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1296	Kinetics of Organic Reactions in Water and Aqueous Mixtures. 1977 , 14, 203-352		8
1295	The equation of state of pure water determined from sound speeds. 1977 , 66, 2142-2144		135
1294	Relative sound velocities of sea salts at 25°C. 1977 , 61, 1492-1498		116
1293	Effects of isotopic composition, temperature, pressure, and dissolved gases on the density of liquid water. 1977 , 6, 1109-1131		155
1292	Compressions of some alcohols and their aqueous binary mixtures at 298.15 K and at pressures up to 1400 atm. 1977 , 9, 587-592		33
1291	The use and misuse of pure water PVT properties for lake waters. 1977 , 266, 707-708		76
1290	Dichten und scheinbare Molvolumina wässriger Lösungen von Calciumnitrat und Calciumchlorid. 1977 , 435, 298-300		1
1289	The partial molal volume and compressibility change for the formation of the calcium sulfate ion pair at 25°C. 1977 , 6, 269-280		24
1288	A near-infrared study of the hydration of various ions and nonelectrolytes. 1977 , 6, 403-428		47

1287	Physical properties of the solvent mixtures triethylphosphate+hexamethylphosphoric triamide at 25°C. 1978 , 7, 317-324	21
1286	Heat capacities and compressibilities of deuterium oxide-water mixtures at 298.15 K. 1978 , 25, 379-382	3
1285	The PVT properties of water, IV. Liquid water in the range 150-350 °C, from saturation to 1 kbar. 1978 , 360, 389-402	26
1284	Experimental Investigation of the Effect of Pressure on the Viscosity of Water in the Temperature Range 10-50°C. 1978 , 82, 180-188	38
1283	Direct continuous measurements of thermal expansion coefficients of liquids and solids using flow microcalorimetry. 1979 , 50, 1474	12
1282	The mutual diffusion coefficients of NaCl-H ₂ O and CaCl ₂ -H ₂ O at 25°C from Rayleigh interferometry. 1979 , 8, 701-716	82
1281	The mutual diffusion coefficients of Na ₂ SO ₄ -H ₂ O and MgSO ₄ -H ₂ O at 25°C from Rayleigh interferometry. 1979 , 8, 755-766	49
1280	The structure of binary liquids. The Kirkwood-Buff theory of liquid mixtures, illustrated on the basis of the systems water/methanol, water/ethanol, and cyclohexane/2,3-dimethylbutane, as a link between thermodynamic data and x-ray and neutron scattering results. 1979 , 8, 293-307	53
1279	Ionization of aqueous benzoic acid: Conductance and thermodynamics. 1979 , 8, 329-345	22
1278	Adiabatic and isothermal apparent molal compressibilities of organic compounds in water. I. Cyclic and open-chain secondary alcohols and ethers. 1979 , 8, 11-23	39
1277	Low-frequency sound velocity and related thermodynamic properties in supercooled water. 1979 , 51, 304-312	4
1276	Apparent Molal Isochoric Heat Capacities of Electrolytes and Non-electrolytes in Aqueous Solution at 25 °C. 1979 , 115, 121-124	6
1275	The Viscosity of CaCl ₂ Solutions in the Range 20-50°C. 1979 , 83, 24-27	14
1274	Beziehungen zwischen der Kompressibilität und der Druckabhängigkeit der Dielektrizitätskonstante. Wasser-Acetonitril-Mischungen bei 25°C und Drücken bis 850 bar. 1979 , 83, 623-627	17
1273	Sound Velocity, Density, and Compressibility in Solutions of Hexamethylphosphoric Triamide in H ₂ O and D ₂ O. 1980 , 53, 1888-1891	12
1272	Ionization of aqueous toluic acids: Conductance and thermodynamics. 1980 , 9, 109-128	13
1271	Thermodynamics of aqueous mixtures of nonelectrolytes II. Isobaric heat capacities of water-n-alcohol mixtures at 25°C. 1980 , 9, 931-938	79
1270	The volume and compressibility change for the formation of transition metal sulfate ion pairs at 25°C. 1980 , 9, 163-181	19

1269	Volumetric behavior of poly(L-lysine HBr) in aqueous alcohol solutions. 1980 , 12, 41-46	4
1268	Thermodynamics of micelle formation: Standard states, temperature dependence of the critical micelle concentration, and thermal expansion of the solvent. 1980 , 78, 191-194	7
1267	Brillouin scattering in superheated water. 1980 , 73, 622-625	15
1266	Density of standard seawater solutions at atmospheric pressure. 1980 , 27, 1013-1028	22
1265	A new high pressure equation of state for seawater. 1980 , 27, 255-264	177
1264	Thermodynamics of aqueous mixtures of nonelectrolytes. V. Isobaric heat capacities and ultrasonic speeds for water + ethanenitrile mixtures at 25°C. 1981 , 46, 295-301	32
1263	Ionization of aqueous dimethylbenzoic acids: Conductance and thermodynamics. 1981 , 10, 811-830	8
1262	Relative partial molar enthalpies and apparent molar volumes of dipeptides in aqueous solution. 1981 , 10, 321-331	31
1261	Correct calculation of ΔH° , ΔG° , and ΔS° from temperature and pressure dependences of equilibrium constants: The importance of thermal expansion and compressibility of the solvent. 1981 , 50, 69-72	41
1260	Excess volumes and excess heat capacities of water + ethanol at 298.15 K. 1981 , 6, 283-287	43
1259	Excess volumes and excess heat capacities of (water + alkanoic acid). 1981 , 13, 241-248	25
1258	Compressions of water + t-butanol mixtures at 298.15 K and pressures up to 142 MPa. 1981 , 13, 171-178	18
1257	Heterophase fluctuations and thermodynamic properties in supercooled water. 1981 , 61, 123-140	11
1256	Sound propagation in moderately supercooled liquids. A comparison with water. 1981 , 75, 921-928	9
1255	Thermodynamics of (1-Chloronaphthalene + n-Alkane): Excess Enthalpies, Excess Volumes and Excess Heat Capacities. 1981 , 85, 768-772	65
1254	The thermodynamic properties. 1982 , 11-58	0
1253	Solubility of Gases in Liquids. 15. High-Precision Determination of Henry Coefficients for Carbon Monoxide in Liquid Water at 278 to 323 K. 1982 , 86, 1128-1132	37
1252	Apparent Molar Volumes of Water in Methanol and Tetrahydrofuran at 298.15 K. 1982 , 55, 1641-1642	16

1251	Revised TIPS for simulations of liquid water and aqueous solutions. 1982 , 77, 4156-4163	456
1250	Analysis of sound velocity in supercooled H ₂ O, D ₂ O, and water-ethanol mixtures. 1982 , 76, 3747-3753	65
1249	Surface tension of a two-component liquid mixture near its critical solution point. 1982 , 77, 5771-5783	40
1248	Physico-chemical study of Dead Sea waters: II. Density measurements and equation of state of Dead Sea waters at 1 atm. 1982 , 11, 477-492	33
1247	Anomalies of Liquid Water. 1982 , 21, 315-329	122
1246	Thermochemical behaviour of mixtures of n-alcohol + aliphatic ether: heat capacities and volumes at 298.15 K. 1982 , 52, 279-283	50
1245	Densities of dilute solutions of water in benzene and in methanol at 278.15, 288.15, 298.15, 308.15, and 318.15 K. Partial molar volumes V_w and values of ρ for water in benzene and in methanol. 1982 , 14, 269-274	41
1244	Molar excess volumes and excess heat capacities of (1,2,4-trichlorobenzene + an n-alkane). 1982 , 14, 303-308	28
1243	Excess volumes and excess heat capacities of tetrachloroethene + cyclohexane, + methylcyclohexane, + benzene, and + toluene at 298.15 K. 1982 , 14, 523-529	17
1242	The (p, V, T) properties of concentrated aqueous electrolytes I. Densities and apparent molar volumes of NaCl, Na ₂ SO ₄ , MgCl ₂ , and MgSO ₄ solutions from 0.1 mol/kg to saturation and from 273.15 to 323.15 K. 1982 , 14, 649-662	121
1241	The density of Red Sea brines. 1982 , 11, 463-475	18
1240	PVT properties of concentrated aqueous electrolytes. II. Compressibilities and apparent molar compressibilities of aqueous NaCl, Na ₂ SO ₄ , MgCl ₂ , and MgSO ₄ from dilute solution to saturation and from 0 to 50°C. 1982 , 11, 671-686	37
1239	Simultaneous flow measurement of specific heats and thermal expansion coefficients of liquids: Aqueous-BuOH mixtures and neat alkanols and alkanediols at 25°C. 1982 , 11, 755-776	32
1238	Ionization of five aqueous fluorobenzoic acids: Conductance and thermodynamics. 1982 , 11, 237-258	13
1237	A statistical thermodynamic model for water near solid interfaces. 1983 , 92, 43-56	56
1236	Analyses of excess molar volumes of the acetonitrile-water system using segmented composition models. 1983 , 71, 59-78	16
1235	Densities and compressibilities of aqueous sodium carbonate and bicarbonate from 0 to 45°C. 1983 , 12, 233-254	30
1234	Towards the extension of UNIFAC to mixtures with electrolytes. 1983 , 13, 297-309	43

1233	Partial Molal Volumes and Volume Changes for Complex Formation of $[M(\text{phen})_3]\text{Cl}_2$ in Aqueous Solutions. 1983 , 56, 1978-1981	14
1232	Refringency laws and optical properties of water at various temperatures. I. 1984 , 17, 3493-3506	
1231	Refringency laws and optical properties of water at various temperatures. II. Macroscopic approach. 1984 , 17, 3507-3517	5
1230	Densimetry in compressed fluids by combining hydrostatic weighing and magnetic levitation. 1984 , 55, 1132-1142	23
1229	Excess volumes and excess heat capacities of some mixtures: (an isomer of hexanol + an n-alkane) at 298.15 K. 1984 , 16, 73-79	58
1228	An interference refractometer to measure the pressure and temperature dependence of the refractive index of liquids. 1984 , 40, 785-788	3
1227	Densities and compressibilities of aqueous HCl and NaOH from 0 to 45°C. The effect of pressure on the ionization of water. 1984 , 13, 825-848	40
1226	Solubility of gases in liquids. XVI. Henry's law coefficients for nitrogen in water at 5 to 50°C. 1984 , 13, 335-348	49
1225	Spectral Analysis of Acoustic Property from $V(z)$ Curves Measured by the Line-Focus-Beam Acoustic Microscope. 1984 ,	1
1224	Shear viscosity through the consolute point for three binary liquid mixtures. 1984 , 53, 897-916	20
1223	Comparison of models describing the thermal lens effect. 1984 , 23, 476	110
1222	Density and Susceptibility Measurements on a Micellar Nematic System. 1984 , 108, 309-316	28
1221	The pvt properties of water v^* . the fluid to 1 kbar at 350-500 °c and along the saturation line from 150 to 350 °c. 1985 , 315, 235-246	13
1220	Thermodynamic properties of the ethylammonium nitrate + water system: Partial molar volumes, heat capacities, and expansivities. 1985 , 14, 549-560	59
1219	PVT properties of concentrated aqueous electrolytes. III. Volume changes for mixing the major sea salts at $I=1.0$ and 3.0 at 25°C. 1985 , 14, 837-851	24
1218	The PVT properties of concentrated aqueous electrolytes. IV. Changes in the compressibilities of mixing the major sea salts at 25°C. 1985 , 14, 853-864	12
1217	PVT properties of liquids and liquid mixtures: a review of the experimental methods and the literature data. 1985 , 19, 33-149	42
1216	Excess thermodynamic quantities in binary systems of non electrolytes. II. calculation-application to water-acetonitrile mixtures. 1985 , 22, 289-319	31

