 182-190.	1.5	49
68	Evidence for a very slow transformation in ice VI at low temperatures. <i>Journal of Chemical Physics</i> , 1979, 70, 2094-2097.	1.2	47
69	Dielectric relaxation spectroscopy of reaction-controlled slowing of molecular diffusion in liquids. <i>Journal of Chemical Physics</i> , 1992, 97, 6677-6686.	1.2	47
70	Dielectric spectroscopy of a polymerizing liquid and the evolution of molecular dynamics with increase in the number of covalent bonds. <i>Journal of Chemical Physics</i> , 1995, 103, 440-450.	1.2	47
71	Calorimetric relaxation and glass transition in poly(propylene glycols) and its monomer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1988, 26, 1923-1930.	2.4	46
72	Relaxations in thermosets. 23. Dielectric studies of curing kinetics of an epoxide with diamines of varying chain lengths. <i>Macromolecules</i> , 1992, 25, 3254-3265.	2.2	46

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73	Water's T _g -endotherm, sub-T _g peak of glasses and T _g of water. Journal of Chemical Physics, 2003, 119, 2935-2937.	1.2	46
74	On the excess entropy of disordered solids. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1980, 41, 41-47.	0.6	45
75	Glass-liquid transition in hyperquenched metal alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 299-310.	0.6	45
76	The entropy loss on supercooling a liquid and anharmonic contributions. Journal of Chemical Physics, 2002, 116, 2043-2046.	1.2	45
77	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
78	Intergranular liquid in solids and premelting of ice. Journal of Chemical Physics, 1994, 100, 4548-4553.	1.2	43
79	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
80	Characterizing amorphous and microcrystalline solids by calorimetry. Journal of Non-Crystalline Solids, 1990, 116, 282-285.	1.5	42
81	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
82	Effect of pressure on the Raman spectrum of ice. Nature, 1978, 275, 524-525.	13.7	41
83	Dynamics of a molecule's growth: Ultrasonic relaxation studies. Journal of Chemical Physics, 1995, 102, 6301-6307.	1.2	41
84	Specific heat relaxation during macromolecule growth. Physical Review E, 1996, 54, R1058-R1061.	0.8	41
85	Structural Relaxation of a Vitrified High-Protein Food, Beef, and the Phase Transformations of Its Water Content. The Journal of Physical Chemistry, 1996, 100, 10450-10463.	2.9	41
86	Physical aspects of network polymerization from calorimetry and dielectric spectroscopy of a triepoxide reacting with different monoamines. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 437-456.	2.4	41
87	Relaxations in thermosets. XVI. Dielectric studies of negative feedback during curing of an epoxide-ethylene-diamine thermoset. Journal of Polymer Science, Part B: Polymer Physics, 1992, 30, 655-667.	2.4	40
88	Thermal history and enthalpy relaxation of an interpenetrating network polymer with exceptionally broad relaxation time distribution. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 683-689.	2.4	40
89	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
90	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