1215	Isobaric thermal expansion coefficients for water over large temperature and pressure ranges. 1985 , 12, 465-478	6
1214	(p, Vm, T, x) measurements for [(1-x)H ₂ O+xCH ₃ OH] in the range 278 to 323 K and 0.1 to 280 MPa I. Experimental results, isothermal compressibilities, thermal expansivities, and partial molar volumes. 1985 , 17, 49-62	70
1213	Thermodynamic properties of (a xylene + an n-alkanol) III. Excess molar volumes at 298.15 K for 1-hexanol, 1-heptanol, and 1-octanol. 1985 , 17, 817-821	12
1212	Excess volumes of (benzene + each of several isomers of hexanol) at 298.15 K. 1985 , 17, 321-324	7
1211	Volumetric properties of organic liquids as a function of temperature and pressure: Experimental data and prediction of compressibility. 1985 , 12, 37-97	14
1210	Material Characterization by Line-Focus-Beam Acoustic Microscope. 1985 , 32, 189-212	411
1209	Temperature and size dependence for Monte Carlo simulations of TIP4P water. 1985 , 56, 1381-1392	630
1208	A study of the structure of water and its dependence on solutes, based on the isotope effects on solvation thermodynamics in water. 1985 , 83, 4744-4759	89
1207	Physical properties of seawater: A new salinity scale and equation of state for seawater. 1985 , 90, 3332	231
1206	Testing the Lorentz-Lorenz relation in the near-critical binary fluid mixture isobutyric acid and water. 1986 , 85, 3985-3991	44
1205	Excess molar volumes of (ethyl formate + each of several alkanols) at 298.15 K. 1986 , 18, 403-406	14
1204	Calorimetric determinations of the compositions, enthalpies of dissociation, and heat capacities in the range 85 to 270 K for clathrate hydrates of xenon and krypton. 1986 , 18, 891-902	163
1203	Compositions, enthalpies of dissociation, and heat capacities in the range 85 to 270 K for clathrate hydrates of methane, ethane, and propane, and enthalpy of dissociation of isobutane hydrate, as determined by a heat-flow calorimeter. 1986 , 18, 915-921	275
1202	PVT properties of concentrated aqueous electrolytes: V. Densities and apparent molal volumes of the four major sea salts from dilute solution to saturation and from 0 to 100°C. 1986 , 15, 989-1002	74
1201	Excess volumes of the binary mixtures of cyclohexane with isomers of hexanol at 25°C. 1986 , 15, 433-438	3
1200	EXPERIMENTAL MEASUREMENTS OF ISOBARIC THERMAL EXPANSION COEFFICIENTS OF NON-NEWTONIAN FLUIDS. 1987 , 1, 155-163	6
1199	Partial Molar Volumes in Aqueous Mixtures of Nonelectrolytes. I.t-Butyl Alcohol. 1987 , 60, 1-7	62
1198	Osmotic and activity coefficients of aqueous lanthanum(III) nitrate and densities and apparent molal volumes of aqueous europium(III) nitrate at 25.degree.C. <i>Journal of Chemical & Engineering Data</i> , 1987 , 32, 92-98	2.8 40

1197	Limiting partial molar volumes at 298.15 K of some open chain and cyclic organic compounds in 1-octanol. 1987 , 32, 195-203	15
1196	The PVT properties of concentrated aqueous electrolytes. VIII. The volume changes for mixing the major sea salts at an ionic strength of 3.0 from 5 to 95°C. 1987 , 16, 491-502	16
1195	Aqueous iodic acid: Conductance and thermodynamics. 1987 , 16, 841-855	13
1194	Apparent molar volumes of alkaline earth hexacyanocobaltates (III) in aqueous solution at 25°C. 1987 , 16, 699-714	19
1193	Review of electrolytic conductance standards. 1987 , 16, 985-997	34
1192	PVT properties of concentrated electrolytes. VI. The speed of sound and apparent molal compressibilities of NaCl, Na ₂ SO ₄ , MgCl ₂ , and MgSO ₄ solutions from 0 to 100°C. 1987 , 16, 269-284	64
1191	Thermodynamics of the ionization of four difluorobenzoic and pentafluorobenzoic acids in water. 1987 , 16, 105-124	12
1190	Excess properties of mixtures of some n-alkoxyethanols with organic solvents II. VmE and Cp,mE with di-n-butylether at 298.15 K. 1987 , 19, 791-796	52
1189	Hydrodynamic states in water below the temperature of the density maximum: The limit to supercooling. 1988 , 145, 242-246	2
1188	Mixtures of 1-1 electrolytes: Densities and excess volumes of aqueous NaCl-NaBr solutions at 25°C. 1988 , 119, 1201-1206	3
1187	Aqueous solubilities of praseodymium, europium, and lutetium sulfates. 1988 , 17, 499-517	24
1186	Dimerization of some substituted benzoic acids in aqueous solution from conductance measurements. 1988 , 17, 1145-1167	18
1185	Partial molar volumes in aqueous mixtures of nonelectrolytes. II. Isopropyl alcohol. 1988 , 17, 267-275	55
1184	(p, Vm, T, x) measurements for {(1 - x)H ₂ O + xCH ₃ CN} in the range 278 to 323 K and 0.1 to 280 MPa I. Experimental results, isothermal compressibilities, isobaric expansivities, and partial molar volumes. 1988 , 20, 693-699	35
1183	Accurate measurements of the viscosity of water in the temperature range 19.5-25.5°C. 1988 , 151, 246-280	28
1182	Apparent molal volumes and heat capacities of aqueous hydrogen chloride and perchloric acid at 15-55.degree.C. <i>Journal of Chemical & Engineering Data</i> , 1988 , 33, 495-499	2.8 18
1181	Rapid determination of egg weight and specific gravity using a computerized data collection system. 1988 , 67, 902-7	68
1180	Continuum Description of the Dynamics and Thermodynamics of Phase Boundaries Between Ice and Water, Part III. Thermostatistics and its Consequences. 1988 , 13,	5

1179	Compressing Polymer Brushes—a Quantitative Comparison of Theory and Experiment. 1988 , 7, 695-699	147
1178	The Molar Volume and Refractivity of Concentrated Electrolyte Solutions in Dimethylsulphoxide. 1988 , 159, 203-217	
1177	Forces on the Thieberger accelerometer. 1989 , 62, 2332	2
1176	On differential fifth force measurements. 1989 , 136, 343-347	2
1175	Volumetric properties of proteins and their analogs in diluted water solutions. 1. Partial volumes of amino acids at 15-55 degrees C. 1989 , 34, 115-25	185
1174	Thermodynamic characterization of the water + methanol system, at 298.15K. 1989 , 142, 219-243	49
1173	Thermodynamics of mixtures containing triethoxymethane. 1989 , 151, 99-107	12
1172	Thermodynamic functions of activation for viscous flow of some monosaccharides in aqueous solutions. 1989 , 153, 297-304	11
1171	A simple algorithm for the estimation of the density of aqueous solutions containing two or more different salts. 1989 , 13, 419-424	7
1170	Excess molar volumes of (butanoic anhydride or heptanoic anhydride + n-alkane) at 298.15 K. 1989 , 21, 431-435	3
1169	Partial molar volumes in aqueous mixtures of nonelectrolytes. III.t-pentyl alcohol. 1989 , 18, 37-44	18
1168	Volumetric properties and electrolytic conductances of aqueous ternary mixtures of hydrogen chloride and some transition metal chlorides at 25°C. 1989 , 18, 1117-1131	11
1167	Redetermination of the viscosity of molten NaCl at elevated temperatures. 1989 , 10, 819-831	9
1166	Acoustical investigation of poly(dA).poly(dT), poly[d(A-T)], poly(A).poly(U) and DNA hydration in dilute aqueous solutions. 1989 , 17, 4189-203	55
1165	Concentrated Mixtures of 1:1 Electrolytes: Densities and Excess Volumes of Aqueous KBr with KCl and NaBr. 1989 , 62, 3311-3314	1
1164	Partial Molar Volumes in Aqueous Mixtures of Nonelectrolytes. IV. Aromatic Hydrocarbons. 1990 , 63, 1695-1699	52
1163	The PVT properties of concentrated aqueous electrolytes IX. The volume properties of KCl and K ₂ SO ₄ and their mixtures with NaCl and Na ₂ SO ₄ as a function of temperature. 1990 , 19, 353-374	46
1162	Ultrasonic speeds and isentropic functions of (a 2-alkoxyethanol + water) at 298.15 K. 1990 , 22, 99-108	160

1161	Excess molar volumes of (a cyclic amide + water) at 298.15 K and 308.15 K. 1990 , 22, 257-262	29
1160	Report of Density Intercomparisons Undertaken by the Working Group on Density of the CCM. 1990 , 27, 139-144	5
1159	Solvation thermodynamics: An approach from analytic temperature derivatives. 1990 , 92, 5020-5033	118
1158	A new water potential including polarization: Application to gas-phase, liquid, and crystal properties of water. 1990 , 92, 6755-6760	151
1157	The influence of pressure on the activity coefficients of the solutes and on the solubility of minerals in the system Na-Ca-Cl-SO ₄ -H ₂ O to 200°C and 1 kbar and to high NaCl concentration. 1990 , 54, 3265-3282	65
1156	Measurement of the Thermal Expansion of Pure Water in the Temperature Range 0°C-85°C. 1990 , 27, 165-171	22
1155	A new flexible/polarizable water model. 1991 , 95, 2791-2799	102
1154	Density, structural lifetime, and entropy of H-bond cages promoted by monohydric alcohols in normal and supercooled water. 1991 , 94, 6816-6826	26
1153	Dynamics of water studied by coherent and incoherent inelastic neutron scattering. 1991 , 250, 213-230	64
1152	Thermodynamic properties of (ethan-1,2-diol + water) at the temperature 298.15 K I. Molar volumes, isobaric molar heat capacities, ultrasonic speeds, and isentropic functions. 1991 , 23, 569-580	41
1151	Heat capacities and densities of mixtures of very polar substances 1. Mixtures containing acetonitrile. 1991 , 23, 421-429	48
1150	Compressions of some amides at pressures up to 200 MPa and at the temperature 298.15 K. 1991 , 23, 1125-1130	19
1149	Measurement of the densities of complex fluids: apparatus, validation, and results for water and for each of three complex mixtures (retrograde condensates). 1991 , 23, 883-899	1
1148	Anomalous temperature dependence of the thermal expansion of proteins. 1991 , 31, 161-7	19
1147	Excess molar heat capacities and excess molar volumes of some mixtures of propylene carbonate with aromatic hydrocarbons. 1991 , 20, 17-28	29
1146	Internal Pressures, Hard Core and Free Space Volumes and Boltzmann's Rule. 1991 , 23, 69-85	2
1145	Review: Solid and liquid density determination / Übersicht: Bestimmung der Dichte von Festkörpern und Flüssigkeiten. 1992 , 59,	91
1144	Hydrogen-bond cooperativity and free-volume effects on normal and supercooled water self-diffusion. 1992 , 46, R7367-R7370	9

1143	X-ray Investigation of Supercooled Water. 1992 , 96, 1463-1467	24
1142	Limiting partial molar volumes of electrolytes in dimethyl sulfoxide-water mixtures at 298.15 K. 1992 , 88, 223-226	8
1141	Effect of temperature and pressure on the protonation of glycine. 1992 , 61, 1394-401	23
1140	Bioelectrical-impedance analysis as a measure of body composition in a West Indian population. 1992 , 55, 1045-50	14
1139	Thermodynamics of liquid mixtures containing n-alkanes and strongly polar components: VE and C EP of mixtures with either pyridine or piperidine. 1992 , 21, 49-65	60
1138	Partial molar volumes of molecules of arbitrary shape and the effect of hydrogen bonding with water. 1992 , 21, 569-595	106
1137	Hydration behavior of mixed ligand chromium complexes. Part I: partial molar volumes and partial molar adiabatic compressibilities of oxalato and mixed oxalato-Ethylxanthato chromate(III) complexes. 1992 , 21, 699-710	
1136	Pressure and temperature effects on the excess deuteron and proton conductance. 1992 , 21, 971-985	17
1135	Solubility of gases in liquids. 18. High-precision determination of Henry fugacities for argon in liquid water at 2 to 40°C. 1992 , 21, 987-1004	31
1134	Temperature dependence of apparent molar volumes and viscosity B-coefficients of amino acids in aqueous potassium thiocyanate solutions from 15 to 35°C. 1992 , 21, 163-170	102
1133	Thermodynamic properties of transition metals in aqueous solution: 1. The enthalpies of dilution of some aqueous transition metal chloride solutions at 25°C. 1992 , 21, 249-259	8
1132	Volumetric properties of dilute aqueous solutions of cobalt-amine-type salts. Part I. Densities at 25°C. 1992 , 21, 297-304	4
1131	Partial molar volumes of monovalent ions in ethanolamine and water + ethanolamine mixtures at 25°C. 1992 , 21, 361-374	4
1130	Compressions of (water + formamide or N, N-dimethylformamide) at pressures up to 150 MPa and at the temperature 298.15 K. 1992 , 24, 797-808	12
1129	Partial molar volumes and partial molar expansibilities of cholesterol in some aprotic solvents. 1992 , 196, 401-413	19
1128	Ultrasonic speeds and isentropic functions of 2-(2-alkoxyethoxy)ethanol + water at 298.15 K. 1992 , 207, 313-328	94
1127	Singularity of liquid water-data analysis and modelling. 1992 , 79, 89-101	2
1126	Temperature dependent near-UV molar absorptivities of aliphatic aldehydes and ketones in aqueous solution. 1993 , 49, 1171-1178	29

- 1125 Thermodynamic properties of transition metals in aqueous solution. 2. The enthalpies of mixing of aqueous solutions of CoCl_2 , CuCl_2 , and MnCl_2 with NaCl at varying ionic strength at 25°C . **1993**, 22, 201-210 6
- 1124 Thermodynamic properties of transition metals in aqueous solution: 4. The enthalpies of mixing aqueous solutions of CdCl_2 , CuCl_2 and ZnCl_2 with MgCl_2 at varying ionic strength at 25°C . **1993**, 22, 1109-1117²
- 1123 Pressure and isotope effects on the proton jump of the hydroxide ion at 25°C . **1993**, 22, 1135-1149 9
- 1122 Volumetric properties of dilute aqueous solutions of cobalt amine type salts. Part 2. Densities at 15 and 5°C . **1993**, 22, 361-368 2
- 1121 Thermodynamic properties of transition metals in aqueous solution: 3. The heats of mixing aqueous solutions of CdCl_2 , NiCl_2 and ZnCl_2 with NaCl at varying ionic strength at 25°C . **1993**, 22, 457-467 3
- 1120 Thermodynamics of aqueous mixtures of 2-(2-Hexyloxyethoxy)ethanol at 5°C . **1993**, 22, 1041-1062 16
- 1119 Structural study of water confined in porous glass by neutron scattering. **1993**, 98, 4246-4252 182
- 1118 An extension of the practical salinity scale 1978 and the equation of state 1980 to high salinities. **1993**, 40, 1689-1698 19
- 1117 Measurement, analysis, and utility of excess molar (V/B) s. **1993**, 22, 43-50 52
- 1116 Thermodynamic study of the ternary system $\text{NaCl-H}_2\text{O-Et}_3\text{N}$ at 25°C . Part 1. Volumes. **1993**, 89, 3761-3766 14
- 1115 Molar volumes of metal complex ions in water. Part 1. Hexaammine and trisdiamine complexes. **1993**, 89, 3039-3042 3
- 1114 Role of hydrogen-bond cooperativity and free-volume fluctuations in the non-Arrhenius behavior of water self-diffusion: A continuity-of-states model. **1994**, 49, 2841-2850 32
- 1113 A vapor pressure model for aqueous electrolyte solutions based on mean spherical approximation. **1994**, 99, 75-85 12
- 1112 The effect of temperature and pressure on the protonation of ϕ -phosphate ions at 348.15 and 398.15 K, and at 1.52 and 12.50 MPa. **1994**, 23, 449-468 13
- 1111 The enthalpy of mixing aqueous solutions of CdCl_2 , CuCl_2 , MnCl_2 , and ZnCl_2 with HCl at varying ionic strength at 25°C . **1994**, 23, 511-519
- 1110 Volumetric properties of some methyl substituted benzoic acids and their sodium salts in water as a function of temperature. **1994**, 23, 541-560 8
- 1109 The volumes of mixing of aqueous solutions of CdCl_2 , CuCl_2 , MnCl_2 , and ZnCl_2 with HCl at varying ionic strength at 25°C . **1994**, 23, 901-910
- 1108 Heat capacities and densities of mixtures of very polar substances. 3. Mixtures containing either trichloromethane or 1,4-dioxane or diisopropylether. **1994**, 23, 153-166 42

1107	Densities, excess molar volumes, and partial molar volumes for binary mixtures of water with monoethanolamine, diethanolamine, and triethanolamine from 25 to 80°C. 1994 , 23, 195-205	143
1106	Thermodynamics of liquid mixtures containing hydrocarbons and strongly polar substances: V E and C EP of {pyridine or piperidine+cyclohexane} at 298.15 K. 1994 , 125, 877-885	5
1105	Measurement and prediction of the density of aqueous ternary mixtures of methyldiethanolamine and diethanolamine at temperatures from 25°C to 80°C. 1994 , 72, 125-129	8
1104	Diffusive and total oxygen uptake of deep-sea sediments in the eastern South Atlantic Ocean: in situ and laboratory measurements. 1994 , 41, 1767-1788	202
1103	Measurement of Absolute Water Density, 1 °C to 40 °C. 1994 , 31, 277-288	39
1102	Volumetric Properties of Dilute Aqueous Alcohol Solutions at Different Temperatures. 1994 , 67, 1580-1587	58
1101	Analyzing solvent reorganization and hydrophobicity. 1995 , 259, 555-76	21
1100	Thermodynamic quantities for the protonation of amino acid amino groups from 323.15 to 398.15 K. 1995 , 24, 1219-1247	26
1099	Excess molar volumes and molar refraction of 1,3-dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone+water water from 5 to 45°C. 1995 , 24, 1197-1208	11
1098	Thermodynamics of (1,4-difluorobenzene + an n-alkane) and of (hexafluorobenzene + an n-alkane). 1995 , 110, 299-313	27
1097	Temperature dependent near UV molar absorptivities of several small aldehydes in aqueous solution. 1995 , 51, 247-251	12
1096	On the GIBBS thermodynamic potential of seawater. 1995 , 36, 249-327	64
1095	Application of integral equation theories to predict the structure, thermodynamics, and phase behavior of water. 1995 , 102, 5427-5437	60
1094	Chappuis' experiments and the "chelle Normale". 1995 , 32, 397-399	
1093	Aerosol formation in diffusive boundary layer: Binary homogeneous nucleation of ammonia and water vapours. 1995 , 26, 547-558	7
1092	A chemical model of seawater including dissolved ammonia and the stoichiometric dissociation constant of ammonia in estuarine water and seawater from 0 to 40°C. 1995 , 59, 2403-2421	101
1091	Structure of water and ionic hydration. 1995 , 132-210	
1090	Volumetric properties of (water + diethanolamine) systems. 1995 , 73, 1514-1519	78

- 1089 A neutron scattering study of liquid D2O under pressure and at various temperatures. **1995**, 102, 3727-3735 163
- 1088 Volumetric properties of binary mixtures of water with methoxy(ethoxy)methanols. **1995**, 91, 2291-2298 37
- 1087 Simultaneous Vapor-Liquid-Liquid Equilibria and Phase Molar Densities of a Quaternary System of Propane + Pentane + Octane + Water. *Journal of Chemical & Engineering Data*, **1996**, 41, 918-922 2.8 19
- 1086 Polymer Impregnation to Assist Undisturbed Sampling of Cohesionless Soils. **1996**, 122, 209-215 14
- 1085 Partial Molar Volumes of Alkyl Acetates in Water. *Journal of Chemical & Engineering Data*, **1996**, 41, 1171-1175 2.8 11
- 1084 Molecular Interaction of Water Vapor and Air. *Journal of Chemical & Engineering Data*, **1996**, 41, 133-142 2.8 28
- 1083 Thermodynamic study of the ternary system NaCl-H₂O-Et₃N at 25 °C. Part 2. Compressibilities. **1996**, 92, 47-51 15
- 1082 Ultrasonic speeds and volumetric properties of binary mixtures of water with 2-[2-(2-alkoxyethoxy)ethoxy]ethanols at 298.15 K. **1996**, 92, 2369-2379 17
- 1081 Partial Molar Volumes and Isentropic Compressibilities of N-Acetyl Amino Acid Amides in Dilute Aqueous Solutions at (5, 15, 25, 35, and 45) °C. *Journal of Chemical & Engineering Data*, **1996**, 41, 1439-1445 2.8 41
- 1080 Thermodynamic study of the ternary system NaCl-H₂O-Et₃N at 25 °C. Part 3. Solubilities. **1996**, 92, 1487-1491 5
- 1079 The effect of hygroscopicity on cloud droplet formation. **1996**, 48, 347-360 13
- 1078 A coupled density functional-molecular mechanics Monte Carlo simulation method: The water molecule in liquid water. **1996**, 17, 19-29 106
- 1077 Experimental and theoretical determination of vapor pressures of NaCl-KCl, NaBr-KBr and NaCl-CaCl₂ aqueous solutions at 298 to 343 K. **1996**, 124, 235-249 18
- 1076 Dielectric constants of acetonitrile, butyrolactone, propylene carbonate, and 1,2-dimethoxyethane as a function of pressure and temperature. **1996**, 25, 1163-1173 58
- 1075 Volumetric properties of mixtures of water and methanol H/D-isotopomers between 5 and 45°C. **1996**, 25, 191-201 20
- 1074 Density and viscosity studies of poly(ethylene-oxide) alkyl alcohols. **1996**, 25, 757-772 16
- 1073 Normalized fluctuations, H₂O vs n-hexane: Site-correlated percolation. **1996**, 105, 2028-2033 17
- 1072 Variation of Liquid Temperature at Bubble Wall near the Sonoluminescence Threshold. **1996**, 65, 2830-2840 61

1071	Simple Relationship between the Properties of Isotopic Water. 1996 , 100, 3825-3827		31
1070	Transmission line method for the measurement of the acoustic nonlinearity parameter in biological liquids at very high frequencies. 1997 , 102, 3038-3044		8
1069	Effects of phosphorus level and microbial phytase supplementation on the performance and bone mineralization in pigs. 1997 , 47, 159-167		1
1068	Limiting Partial Molar Volumes of Tetra-n-alkylammonium Bromides in xDimethylformamide + (1 - x)Water Mixtures at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 441-445	2.8	5
1067	Study of Ultrasonic Speeds of $\{xH(CH_2)_nO(CH_2)_2_3OH + (1 - x)H_2O\}$, ($n = 1$ and 2) at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 689-691	2.8	4
1066	Molten globule of human alpha-lactalbumin: hydration, density, and compressibility of the interior. 1997 , 36, 1882-90		73
1065	On Possible Interpretations of the Anomalous Properties of Supercooled Water. 1997 , 101, 7573-7583		36
1064	Partial volumes and compressibilities of extended polypeptide chains in aqueous solution: additivity scheme and implication of protein unfolding at normal and high pressure. 1997 , 36, 10276-85		115
1063	A Continuously Weighed Pycnometer for Measuring Fluid Properties. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 738-744	2.8	18
1062	Densities of Aqueous Blended Amines. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 502-507	2.8	74
1061	The effect of saturation fluctuations on droplet growth. 1997 , 28, 1395-1409		27
1060	Shear Viscosity of Hexane+Tetradecafluorohexane near the Upper Critical Endpoint. 1997 , 101, 114-119		9
1059	Partial molar volumes and adiabatic compressibilities of N-acetyl-DL-serinamide and N-acetyl-L-threoninamide in dilute aqueous solutions. 1997 , 26, 579-594		27
1058	Partial molar volumes and partial molar adiabatic compressibilities of potassium trioxalato complexes of Al(III), Fe(III), Co(III), and Cr(III) between 15° and 35°C. 1997 , 26, 609-619		2
1057	Volume and compressibility effects in the formation of metal-EDTA complexes. 1997 , 26, 877-888		15
1056	Ionic association in aqueous solutions of salts with tetraalkylammonium ions. 1997 , 73-74, 133-145		5
1055	Caloric properties of dilute nonelectrolyte solutions: A success story. 1997 , 300, 159-168		13
1054	Ultrasonic velocities and isentropic compressions of triethylamine in water and in aqueous tetraethylammonium chloride solutions from 15 to 35°C. 1997 , 298, 65-74		11