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91	Calorimetric Relaxation in Pharmaceutical Molecular Glasses and Its Utility in Understanding Their Stability Against Crystallization. <i>Journal of Physical Chemistry B</i> , 2008, 112, 10806-10814.	1.2	39
92	Glass transition and molecular motions in the glassy state of a nematic liquid. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1982, 46, 549-564.	0.6	38
93	Dynamic shear measurements of physical ageing and the memory effect in a polymer glass. <i>Polymer</i> , 1986, 27, 686-692.	1.8	38
94	A study of amorphization of crystalline $\text{Ag}_{0.5}\text{Cu}_{0.5}$ during ball-milling. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1988, 58, 445-454.	0.6	38
95	Vitrified dilute aqueous solutions. 3. Plasticization of water's hydrogen-bonded network and the glass transition temperature's minimum. <i>The Journal of Physical Chemistry</i> , 1989, 93, 4674-4677.	2.9	38
96	Calorimetric effects of intergranular water in ice. <i>Journal of Chemical Physics</i> , 1995, 102, 4987-4990.	1.2	38
97	Configurational and residual entropies of nonergodic crystals and the entropy's behavior on glass formation. <i>Journal of Chemical Physics</i> , 2010, 132, 124509.	1.2	38
98	Calorimetric determination of vitrification time and heat capacity of a thermosetting polymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993, 31, 199-205.	2.4	37
99	Relaxations in thermosets. XIX. Dielectric effects during curing of diglycidyl ether of bisphenol-A with a catalyst and the properties of the thermoset. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993, 31, 299-311.	2.4	37
100	Kinetics and Thermodynamics of Sucrose Hydrolysis from Real-Time Enthalpy and Heat Capacity Measurements. <i>Journal of Physical Chemistry B</i> , 2007, 111, 496-501.	1.2	36
101	Localized relaxation in a glass and the minimum in its orientational polarization contribution. <i>Journal of Chemical Physics</i> , 2002, 117, 1714-1722.	1.2	35
102	Spontaneous decrease in the heat capacity of a glass. <i>Journal of Chemical Physics</i> , 2002, 117, 8436-8441.	1.2	35
103	On the glassy and supercooled liquid states of a common medicament: Aspirin. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 5479-5484.	1.3	34
104	Dielectric relaxation time of bulk water at 136–140K, background loss and crystallization effects. <i>Journal of Chemical Physics</i> , 2005, 122, 144508.	1.2	34
105	An estimate for the Gibbs energy of amorphous solid waters and differences between the low-density amorph and glassy water. <i>Journal of Chemical Physics</i> , 2000, 112, 8573-8580.	1.2	33
106	Dynamic Heat Capacity and Relaxation Time of Ultraviscous Melt and Glassy Acetaminophen. <i>Journal of Pharmaceutical Sciences</i> , 2006, 95, 1006-1021.	1.6	33
107	The effect of increased crystallization on the electrical properties of nylon-12. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993, 31, 265-271.	2.4	32
108	Vitrification and structural relaxation of a water-swollen protein, wheat gluten and the thermodynamics of its water-protein ice equilibrium. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 4521-4531.	1.7	32

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109	Kinetics of spontaneous change in the localized motions of D-sorbitol glass. Journal of Chemical Physics, 2006, 124, 074509.	1.2	32
110	Dipolar and conductivity relaxations in LiClâ€“propylene glycol systems. Journal of Chemical Physics, 1991, 95, 5990-5998.	1.2	31
111	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
112	On the nonlinear variation of dc conductivity with dielectric relaxation time. Journal of Chemical Physics, 2006, 125, 124501.	1.2	31
113	Memory effect in enthalpy relaxation of two metalâ€“alloy glasses. Journal of Non-Crystalline Solids, 2007, 353, 3796-3811.	1.5	30
114	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
115	A defect theory for the glass transition and residual entropy of hyperquenched water. Journal of Chemical Physics, 1993, 98, 7324-7329.	1.2	29
116	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
117	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
118	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
119	Source of JG-Relaxation in the Entropy of Glass. Journal of Physical Chemistry B, 2019, 123, 3010-3023.	1.2	29
120	Mechanical relaxation in an ionic glass. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1984, 50, 657-663.	0.6	28
121	Vitrified dilute aqueous solutions. 4. Effects of electrolytes and polyhydric alcohols on the glass transition features of hyperquenched aqueous solutions. The Journal of Physical Chemistry, 1991, 95, 10777-10781.	2.9	28
122	Localized relaxations in the glassy states of several molecular materials before and after their polymerization. Journal of Chemical Physics, 1995, 103, 7611-7617.	1.2	28
123	The Gibbsâ€“Thomson effect and intergranular melting in ice emulsions: Interpreting the anomalous heat capacity and volume of supercooled water. Journal of Chemical Physics, 1997, 107, 10154-10165.	1.2	28
124	Mechanisms for pressure- and time-dependent amorphization of ice under pressure. Physical Review B, 2004, 70, .	1.1	28
125	Endothermic freezing on heating and exothermic melting on cooling. Journal of Chemical Physics, 2005, 123, 051104.	1.2	28
126	Isotope and impurity effects on the glass transition and crystallization of pressureâ€“amorphized hexagonal and cubic ice. Journal of Chemical Physics, 1991, 95, 6849-6855.	1.2	27