1053	Thermodynamic and Dynamic Properties of Micellar Aggregates of Nonionic Surfactants with Short Hydrophobic Tails. 1997 , 190, 286-93		38
1052	A cluster model explaining quantitatively the anomalous variation of density of water with temperature. 1997 , 266, 473-480		6
1051	Apparent molal volumes of pectic acid and some tetra-n-alkylammonium salts of pectic acid. 1997 , 33, 767-772		2
1050	Effective viscosities of a phase-separating binary mixture imposed to shear. 1998 , 240, 271-275		3
1049	Temperature dependence of TIP3P, SPC, and TIP4P water from NPT Monte Carlo simulations: Seeking temperatures of maximum density. 1998 , 19, 1179-1186		338
1048	Hydration of polyethylene glycol-grafted liposomes. 1998 , 74, 1371-9		224
1047	A method for calibrating the line-focus-beam acoustic microscopy system. 1998 , 45, 421-30		49
1046	Apparent Molar Volumes of L-Glycine, L-Alanine, and L-Serine in Water + Dimethylformamide Mixtures at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 700-702	2.8	31
1045	Partial Molar Volumes and Isentropic Compressibilities of Amino Acids in Dilute Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 205-214	2.8	62
1044	Aggregation of Hydrocarbons in Dilute Aqueous Solutions. 1998 , 102, 1005-1012		20
1043	Bio-Information between Quantum and Continuum Physics. The Mesoscopic Picture. 1998 , 45-68		
1042	Variations of cloud droplet concentrations and the optical properties of clouds due to changing hygroscopicity: A model study. 1998 , 103, 16183-16195		19
1041	Simple Formulas for Thermophysical Properties of Liquid Water for Heat Transfer Calculations (from 0°C to 150°C). 1998 , 19, 87-101		146
1040	Singularity-free interpretation of the thermodynamics of supercooled water. II. Thermal and volumetric behavior. 1998 , 109, 626-633		109
1039	A molecular-orbital derived polarization potential for liquid water. 1998 , 109, 2346-2354		100
1038	Integral equations and simulation studies of waterlike models. 1998 , 108, 4505-4515		10
1037	An integral equation study of a simple point charge model of water. 1999 , 110, 1148-1153		61
1036	Apparent molar volumes and viscosity B-coefficients of some amino acids in aqueous solutions from 278.15 to 308.15K. 1999 , 334, 17-27		138

1035	Partial molar volumes of some alpha-amino acids in aqueous sodium acetate solutions at 308.15 K. 1999 , 80, 179-88		64
1034	Hydrophobicity of benzene. 1999 , 82, 69-79		35
1033	Speeds of sound and excess volumetric properties of mixtures of water with ethylene glycol monopropyl ether at 298.15 K. 1999 , 80, 1-18		25
1032	The structuredness of water at elevated temperatures along the saturation line. 1999 , 79, 151-165		17
1031	Volumetric properties of water, and solutions of sodium chloride and potassium chloride at temperatures from T= 277.15 K to T= 343.15 K at molalities of (0.1, 0.5, and 1.0) mol/kg. 1999 , 31, 869-893		62
1030	Excess molar heat capacities and excess molar volumes of (ann-alkylalkanoate + 2,2,4-trimethylpentane, or 2,2,4,4,6,8,8-heptamethylnonane) at T= 298.15 K. 1999 , 31, 1151-1164		2
1029	Temperature dependence of the ultraviolet-visible spectra of ionized and un-ionized forms of nitrophenol: consequence for the determination of enzymatic activities using nitrophenyl derivatives-A warning. 1999 , 270, 184-5		13
1028	Solvolysis of o-methylbenzenediazonium tetrafluoroborate in acidic methanol-water mixtures. Further evidence for nucleophilic attack on a solvent separated aryl cation. 1999 , 31, 531-538		5
1027	Densities and Viscosities of Triethylene Glycol Monomethyl Ether +Water Solutions in the Temperature Interval 25 °C to 80 °C. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 101-107	2.8	28
1026	Temperature Dependence of Density of Polymer Gels 1. A Pycnometry Method Applied to Poly(N-isopropylacrylamide)/Water System. 1999 , 103, 7097-7101		8
1025	Apparent molar volume of some amino acids in aqueous electrolyte systems. 1999 , 77, 1288-1294		29
1024	H ₃ O ⁺ and OH ⁻ in Water. 1999 , 21, 239-247		7
1023	Viscosity B-coefficients of Some Amino Acids in Aqueous Guanidine Hydrochloride Solution from 278.15 to 308.15 K. 1999 , 211, 121-131		20
1022	REFRACTIVE INDEX OF WATER AND ELECTRO-OPTICAL DISTANCE MEASUREMENT THROUGH RAIN. 1999 , 35, 11-22		
1021	Potential Energy Surfaces for Liquid Ammonia: An Estimation of ab initio Calculations for Molecular Simulations. 2000 , 73, 289-295		4
1020	Solubility of gases in liquids. 22. High-precision determination of Henry's law constants of oxygen in liquid water from T=274 K to T=328 K. 2000 , 32, 1145-1156		61
1019	Measurements of acoustic properties of aqueous dextran solutions in the VHF/UHF range. 2000 , 38, 915-9		22
1018	Temperature dependent near-UV molar absorptivities of glyoxal and gluteraldehyde in aqueous solution. 2000 , 56, 2653-8		19

1017	Experimental densities, speeds of sound, derived volumes and compressibilities of H ₂ O-KCl-MgCl ₂ -NaCl and H ₂ O-KCl-MgCl ₂ -NaCl-NaCl systems at ionic strength 3 mol kg ⁻¹ and at 298.15 K. 2000 , 171, 197-206		4
1016	A new alternative method to quantify residual structure in 'unfolded' proteins. 2000 , 1479, 155-65		26
1015	Correlation between drug release kinetics from proteineous matrices and protein folding: elasticity and compressibility study. 2000 , 67, 261-74		11
1014	Diffraction effects on bulk-wave ultrasonic velocity and attenuation measurements. 2000 , 108, 564-73		44
1013	Standard Volumes of Transfer for Some α -Amino Acids from Water to Aqueous Sodium Acetate Solutions at 298.15 K. 2000 , 214,		27
1012	Hydration Thermodynamics of N-Methylacetamide. 2000 , 69, 3720-3725		14
1011	Time-resolved thermodynamic changes photoinduced in 5,12-trans-locked bacteriorhodopsin. Evidence that retinal isomerization is required for protein activation. 2000 , 72, 590-7		20
1010	Experimental study of construction mechanism of V(z) curves obtained by line-focus-beam acoustic microscopy. 2000 , 47, 1042-50		8
1009	Solvation thermodynamics of cyclohexane. 2000 , 78, 1233-1241		6
1008	A Liquid Water Model: Density Variation from Supercooled to Superheated States, Prediction of H-Bonds, and Temperature Limits. 2000 , 104, 11268-11274		49
1007	Binary Mutual Diffusion Coefficients of Aqueous Cyclic Ethers at 25 °C. Tetrahydrofuran, 1,3-Dioxolane, 1,4-Dioxane, 1,3-Dioxane, Tetrahydropyran, and Trioxane. <i>Journal of Chemical & Engineering Data</i> , 2000 , 45, 815-818	2.8	46
1006	Densities and Viscosities for Binary Mixtures of N-Methyldiethanolamine + Triethylene Glycol Monomethyl Ether from 25 °C to 70 °C and N-Methyldiethanolamine + Ethanol Mixtures at 40 °C. <i>Journal of Chemical & Engineering Data</i> , 2000 , 45, 247-253	2.8	41
1005	Development of Polarizable Water Force Fields for Phase Equilibrium Calculations. 2000 , 104, 2391-2401		200
1004	Effect of Temperature on Excess Molar Volumes and Viscosities for Propylene Carbonate + N,N-Dimethylformamide Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2000 , 45, 440-444	2.8	37
1003	Thermodynamics and Kinetics of the Early Steps of Solid-State Nucleation in the Fluid Lipid Bilayer. 2000 , 104, 10368-10378		42
1002	On the Solvent Isotope Effect in Hydrophobic Hydration. 2000 , 104, 9249-9254		33
1001	A five-site model for liquid water and the reproduction of the density anomaly by rigid, nonpolarizable potential functions. 2000 , 112, 8910-8922		1778
1000	Recommended table for the density of water between 0 °C and 40 °C based on recent experimental reports. 2001 , 38, 301-309		220

999	Simulations of ice and liquid water over a range of temperatures using the fluctuating charge model. 2001 , 114, 2276-2283		169
998	Excess Molar Volumes and Viscosities for Binary Mixtures of γ -Butyrolactone with Methyl Formate, Ethyl Formate, Methyl Acetate, Ethyl Acetate, and Acetonitrile at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 631-634	2.8	49
997	Liquid Density of Aqueous Blended Alkanolamines and N-Methylpyrrolidone as a Function of Concentration and Temperature. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 861-867	2.8	37
996	Shock Waves in Liquids. 2001 , 263-314		1
995	Hydration of Aromatic Hydrocarbons. 2001 , 105, 10367-10372		60
994	An analysis of the hydration thermodynamics of the CONH group. 2001 , 79, 1310-1320		5
993	A Liquid Water Model That Explains the Variation of Surface Tension of Water with Temperature. 2001 , 40, 1467-1471		6
992	Thermodynamic and structural properties of liquid water around the temperature of maximum density in a wide range of pressures: A computer simulation study with a polarizable potential model. 2001 , 115, 3750-3762		19
991	Limiting Partial Molar Volumes of Glycine, L-Alanine, and L-Serine in Ethylene Glycol + Water Mixtures at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 522-525	2.8	27
990	A New Interpretation of Anomalous Properties of Water Based on Stillinger's Postulate. 2001 , 105, 2019-2026		40
989	Apparent Molar Volumes and Viscosities of Some α -Amino Acids in Aqueous Sodium Butyrate Solutions at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 217-222	2.8	80
988	Volumetric Properties and Viscosities for Aqueous Diglycolamine Solutions from 25 °C to 70 °C. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 56-62	2.8	23
987	Low-reflection-coefficient liquid interfaces for system characterization. 2001 , 27, 1003-10		7
986	Volumetric properties and viscosities of the methyl butanoate + n-heptane + n-octane ternary system and its binary constituents in the temperature range from 283.15 to 313.15 K. 2001 , 186, 207-234		74
985	Volumetric properties of aqueous solutions of sodium bromide at temperatures from 278.15 K to 338.15 K and molalities of (0.1, 0.5, and 1.0) mol/kg. 2001 , 33, 581-595		9
984	Apparent molar heat capacities and apparent molar volumes of $\text{Y}_2(\text{SO}_4)_3(\text{aq})$, $\text{La}_2(\text{SO}_4)_3(\text{aq})$, $\text{Pr}_2(\text{SO}_4)_3(\text{aq})$, $\text{Nd}_2(\text{SO}_4)_3(\text{aq})$, $\text{Eu}_2(\text{SO}_4)_3(\text{aq})$, $\text{Dy}_2(\text{SO}_4)_3(\text{aq})$, $\text{Ho}_2(\text{SO}_4)_3(\text{aq})$, and $\text{Lu}_2(\text{SO}_4)_3(\text{aq})$ at $T = 298.15$ K and $p = 0.1$ MPa. 2001 , 33, 643-687		23
983	Volumetric properties of aqueous solutions of lithium chloride at temperatures from 278.15 K to 338.15 K and molalities (0.1, 0.5, and 1.0) mol/kg. 2001 , 33, 1133-1155		26
982	Volumetric properties of aqueous solutions of disodium tartrate and dipotassiuml-tartrate at temperatures from 278.15 K to 343.15 K and molalities (0.1, 0.5, and 1.0) mol/kg. 2001 , 33, 1157-1168		10

981	Strange Predictions by Binary Heterogeneous Nucleation Theory Compared with a Quantitative Experiment[] 2001 , 105, 11800-11808	27
980	New example of the self-improving measuring system in pycnometric density measurements on liquids. 2001 , 38, 135-145	
979	Response to Comment on Mixture model description of the T-, P dependence of the refractive index of water[] [J. Chem. Phys. 115, 7795 (2001)]. 2001 , 115, 7796-7797	1
978	Equilibrium and nonequilibrium molecular-dynamics simulations of the central force model of water. 2001 , 115, 7564-7574	89
977	Quantum effects in liquid water: Path-integral simulations of a flexible and polarizable ab initio model. 2001 , 115, 7622-7628	147
976	Combined fluctuating charge and polarizable dipole models: Application to a five-site water potential function. 2001 , 115, 2237-2251	256
975	Quantum, intramolecular flexibility, and polarizability effects on the reproduction of the density anomaly of liquid water by simple potential functions. 2001 , 115, 10758-10768	89
974	Size dependence of the solubility of nonpolar compounds in different solvents. 2002 , 80, 401-412	40
973	Active immunization of broiler breeder hens with a recombinant chicken inhibin fusion protein enhances egg lay. 2002 , 81, 519-28	13
972	Quantum Cluster Equilibrium Theory of Liquids: Isotopically substituted QCE/3-21G Model Water. 2002 , 216,	19
971	International comparison of volume measurement standards at 50 l at the CENAM (Mexico), PTB (Germany), Measurement Canada and NIST (USA). 2002 , 39, 91-95	2
970	Structure of 1-Propanol Aqueous Solution through Kirkwood-Buff Integrals and Fluctuations. 2002 , 2002, 301-307	3
969	Atomistic simulations of liquid water using Lekner electrostatics. 2002 , 100, 3753-3769	42
968	Comment on Reevaluation in Interpretation of Hydrophobicity by Scaled Particle Theory[] 2002 , 106, 7713-7716	40
967	Pressure Effect on the Density of Water[] 2002 , 106, 7557-7561	27
966	Flexible constraints: An adiabatic treatment of quantum degrees of freedom, with application to the flexible and polarizable mobile charge densities in harmonic oscillators model for water. 2002 , 116, 9602-9610	27
965	Thermodynamics. Water and ice. 2002 , 297, 1288-9	57
964	Aggregative processes in aqueous solutions of isomeric 2-butoxyethanols at 298.15 K. 2002 , 4, 6034-6042	73

963	Size and temperature dependence of hydrocarbon solubility in concentrated aqueous solutions of urea and guanidine hydrochloride. 2002 , 80, 388-400	22
962	Dynamics of melting and stability of ice 1h: Molecular-dynamics simulations of the SPC/E model of water. 2002 , 116, 8876-8880	57
961	Development of the line-focus-beam ultrasonic material characterization system. 2002 , 49, 99-113	56
960	A method of determining acoustical physical constants for piezoelectric materials by line-focus-beam acoustic microscopy. 2002 , 49, 893-904	13
959	Volumetric properties of binary mixtures of N, N- dimethylformamide with water or water- d2 at temperatures from 277.13 K to 318.15 K. 2002 , 34, 927-957	95
958	Vapour pressure measurements and thermodynamic properties of aqueous solutions of sodium acetate. 2002 , 34, 1057-1071	21
957	A polarizable force field for water using an artificial neural network. 2002 , 641, 77-91	43
956	Calorimetric and volumetric studies of the interactions of butyramide in aqueous carboxylic acid solutions at 298.15 K. 2002 , 386, 103-110	10
955	Modelling secondary particle formation in emulsion polymerisation: application to making core-shell morphologies. 2002 , 43, 4557-4570	45
954	Speed of sound and isentropic bulk modulus of alkyl monoesters at elevated temperatures and pressures. 2003 , 80, 1249-1256	49
953	A new extended Gibbs thermodynamic potential of seawater. 2003 , 58, 43-114	84
952	A temperature of maximum density in soft sticky dipole water. 2003 , 376, 646-652	33
951	Excess thermodynamic properties of binary mixtures of N,N-dimethylacetamide with water or water-d2 at temperatures from 277.13 K to 318.15 K. 2003 , 35, 279-300	48
950	Investigation of a colloidal damper. 2003 , 259, 62-80	76
949	Calorimetric and volumetric studies of the interactions of formamide with alkan-1-ol in water at 298.15 K. 2003 , 406, 233-239	14
948	Modeling and simulation of saline extractive distillation columns for the production of absolute ethanol. 2003 , 27, 527-549	32
947	Prediction of lean to fat tissue ratio of pork belly by specific gravity. 2003 , 58, 295-297	2
946	Osmotic coefficients and solvation thermodynamics of aqueous solutions of some lower poly(ethylene glycol)s at different temperatures. 2003 , 103-104, 187-200	7

945	Entropy convergence in hydrophobic hydration: a scaled particle theory analysis. 2003 , 105, 241-50		46
944	Determination of stoichiometric dissociation constants of lactic acid in aqueous salt solutions at 291.15 and at 298.15 K. 2003 , 204, 245-266		14
943	Thermophysical properties of four binary dimethyl carbonate + 1-alcohol systems at 288.15 and 313.15 K. 2003 , 211, 219-240		86
942	Temperature of maximum density line of a polarizable water model. 2003 , 67, 011201		10
941	Polarizable Atomic Multipole Water Model for Molecular Mechanics Simulation. 2003 , 107, 5933-5947		1148
940	6 Compressibilities of amino acids, peptides and proteins in aqueous solution. 6001-6017		
939	Vapor Pressure and Dissolution Enthalpy Measurements in Ternary {H ₂ O + NaCl + Na ₂ SO ₄ } System between 298 K and 363 K. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 241-248	2.8	10
938	Speed of Sound in Concentrated Aqueous KCl Solutions from 278.15 to 338.15 K. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 388-391	2.8	5
937	Determination of Stoichiometric Dissociation Constants of Acetic Acid in Aqueous Solutions Containing Acetic Acid, Sodium Acetate, and Sodium Chloride at (0 to 60) °C. <i>Journal of Chemical & Engineering Data</i> , 2003 , 48, 797-807	2.8	21
936	Heat Capacity Change of the Hydrophobic Interaction. 2003 , 107, 9853-9857		34
935	Supercooled and glassy water. 2003 , 15, R1669-R1726		872
934	Acoustic properties of silica glass doped with fluorine. 2003 , 321, 126-133		6
933	Hydrogen bonding and molecular mobility in liquid water in external electromagnetic fields. 2003 , 119, 11806-11813		96
932	An intermolecular potential model for the simulation of ice and water near the melting point: A six-site model of H ₂ O. 2003 , 118, 7401		198
931	Compressibility of tert-Butyl Alcohol-Water Mixtures: The RISM Theory. 2003 , 02, 193-203		36
930	Volumetric Properties and Volumetric Interaction Parameters of the CsCl-saccharides (D-glucose, D-fructose)-water Solutions at 298.15 K. 2003 , 50, 947-952		13
929	Measurement and Prediction of the Density of Aqueous Multicomponent Solutions Involving Polyethylene Glycol 2000. 2004 , 37, 40-44		7
928	Comparação de métodos de determinação da gravidade específica de ovos de poedeiras comerciais. 2004 , 39, 509-512		28

927	Binary homogeneous nucleation in water-succinic acid and water-glutaric acid systems. 2004 , 120, 282-91	38
926	Case study of enthalpy-entropy noncompensation. 2004 , 120, 4467-71	28
925	Charge-on-spring polarizable water models revisited: from water clusters to liquid water to ice. 2004 , 121, 9549-64	177
924	Tests for thermodynamic state of water's high-density amorph. 2004 , 121, 8428-9	7
923	Apparent Molar Volumes and Adiabatic Compressibilities of Some Amino Acids in Aqueous Sucrose Solutions at 298.15 K. 2004 , 218, 1169-1186	19
922	Effect of temperature on volumetric and viscosity properties of some amino acids in aqueous calcium chloride solutions. 2004 , 215, 143-150	146
921	Limiting Partial Molar Volumes of Electrolytes in 2-Methyl-2-Butanol + Water Mixtures at 298.15 K. 2004 , 33, 1277-1293	7
920	Equilibrium between two liquid structures in water: explicit representation via significant liquid structure theory. 2004 , 111, 141-149	1
919	Statistical thermodynamics of aqueous solutions. I. Water structure, solutions with non-polar solutes, and hydrophobic interactions. 2004 , 682, 97-113	38
918	Enthalpic and volumetric studies of the interactions of propionamide in aqueous carboxylic acid solutions at 298.15K. 2004 , 416, 65-70	8
917	Effect of tetra-n-alkylammonium bromides on the volumetric properties of glycine, l-alanine and glycylglycine at T=298.15 K. 2004 , 36, 49-58	32
916	Thermodynamics of aqueous solutions of polyvinylpyrrolidone. 2004 , 36, 665-670	81
915	Volumetric properties and volumetric interaction parameters for the CsCl-monosaccharide (d-galactose, d-xylose and d-arabinose) aqueous systems at T=298.15 K. 2004 , 36, 671-676	12
914	Viscosity of aqueous solutions of 2-methoxyethanol, 2-ethoxyethanol, and ethanolamine. 2004 , 36, 889-893	39
913	Prediction of fluid densities using automatically derived VDW parameters. 2004 , 217, 59-76	21
912	Water: cavity size distribution and hydrogen bonds. 2004 , 396, 226-231	65
911	Aliphatics vs. aromatics hydration thermodynamics. 2004 , 110, 249-58	14
910	Aggregative processes in aqueous solutions of mono- to tetra-ethylene glycol dimethyl ether at 298.15 K. 2004 , 6, 784-792	31

909	Temperature and Pressure Dependence of the AMOEBA Water Model. 2004 , 108, 13427-13437		175
908	Re-Evaluation of Stoichiometric Dissociation Constants from Electrochemical Cell Data for Propionic and n-Butyric Acids at (0 to 60) °C and for Some Other Aliphatic Carboxylic Acids at (18 or 25) °C in Aqueous Sodium Chloride Solutions. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 394-406	2.8	16
907	Partial Molar Volumes and Viscosities of Some α -Amino Acids in Micellar Solutions of Sodium Caprylate. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 1354-1358	2.8	22
906	Atom-Bond Electronegativity Equalization Method Fused into Molecular Mechanics. II. A Seven-Site Fluctuating Charge and Flexible Body Water Potential Function for Liquid Water. 2004 , 108, 7563-7576		74
905	Nonideal Effects on the Excess Volume from Small to Large Cavities in TIP4P Water. 2004 , 108, 16244-16249		31
904	An application of flexible constraints in Monte Carlo simulations of the isobaric--isothermal ensemble of liquid water and ice Ih with the polarizable and flexible mobile charge densities in harmonic oscillators model. 2004 , 120, 11133-43		49
903	A reoptimization of the five-site water potential (TIP5P) for use with Ewald sums. 2004 , 120, 6085-93		327
902	Development of an improved four-site water model for biomolecular simulations: TIP4P-Ew. 2004 , 120, 9665-78		1424
901	Model for Calculating the Density of Aqueous Electrolyte Solutions. <i>Journal of Chemical & Engineering Data</i> , 2004 , 49, 1141-1151	2.8	119
900	Volumetric properties of l-alanine, and l-valine in aqueous sucrose solutions at T = (288.15 and 308.15) K. 2005 , 37, 1085-1092		51
899	Preparation of psychrometric charts for water vapour in Martian atmosphere. 2005 , 48, 1785-1796		10
898	Excess molar volumes and excess molar enthalpies of binary and ternary mixtures of (ethanol or 1-butanol), triethylamine and n-hexane. 2005 , 237, 170-185		14
897	On the hydration heat capacity change of benzene. 2005 , 116, 137-44		9
896	Molecular simulations of outersphere reorganization energies for intramolecular electron and hole transfer in polar solvents. 2005 , 319, 4-15		15
895	Effect of grafted PEG on liposome size and on compressibility and packing of lipid bilayer. 2005 , 135, 117-29		233
894	An investigation of gas hydrates formation energetics. 2005 , 51, 1258-1273		14
893	Vapor-liquid equilibria of the polyvinylpyrrolidone+(NH ₄) ₂ SO ₄ +H ₂ O system at different temperatures. 2005 , 233, 176-183		8
892	Apparent Molar Volume and Apparent Molar Expansibility of Lithium, Sodium, Potassium, and Tetramethylammonium Cyclohexylsulfamate in Aqueous Solution. 2005 , 136, 1727-1736		11