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127	Effects of sub-Tg annealings on the anelastic relaxation in poly(methyl methacrylate). <i>Macromolecules</i> , 1992, 25, 5108-5110.	2.2	27
128	Enthalpy recovery on thermal cycling within the non-equilibrium state of a glass. <i>Journal of Non-Crystalline Solids</i> , 2000, 261, 52-66.	1.5	27
129	The temperature and polymerization effects on the relaxation time and conductivity, and the evolution of the localized motions. <i>Journal of Chemical Physics</i> , 2000, 113, 6957-6965.	1.2	27
130	Poisson's ratio and liquid's fragility. <i>Nature</i> , 2006, 442, E7-E8.	13.7	27
131	Vibrational and configurational specific heats during isothermal structural relaxation of a glass to equilibrium liquid. <i>Physical Review B</i> , 2008, 78, .	1.1	27
132	Dielectric Study of Equimolar Acetaminophen-Aspirin, Acetaminophen-Quinidine, and Benzoic Acid-Progesterone Molecular Alloys in the Glass and Ultraviscous States and Their Relevance to Solubility and Stability. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 1358-1374.	1.6	27
133	A dielectric study of secondary relaxations and the "memory effect" in two compatible polystyrene blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1986, 24, 1587-1595.	2.4	26
134	Dynamic mechanical behavior of poly(vinyl-methyl ether)-poly(styrene) blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1987, 25, 1847-1858.	2.4	26
135	Dielectric study of the structure of hyperquenched glassy water and its crystallized forms. <i>Journal of Chemical Physics</i> , 1992, 97, 5851-5855.	1.2	26
136	Phase transition and entropy of amorphous ices. <i>Journal of Chemical Physics</i> , 1995, 102, 6224-6229.	1.2	26
137	The effects of pressure and temperature on molecular dynamics during linear-chain polymerization by dielectric measurements. <i>Journal of Chemical Physics</i> , 1996, 105, 10621-10631.	1.2	26
138	Chemical metastability loss and molecular dynamics by dielectric relaxations during the catalytic polymerization of a diepoxide. <i>Chemical Physics</i> , 1997, 223, 313-322.	0.9	26
139	Change in the vibrational properties of bulk metal glass with time. <i>Physical Review B</i> , 2006, 73, .	1.1	26
140	Relaxations and nano-phase-separation in ultraviscous heptanol-alkyl halide mixture. <i>Journal of Chemical Physics</i> , 2007, 126, 034512.	1.2	26
141	Transformation of an ice clathrate and hexagonal ice on compression at 77 K. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1986, 54, 311-315.	0.6	25
142	Relaxations in thermosets. XXVI. Ultrasonic studies of the temperature dependence of curing kinetics of diglycidyl ether of bisphenol-A with catalyst. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 1465-1474.	2.4	25
143	The effects of covalent bonds on the localized relaxations in the glassy states of linear chain and network macromolecules. <i>Journal of Chemical Physics</i> , 1996, 104, 5683-5689.	1.2	25
144	Specific Heat, Melting, Crystallization, and Oxidation of Zinc Nanoparticles and Their Transmission Electron Microscopy Studies. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20159-20166.	1.5	25

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145	Dynamic and apparent specific heats during transformation of water in partly filled nanopores during slow cooling to 110K and heating. <i>Thermochimica Acta</i> , 2009, 492, 37-44.	1.2	25
146	Enthalpy and entropy changes on structural relaxation of Mg ₆₅ Cu ₂₅ Tb ₁₀ glass. <i>Thermochimica Acta</i> , 2010, 503-504, 121-131.	1.2	25
147	Dielectric behaviour of H-bonded liquids and amorphous and crystalline solids. <i>Journal of Molecular Structure</i> , 1991, 250, 351-384.	1.8	24
148	An interpretation for the thermodynamic features of ice I _h →ice XI transformation. <i>Journal of Chemical Physics</i> , 1998, 109, 9543-9548.	1.2	24
149	Physico-chemical aspects of dielectric and thermodynamic changes during high-temperature polymerization and their technical use. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2997-3005.	1.3	24
150	State of water at 136 K determined by its relaxation time. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1091.	1.3	24
151	Fictive Temperature, Structural Relaxation, and Reality of Residual Entropy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9578-9585.	1.2	24
152	Dielectric and calorimetric studies of .beta.-cyclodextrin undecahydrate. <i>The Journal of Physical Chemistry</i> , 1989, 93, 7491-7494.	2.9	23
153	Structural Relaxation and H Bonding in Isomeric Octanols and Their LiCl Solutions by Calorimetry. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6801-6807.	2.9	23
154	Thermodynamics of water-cubic ice and other liquid-solid coexistence in nanometer-size particles. <i>Journal of Chemical Physics</i> , 1998, 109, 1070-1073.	1.2	23
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