891	Deep oxidation of aqueous organics over a silicon carbide-activated carbon supported platinum-ruthenium bimetallic catalyst. 2005 , 33, 51-57		2
890	Thermodynamics of Micelle Asymmetrization in Aqueous Sodium Decyl Sulfate Solution. 2005 , 67, 581-588		6
889	Comment on "hydrophobic effects on partial molar volume" [J. Chem. Phys. 122, 094509 (2005)]. 2005 , 123, 167103; author reply 167104		7
888	Calculation of heat capacities of light and heavy water by path-integral molecular dynamics. 2005 , 123, 134502		45
887	Nanosecond freezing of water under multiple shock wave compression: continuum modeling and wave profile measurements. 2005 , 123, 64702		43
886	Water models based on a single potential energy surface and different molecular degrees of freedom. 2005 , 122, 224509		18
885	Efficient quantum monte carlo energies for molecular dynamics simulations. 2005 , 94, 056403		38
884	Influence of phosphorus level and soaking of food on phosphorus availability and performance in growing-finishing pigs. 2005 , 81, 375-381		20
883	Differential temperature-of-flotation method (DTFM) for ultra-precise water density comparisons. 2005 , 42, 308-322		1
882	Chapter 5 A Review of the TIP4P, TIP4P-Ew, TIP5P, and TIP5P-E Water Models. 2005 , 1, 59-74		12
881	Re-evaluation of Stoichiometric Dissociation Constants from Electrochemical Cell Data for Formic Acid at Temperatures from (0 to 60) °C and for Some Other Aliphatic Carboxylic Acids at (18 or 25) °C in Aqueous Potassium Chloride Solutions. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 497-507	2.8	7
880	Submerged microcontact printing (SmuCP): an unconventional printing technique of thiols using high aspect ratio, elastomeric stamps. 2005 , 21, 12060-3		32
879	Effects of pressure on aqueous chemical equilibria at subzero temperatures with applications to Europa. 2005 , 69, 259-274		55
878	The physics of liquid water. 2005 , 337, 159-171		41
877	Static and dynamic structures of spherical nonionic surfactant micelles during the disorder-order transition. 2005 , 122, 44906		23
876	Isopestic Determination of Water Activity in the Poly(vinylpyrrolidone) + NaCl + H ₂ O System at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 508-511	2.8	8
875	Molecular dynamics simulations of liquid water using various long-range electrostatics techniques. 2005 , 103, 1945-1960		46
874	The flexible, polarizable, thole-type interaction potential for water (TTM2-F) revisited. 2006 , 110, 4100-6		140

873	Partial molar volume of n-alcohols at infinite dilution in water calculated by means of scaled particle theory. 2006 , 124, 134507		17
872	Elementary kinematical model of thermal diffusion in liquids and gases. 2006 , 74, 036306		63
871	Volumetric Properties, Viscosities, and Refractive Indices for Aqueous 2-((2-Aminoethyl)amino)ethanol Solutions from (298.15 to 343.15) K. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1268-1273	2.8	29
870	Density and Viscosity of Aqueous Blends of Three Alkanolamines: N-Methyldiethanolamine, Diethanolamine, and 2-Amino-2-methyl-1-propanol in the Range of (303 to 343) K. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 702-707	2.8	51
869	Shear Viscosities of Methycyclohexane, Perfluoromethylcyclohexane, and Their Mixtures in the Vicinity of the Upper Critical Mixing Temperature. 1. Critical Isopleth and Coexistence Curve. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1502-1508	2.8	5
868	Surface Tensions and Densities of Oxalic, Malonic, Succinic, Maleic, Malic, and cis-Pinonic Acids. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 255-260	2.8	68
867	The link between sequence and conformation in protein structures appears to be stereochemically established. 2006 , 110, 9314-23		42
866	Measurement and correlation of vapor-liquid equilibria of the poly(vinylpyrrolidone)+NaH ₂ PO ₄ +H ₂ O system at different temperatures. 2006 , 30, 53-60		10
865	Hydrophobic Interactions by Monte Carlo Simulations. 2006 , 220, 349-369		22
864	Vapor-liquid equilibrium in aqueous systems containing poly(vinylpyrrolidone) and sodium citrate at different temperatures Experimental and modeling. 2006 , 249, 33-41		16
863	Isentropic and isothermal compressibilities of the backbone glycol group of proteins in aqueous solution. 2006 , 124, 35-42		16
862	Temperature dependence of diffusion properties of soft sticky dipole water. 2006 , 421, 166-170		9
861	Non-intrinsic contribution to the partial molar volume of cavities in water. 2006 , 429, 420-424		18
860	Cavity contact correlation function of water from scaled particle theory. 2006 , 432, 84-87		17
859	Thermohydrromechanical simulations of the natural cooling stage of the Tunnel Sealing Experiment. 2006 , 85, 313-331		14
858	Supercooled water: A molecular dynamics simulation study with a polarizable potential. 2006 , 127, 28-32		3
857	Excess molar volumes and excess molar enthalpies of binary and ternary mixtures of 1-butanol, a tertiary amine (tri-n-butylamine or tri-n-octylamine) and n-hexane: Experimental results and ERAS-model calculations. 2006 , 38, 1199-1213		24
856	Intermolecular/interionic interactions in l-isoleucine-, l-proline-, and l-glutamine-aqueous electrolyte systems. 2006 , 38, 1684-1695		18

855	Solubility of methane in water and in a medium for the cultivation of methanotrophs bacteria. 2006 , 38, 1629-1633	28
854	Effects of warm water inflows on the dispersion of pollutants in small reservoirs. 2006 , 81, 210-22	6
853	Intermolecular/interionic interactions in l-leucine-, l-asparagine-, and glycylglycine-aqueous electrolyte systems. 2006 , 445, 40-48	34
852	The "macromolecular tourist": universal temperature dependence of thermal diffusion in aqueous colloidal suspensions. 2006 , 19, 59-67	162
851	Differential scanning calorimetry of a metalloprotein under controlled metal-ion activity. 2006 , 25, 475-82	
850	Volumetric Properties of Aqueous Solutions of Cyclohexylsulfamic Acid. 2006 , 35, 395-406	4
849	Effect of Ammonium Salts on the Volumetric and Viscometric Behavior of D(+)-Glucose, D(-)-Fructose and Sucrose in Aqueous Solutions at 25°C. 2006 , 35, 815-844	31
848	Transfer Volumes of Glycine, L-Alanine, and L-Serine from Water to 1,2-Butanediol/Water Mixtures at 298.15 K. 2006 , 35, 191-200	21
847	Apparent Molar Volume and Apparent Molar Expansibility of Rubidium, Cesium, and Ammonium Cyclohexylsulfamate in Aqueous Solution. 2006 , 137, 1151-1162	9
846	Thermodynamic properties of aqueous polypropylene oxide 400 solutions from isopiestic measurements over a range of temperatures. 2006 , 249, 165-172	27
845	Densities, molar volumes, and isobaric expansivities of (d-xylose + hydrochloric acid + water) systems. 2006 , 38, 34-42	4
844	Water activities of ternary mixtures of poly(ethylene glycol), NaCl and water over the temperature range of 293.15K to 313.15K. 2006 , 38, 1335-1343	29
843	Standardization of chemical shifts of TMS and solvent signals in NMR solvents. 2006 , 44, 606-16	89
842	Anomalien des flüssigen Wassers. 2006 , 94, 351-365	14
841	Spectroscopic pH measurement for high temperatures, pressures and ionic strength. 2006 , 52, 3257-3265	16
840	Liquid Water Structure from Anomalous Density under Ambient Condition. 2006 , 23, 3022-3024	5
839	A quantitative account of quantum effects in liquid water. 2006 , 125, 141102	74
838	Supercooled water relaxation dynamics probed with heterodyne transient grating experiments. 2006 , 74, 031502	30

837	Ab initio quantum mechanical/molecular mechanical molecular dynamics using multiple-time-scale approach and perturbation theory. 2007 , 33, 171-184		13
836	Influence of bond flexibility on the vapor-liquid phase equilibria of water. 2007 , 126, 044701		40
835	Free energy of liquid water from a computer simulation via cell theory. 2007 , 126, 064504		62
834	Pressure and temperature dependence of hydrophobic hydration: volumetric, compressibility, and thermodynamic signatures. 2007 , 126, 114507		43
833	Two-component heterogeneous nucleation kinetics and an application to Mars. 2007 , 127, 134710		24
832	The anomalous behavior of the density of water in the range 30 K 2007, 104, 18387-91		185
831	Dissolved organic matter in abyssal sediments: Core recovery artifacts. 2007 , 52, 19-31		29
830	Alkali elements (Na, K, Rb) and alkaline earth elements (Mg, Ca, Sr, Ba) in the anoxic brine of Orca Basin, northern Gulf of Mexico. 2007 , 243, 255-274		22
829	Liquid-Liquid equilibria of aqueous two-phase systems containing polyvinylpyrrolidone and tripotassium phosphate or dipotassium hydrogen phosphate: Experiment and correlation. 2007 , 31, 553-559		43
828	Using heat capacity and compressibility to choose among two-state models of liquid water. 2007 , 111, 13398-403		11
827	Factors affecting ionic liquids based removal of anionic dyes from water. 2007 , 41, 5090-5		103
826	Liquid-Liquid Equilibria of Aqueous Two-Phase Systems Containing 1-Butyl-3-methylimidazolium Bromide and Potassium Phosphate or Dipotassium Hydrogen Phosphate at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1686-1692	2.8	98
825	Quantum effects in liquid water from an ab initio-based polarizable force field. 2007 , 127, 074506		142
824	The selection of water property formulae for volume and flow calibration. 2007 , 44, 453-463		11
823	Consequences of chain networks on thermodynamic, dielectric and structural properties for liquid water. 2007 , 9, 83-91		34
822	Volumetric and Ultrasonic Studies of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate Ionic Liquid with Methanol, Ethanol, 1-Propanol, and Water at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1468-1482	2.8	159
821	Dynamical Properties of Hydrogen-Bonded Liquids. 2007 , 277-320		37
820	Equilibrium Partitioning of Phenols and Phenyl Amines between [BF ₄] ⁻ Based Ionic Liquids and Aqueous Solution. 2007 , 221, 825-835		9

819	Temperature, pressure, and isotope effects on the structure and properties of liquid water: a lattice approach. 2007 , 127, 224106	29
818	References. 2007 , 287-294	
817	Simple Determination of Segment Numbers for Complex Polymer-Solvent Systems. 2007 , 30, 193-201	4
816	Inline Concentration Monitoring of Binary Liquid Mixtures in the Presence of a Dispersed Gas Phase with a Modified Speed of Sound Immersion Probe. 2007 , 30, 1381-1390	7
815	Enthalpic and volumetric studies of the interactions of butanamide in aqueous alkan-1-ol solutions at 298.15 K. 2007 , 462, 76-79	2
814	Construction of stabilization operators for Galerkin least-squares discretizations of compressible and incompressible flows. 2007 , 196, 2431-2448	8
813	Cavity thermodynamics and surface tension of water. 2007 , 442, 307-310	7
812	Cavity thermodynamics in the Gaussian model of particle density fluctuations. 2007 , 446, 313-316	8
811	Critical temperatures and a critical chain length in saturated diacylphosphatidylcholines: calorimetric, ultrasonic and Monte Carlo simulation study of chain-melting/ordering in aqueous lipid dispersions. 2007 , 150, 217-28	15
810	Vapor-liquid equilibria of binary tri-potassium citrate+water and ternary polypropylene oxide 400+tri-potassium citrate+water systems from isopiestic measurements over a range of temperatures. 2007 , 255, 46-54	30
809	Extension of the electrolyte NRTL and Wilson models for correlation of viscosity of strong electrolyte solutions at different temperatures. 2007 , 259, 157-164	14
808	Measurement and correlation of vapor-liquid equilibria of the aqueous poly(ethylene glycol) + sodium citrate and poly(ethylene glycol) + potassium citrate systems. 2007 , 262, 137-148	12
807	Activation parameters of viscous flow of cyclohexylsulfamic acid in aqueous solution. 2007 , 131-132, 87-94	3
806	The interplay of phase inversion and membrane formation in the drug release characteristics of a membrane-based delivery system. 2007 , 298, 156-168	30
805	Density and energy distribution in water and organic solvents: A molecular dynamics study. 2007 , 136, 199-205	4
804	Time-resolved Thermodynamic Changes Photoinduced in 5,12-trans-locked Bacteriorhodopsin. Evidence that Retinal Isomerization is Required for Protein Activation¶. 2007 , 72, 590-597	
803	Structural and thermodynamic characteristics and intermolecular interactions in aqueous solutions of diols. 2007 , 48, 1089-1098	4
802	Thermodynamic Properties of Aqueous Electrolyte Solutions. Compressibility Studies in 0.1, 0.5 and 1.0 mol/kg¶ Lithium Chloride Solutions at Temperatures from 278.15 to 323.15 K. 2007 , 36, 1437-1456	10

801	Thermodynamics of mixtures involving some (benzene derivatives+benzonitrile). 2007 , 39, 561-567	15
800	Effect of temperature on mixing thermodynamics of a new ionic liquid: {2-Hydroxy ethylammonium formate (2-HEAF) + short hydroxylic solvents}. 2008 , 40, 119-133	76
799	Water's surface tension and cavity thermodynamics. 2008 , 91, 73-77	8
798	Calorimetric and Volumetric Studies of the Interactions of Propionamide in Aqueous Alkan-1-ol Solutions at 298.15 K. 2008 , 37, 35-44	7
797	Determination of water density: limitations at the uncertainty level of 1 $\times 10^{-6}$. 2008 , 13, 587-591	17
796	The Equation of State for Caspian Sea Waters. 2008 , 14, 289-299	5
795	Thermodynamisches Modell zum Fest/flüssig-Phasenübergang von Substanzen hohen molaren Volumens. 2008 , 80, 1185-1192	2
794	Multiple phases of liquid water. 2008 , 9, 2660-75	92
793	Isentropic compressibilities of (amide+water) mixtures: A comparative study. 2008 , 40, 107-118	90
792	Psychrometric charts for water vapour in natural gas. 2008 , 61, 1-8	3
791	Hydrophobicity in modified water models. 2008 , 452, 259-263	10
790	On the superhydrophobicity of tetrafluoromethane. 2008 , 460, 470-473	10
789	Partial molar volumes and adiabatic compressibilities of unfolded protein states. 2008 , 134, 185-99	42
788	Measurement of water activities of alanine+tri-potassium citrate+water system at temperatures between 293.15 and 313K Experimental and modeling. 2008 , 267, 61-69	14
787	Phase diagrams for liquid-liquid equilibrium of ternary poly(ethylene glycol)+di-sodium tartrate aqueous system and vapor-liquid equilibrium of constituting binary aqueous systems at T=(298.15, 308.15, and 318.15)K. 2008 , 268, 142-152	56
786	Temperature dependences of the diffusion and kinetic parameters of potassium tellurite solutions in ordinary and heavy water. 2008 , 137, 138-146	2
785	Transport properties of supercooled confined water. 2008 , 161, 19-33	32
784	Molecular Dynamics Simulation of Thermomechanical Properties of Montmorillonite Crystal. II. Hydrated Montmorillonite Crystal. 2008 , 112, 17056-17062	33

783	Side-chain dynamics are critical for water permeation through aquaporin-1. 2008 , 95, 1089-98		22
782	Understanding Water Adsorption in CuBTC Metal-Organic Frameworks. 2008 , 112, 15934-15939		159
781	Volumetric properties of the glycyl group of proteins in aqueous solution at high pressures. 2008 , 10, 884-97		18
780	On the residence time for water in a solute hydration shell: application to aqueous halide solutions. 2008 , 112, 7697-701		131
779	Structural and thermodynamic properties of different phases of supercooled liquid water. 2008 , 128, 244503		28
778	Formation of ice-like water structure on the surface of an antifreeze protein. 2008 , 112, 6193-202		77
777	Development of transferable interaction potentials for water. V. Extension of the flexible, polarizable, Thole-type model potential (TTM3-F, v. 3.0) to describe the vibrational spectra of water clusters and liquid water. 2008 , 128, 074506		303
776	Clustering dynamics in water/methanol mixtures: a nuclear magnetic resonance study at 205 K. 2008 , 112, 10449-54		70
775	Structure of the nucleocapsid-binding domain from the mumps virus polymerase; an example of protein folding induced by crystallization. 2008 , 379, 719-31		44
774	An approach of NMR relaxometry for understanding water in saturated compacted bentonite. 2008 , 33, S169-S176		24
773	Recovery of Furfural from Aqueous Solution by Ionic Liquid Based Liquid-Liquid Extraction. 2008 , 43, 2090-2102		33
772	The effect of composition on the density of Indian Ocean waters. 2008 , 55, 460-470		24
771	Vapor-Liquid Equilibria, Density, Speed of Sound, and Viscosity of Aqueous Dipotassium Tartrate Solutions at T = (298.15, 308.15, and 318.15) K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1000-1006	2.8	11
770	Isentropic expansion and related thermodynamic properties of non-ionic amphiphile-water mixtures. 2008 , 10, 561-73		16
769	On the molecular mechanism of water reorientation. 2008 , 112, 14230-42		335
768	Dielectric relaxation of aqueous solutions of hydrophilic versus amphiphilic peptides. 2008 , 112, 179-86		35
767	Densities of the NaNO ₃ + NaCl + H ₂ O and NaNO ₃ + KCl + H ₂ O Systems and Their Correlation with the Pitzer Model. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2902-2906	2.8	1
766	Volumetric and Viscometric Studies of Some Metal Acetates in Aqueous Solutions at T = (288.15 to 318.15) K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2758-2765	2.8	12

765	Volumetric and Viscosity Properties of MgSO ₄ /CuSO ₄ in Sucrose + Water Solutions at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2022-2028	2.8	20
764	Room temperature ionic liquids containing low water concentrations-a molecular dynamics study. 2008 , 10, 4240-8		82
763	Effect of Sodium Sulphate on the Volumetric, Rheological and Refractometric Properties of some Disaccharides in Aqueous Solutions at Different Temperatures. 2008 , 222, 177-204		21
762	The density of seawater as a function of salinity (5 to 70 g kg ⁻¹) and temperature (273.15 to 363.15 K). 2009 , 5, 91-100		72
761	Thermodynamic properties of standard seawater: extensions to high temperatures and pressures. 2009 , 5, 235-246		63
760	Quantum effects in water: proton kinetic energy maxima in stable and supercooled liquid. 2009 , 39, 318-321		25
759	Re-Evaluation of the Thermodynamic Activity Quantities in Aqueous Lithium Chloride Solutions at 25 °C up to a Molality of 6.0 mol/kg. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 882-889	2.8	26
758	Liquid water. 2009 ,		33
757	The effect of resin composite pre-heating on monomer conversion and polymerization shrinkage. 2009 , 25, 514-9		56
756	Role of hydrophobic effect in the salt-induced dimerization of bovine beta-lactoglobulin at pH 3. 2009 , 91, 1182-8		3
755	Thermodynamic and Kinetic Properties of Natural Brines. 2009 , 15, 7-41		14
754	Effect of KCl and KNO ₃ on Partial Molal Volumes and Partial Molal Compressibilities of Some Amino Acids at Different Temperatures. 2009 , 30, 475-489		18
753	LCST demixing in poly(vinyl methyl ether)/water studied by means of a High Resolution Ultrasonic Resonator. 2009 , 98, 495-505		5
752	Transfer Volumes of Small Peptides from Water to Aqueous Xylitol Solutions at 298.15 K. 2009 , 38, 383-389		9
751	Interactions in l-alanine/l-proline/l-valine/l-leucine aqueous KCl/KNO ₃ systems at different temperatures: An isentropic compressibility study. 2009 , 483, 45-48		12
750	Studies on volumetric properties of some saccharides in aqueous potassium chloride solutions over temperature range (288.15 to 318.15)K. 2009 , 41, 452-483		63
749	The effect of composition on the density of South Pacific Ocean waters. 2009 , 114, 56-62		19
748	Hydration entropy of polar, nonpolar and charged species. 2009 , 479, 56-59		27

747	On the Salting Out of Benzene by Alkali Chlorides <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 464-467	2.8	18
746	Ultrasonic Velocities and Densities of L-Histidine or L-Glutamic Acid or L-Tryptophan or Glycylglycine + 2 mol/L Aqueous KCl or KNO ₃ Solutions from (298.15 to 323.15) K. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 3133-3139	2.8	15
745	Re-Evaluation of the Thermodynamic Activity Quantities in Aqueous Sodium and Potassium Chloride Solutions at 25 °C. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 208-219	2.8	38
744	Conductivities of CuSO ₄ and CdSO ₄ in Sucrose/Trehalose/Water Systems at 298.15 K. 2009 , 48, 6432-6435		2
743	Dimerization thermodynamics of large hydrophobic plates: a scaled particle theory study. 2009 , 113, 11232-9		62
742	Investigating hydroxide anion interfacial activity by classical and multistate empirical valence bond molecular dynamics simulations. 2009 , 113, 6356-64		44
741	Thermodynamic Properties of the Geothermal Resources (Khachmaz and Sabir-Oba) of Azerbaijan. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1799-1806	2.8	20
740	Thermodynamic Properties of Aqueous Electrolyte Solutions. Volumetric and Compressibility Studies in 0.1 mol/kg, 0.5 mol/kg, and 1.0 mol/kg Sodium Carbonate and Sodium Sulfate Solutions at Temperatures from 278.15 K to 323.15 K <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2556-2561	2.8	9
739	Interactions of sodium halides with sugars in water: a study of viscosity and (1)H spin-lattice relaxation time. 2009 , 113, 13638-44		9
738	Dynamics and structure of Ln(III)-aqua ions: a comparative molecular dynamics study using ab initio based flexible and polarizable model potentials. 2009 , 113, 7270-81		59
737	Anomalies in water as obtained from computer simulations of the TIP4P/2005 model: density maxima, and density, isothermal compressibility and heat capacity minima. 2009 , 107, 365-374		131
736	Pressure dependence of the large-scale structure of water. 2009 , 131, 194502		15
735	Three-dimensional "Mercedes-Benz" model for water. 2009 , 131, 054505		52
734	Interfacial Tension and Density of Water + Branched Hydrocarbon Binary Systems in the Range 303-43 K. 2009 , 48, 1476-1483		22
733	Modeling of the Mixed Solvent Electrolyte System CO ₂ /Na ₂ CO ₃ /NaHCO ₃ /Monoethylene Glycol/Water. 2009 , 48, 4565-4578		17
732	Procedures for determining acoustical physical constants of class 6mm single crystals by ultrasonic microspectroscopy technology. 2009 , 105, 114913		5
731	High temperature end of the so-called "Koga line": anomalies in temperature derivatives of heat capacities. 2009 , 113, 5885-90		15
730	Density of water: roles of the CIPM and IAPWS standards. 2009 , 46, 196-198		17

729	Calculating density of water in geochemical lake stratification models. 2010 , 8, 567-574	19
728	On the partitioning of benzene between water and n-alkanes. 2010 , 486, 44-47	3
727	Re-evaluation of the thermodynamic activity quantities in aqueous alkali metal nitrate solutions at T= 298.15 K. 2010 , 42, 1485-1493	18
726	Osmotic coefficients of aqueous solutions of potassium acesulfame, sodium saccharin, and ammonium and tetramethylammonium cyclohexylsulfamates at the freezing point of solutions. 2010 , 141, 149-155	1
725	Volumetric properties of aqueous solutions of quinic acid and its sodium salt. 2010 , 141, 1055-1062	2
724	SoluteSolvent Interactions of Amino Acids in Aqueous 1-Propyl-3-Methylimidazolium Bromide Ionic Liquid Solutions at 298.15 K. 2010 , 39, 1409-1427	45
723	Refractive index of liquid mixtures: theory and experiment. 2010 , 11, 3722-33	133
722	Solution Densities of Aqueous Al ₂ (SO ₄) ₃ From 50 to 70°C. 2010 , 95, 675-676	
721	Temperature effects on the hydrophobic interaction of parallel plates in the framework of the probabilistic approach to hydrogen bonding. 2010 , 343, 510-21	4
720	Thermodynamic investigation of the systems poly(ethylene glycol) + sodium pentane-1-sulfonate + water and poly(vinyl pyrrolidone) + sodium pentane-1-sulfonate + water. 2010 , 346, 107-17	6
719	Effect of sodium acetate on the volumetric behaviour of some mono-, di-, and tri-saccharides in aqueous solutions over temperature range (288.15 to 318.15) K. 2010 , 42, 90-103	54
718	Thermodynamic properties of peptide solutions 19. Partial molar isothermal compressions at T=298.15K of some peptides of sequence gly-X-gly in aqueous solution. 2010 , 42, 208-212	9
717	Effect of temperature on volumetric and isentropic compressibility of glycine in aqueous KCl/NaCl solutions. 2010 , 152, 57-62	14
716	Temperature dependence of molecular structure of dissolved glycine as revealed by ATR-IR spectroscopy. 2010 , 981, 179-186	6
715	Study of interactions of l-histidine/l-glutamic acid/l-tryptophan/glycylglycine with KCl/KNO ₃ at different temperatures: 298.15, 303.15, 308.15, 313.15, 318.15, 323.15K. 2010 , 501, 72-77	18
714	On the pairwise hydrophobic interaction of fullerene. 2010 , 499, 79-82	24
713	Intermolecular interaction in plant oils from refractive and density measurements. 2010 , 109, 932-937	2
712	Konzentrationsbestimmung in Wasser-Zucker-Ethanol-Gemischen mittels adiabatischer Kompressibilität und Dichte Concentration Determination in Water-Sugar-Ethanol-Mixtures via Adiabatic Compressibility and Density. 2010 , 77, 30-37	3

711	A Reactive Molecular Dynamics Algorithm for Proton Transport in Aqueous Systems. 2010 , 114, 11965-11976	26
710	Vapor Pressure Measurements of NaHCOO + H ₂ O and KHCOO + H ₂ O from 278 to 308 K and Representation with an Ion Interaction (Pitzer) Model. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 830-838	2.8 20
709	Toward an understanding of the salting-out effects in aqueous ionic liquid solutions: vapor-liquid equilibria, liquid-liquid equilibria, volumetric, compressibility, and conductivity behavior. 2010 , 114, 16528-41	48
708	Densities, Viscosities, Electrical Conductances, and Refractive Indices of Amino Acid + Ionic Liquid ([BMIm]Br) + Water Mixtures at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2517-2523	2.8 54
707	Volumetric Behavior on Interactions of α -Amino Acids with Sodium Acetate, Potassium Acetate, and Calcium Acetate in Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2930-2934	2.8 39
706	Vapor-Liquid Equilibria, Density, Speed of Sound, and Refractive Index of Sodium Tungstate in Water and in Aqueous Solutions of Poly(ethyleneglycol) 6000. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 125-133	2.8 7
705	Osmotic and Activity Coefficient of 1-Ethyl-3-methylimidazolium Bromide in Aqueous Solutions of Potassium Dihydrogen Phosphate, Dipotassium Hydrogen Phosphate, and Tripotassium Phosphate at T = 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5182-5190	2.8 22
704	Another Coarse Grain Model for Aqueous Solvation: WAT FOUR?. 2010 , 6, 3793-3807	90
703	Water Activity Measurement for Alanine + Dipotassium Oxalate + Water and the Corresponding Binary Solutions at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5219-5224	2.8 5
702	Vapor-Liquid Equilibria, Density, and Speed of Sound of Aqueous Solutions of Sodium Dihydrogen Citrate or Disodium Hydrogen Citrate. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5874-5882	2.8 13
701	Re-Evaluation of the Thermodynamic Activity Quantities in Aqueous Rubidium and Cesium Chloride Solutions at 25 °C. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 249-257	2.8 31
700	Re-evaluation of the Thermodynamic Activity Quantities in Aqueous Alkali Metal Iodide Solutions at 25 °C. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 3708-3719	2.8 22
699	Ultrasonic Velocities and Densities of L-Phenylalanine, L-Leucine, L-Glutamic Acid, and L-Proline + 2 mol/L Aqueous NaCl and 2 mol/L Aqueous NaNO ₃ Solutions from (298.15 to 328.15) K. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2643-2648	2.8 11
698	Sound velocities and thermodynamic properties of water to 700 MPa and -10 to 100 degrees C. 2010 , 127, 174-80	27
697	Proton transport in water confined in carbon nanotubes: a reactive molecular dynamics study. 2010 , 36, 568-578	18
696	Solvation theory to provide a molecular interpretation of the hydrophobic entropy loss of noble-gas hydration. 2010 , 22, 284108	20
695	Partial molal volumes and compressibilities of phosphoric acid and sodium phosphates in 0.725 molal NaCl at 25 °C. 2010 , 114, 16099-104	8
694	Thermodynamic Functions Derived from Activity Coefficients. 2010 , 552-574	

693	Re-Evaluation of the Thermodynamic Activity Quantities in Aqueous Alkali Metal Bromide Solutions at 25 °C. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2202-2213	2.8	22
692	Entropic trends in aqueous solutions of the common functional groups. 2010 , 145, 467-485		21
691	Chapter 10:Speed-of-Sound Measurements and Heat Capacities of Liquid Systems at High Pressure. 2010 , 218-237		6
690	On the molecular origin of cold denaturation of globular proteins. 2010 , 12, 14245-52		67
689	Contrasting the denaturing effect of guanidinium chloride with the stabilizing effect of guanidinium sulfate. 2011 , 13, 12008-14		48
688	How does trimethylamine N-oxide counteract the denaturing activity of urea?. 2011 , 13, 17689-95		51
687	Maxwell-Stefan diffusivities in binary mixtures of ionic liquids with dimethyl sulfoxide (DMSO) and H ₂ O. 2011 , 115, 8506-17		29
686	Water Activities in Binary and Ternary Aqueous Systems of Poly(ethylene glycol) Dimethyl Ether 2000 and Poly(propylene glycol) 400 at T= (298.15, 308.15, and 318.15) K. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 3567-3576	2.8	12
685	Re-evaluation of the Thermodynamic Activity Quantities in Aqueous Solutions of Silver Nitrate, Alkali Metal Fluorides and Nitrites, and Dihydrogen Phosphate, Dihydrogen Arsenate, and Thiocyanate Salts with Sodium and Potassium Ions at 25 °C. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2044-2062	2.8	25
684	Solubility of Ethene in Water and in a Medium for the Cultivation of a Bacterial Strain. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 1596-1601	2.8	4
683	Partial Molar Isentropic and Isothermal Compressions of the Nucleosides Adenosine, Cytidine, and Uridine in Aqueous Solution at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2266-2272	2.8	12
682	Interactions of 1-butyl-3-methylimidazolium carboxylate ionic liquids with glucose in water: a study of volumetric properties, viscosity, conductivity and NMR. 2011 , 13, 14542-9		47
681	A non-polarizable model of water that yields the dielectric constant and the density anomalies of the liquid: TIP4Q. 2011 , 13, 19728-40		38
680	Thermodynamic, dynamic, structural, and excess entropy anomalies for core-softened potentials. 2011 , 135, 104507		16
679	Density fluctuations in liquid water. 2011 , 106, 037801		58
678	Densities and apparent molar volumes of atmospherically important electrolyte solutions. 2. The systems H(+)-HSO ₄ (-)-SO ₄ (2-)-H ₂ O from 0 to 3 mol kg ⁻¹ as a function of temperature and H(+)-NH ₄ (+)-HSO ₄ (-)-SO ₄ (2-)-H ₂ O from 0 to 6 mol kg ⁻¹ at 25 °C using a Pitzer ion interaction		28
677	Computation of methodology-independent single-ion solvation properties from molecular simulations. III. Correction terms for the solvation free energies, enthalpies, entropies, heat capacities, volumes, compressibilities, and expansivities of solvated ions. 2011 , 134, 144103		60
676	References. 557-640		

675	Re-evaluation of the Thermodynamic Activity Quantities in Aqueous Solutions of Uni-univalent Alkali Metal Salts of Aliphatic Carboxylic Acids and Thallium Acetate at 25 °C. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4524-4543	2.8	18
674	New local composition model for modeling of thermodynamic and transport properties of binary aqueous electrolyte solutions. 2011 , 35, 109-132		6
673	Osmotic and activity coefficient of 1-ethyl-3-methylimidazolium chloride in aqueous solutions of tri-potassium phosphate, potassium carbonate, and potassium chloride at T=298.15K. 2011 , 35, 331-341		13
672	The effect of pressure on transition metals in seawater. 2011 , 58, 298-305		4
671	Why Do Objects Cool More Rapidly in Water Than in Still Air?. 2011 , 49, 550-553		3
670	Densities and apparent molar volumes of atmospherically important electrolyte solutions. 1. The solutes H ₂ SO ₄ , HNO ₃ , HCl, Na ₂ SO ₄ , NaNO ₃ , NaCl, (NH ₄) ₂ SO ₄ , NH ₄ NO ₃ , and NH ₄ Cl from 0 to 50 °C, including extrapolations to very low temperature and to the pure liquid state, and NaHSO ₄ , NaOH, and NH ₃ at 25 °C. 2011 , 115, 3333-3350		75
669	Bibliography. 2011 , 301-362		
668	Apparent molar volumes and transport behavior of glycine and l-valine in aqueous solutions of tripotassium citrate at T = (308.15 and 318.15) K. 2011 , 162, 89-94		39
667	The partial molar heat capacity, expansion, isentropic, and isothermal compressions of thymidine in aqueous solution at T=298.15K. 2011 , 43, 1936-1941		10
666	The compressibility of seawater from 0 to 95 °C at 1 atm. 2011 , 126, 149-154		18
665	On the solubility of long n-alkanes in water at room temperature. 2011 , 511, 262-265		8
664	Effective solvent mediated potentials of Na ⁺ and Cl ⁻ ions in aqueous solution: temperature dependence. 2011 , 13, 5722-7		30
663	Vapor-Liquid Equilibria of Aqueous Polymer Solutions from Vapor-Pressure Osmometry and Isopiestic Measurements. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 789-799	2.8	51
662	Spatial correlations of density and structural fluctuations in liquid water: a comparative simulation study. 2011 , 133, 1391-8		77
661	The Effects of Charge Transfer Interactions on the Properties of Ice Ih. 2011 , 145, 355-364		3
660	Effect of Dissolved Organic Carbon and Alkalinity on the Density of Arctic Ocean Waters. 2011 , 17, 311-326		12
659	An Equation of State for Hypersaline Water in Great Salt Lake, Utah, USA. 2011 , 17, 809-820		24
658	Thermodynamics of the ternary systems: (water + glycine, l-alanine and l-serine + di-ammonium hydrogen citrate) from volumetric, compressibility, and (vapour + liquid) equilibria measurements. 2011 , 43, 200-215		67

657	Pressure-volume-temperature measurements of phosphonium-based ionic liquids and analysis with simple equations of state. 2011 , 43, 914-929	41
656	Cold unfolding of α -hairpins: a molecular-level rationalization. 2011 , 79, 1739-46	13
655	On the salting in effect of tetraalkylammonium bromides. 2011 , 505, 26-30	7
654	Theoretical and experimental study of hydrogen bonded liquids with water as an example. 2011 , 158, 80-91	2
653	Kinetic energy of protons in ice Ih and water: A path integral study. 2011 , 84,	32
652	Prediction and interpretation of the hydration entropies of monovalent cations and anions. 2011 , 109, 37-48	23
651	Robust three-body water simulation model. 2011 , 134, 184501	105
650	Computation of methodology-independent single-ion solvation properties from molecular simulations. IV. Optimized Lennard-Jones interaction parameter sets for the alkali and halide ions in water. 2011 , 134, 144104	117
649	Entropy and enthalpy convergence of hydrophobic solvation beyond the hard-sphere limit. 2011 , 134, 055105	29
648	The effects of charge transfer on the properties of liquid water. 2011 , 134, 184507	89
647	How intermolecular charge transfer influences the air-water interface. 2012 , 137, 154701	23
646	Hydronium Behavior at the Air-Water Interface with a Polarizable Multistate Empirical Valence Bond Model. 2012 , 116, 4026-4038	28
645	Water structure-forming capabilities are temperature shifted for different models. 2012 , 116, 7538-43	12
644	Effect of NaCl and NaNO ₃ on the Partial Molar Volumes and Partial Molar Isentropic Compressibilities of Some Amino Acids at Several Different Temperatures (298.15-328.15) K. 2012 , 41, 1144-1155	8
643	Wall function model for particulate fouling applying XDLVO theory. 2012 , 84, 57-69	25
642	On the effect of low concentrations of alcohols on the conformational stability of globular proteins. 2012 , 14, 2769-73	6
641	Solubility of Barite up to 250 °C and 1500 bar in up to 6 m NaCl Solution. 2012 , 51, 3119-3128	31
640	Water model tuning for improved reproduction of rotational diffusion and NMR spectral density. 2012 , 116, 6279-87	57

639	Interactions in l-histidine/l-glutamic acid/l-tryptophan/glycylglycine + 2 mol L ⁻¹ aqueous KCl/KNO ₃ systems at different temperatures: An isothermal compressibility study. 2012 , 543, 313-317		6
638	Mean Activity Coefficients and Osmotic Coefficients in Aqueous Solutions of Salts of Ammonium Ions with Univalent Anions at 25 °C. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2654-2666	2.8	17
637	How does sucrose stabilize the native state of globular proteins?. 2012 , 50, 230-5		28
636	(p,T) properties of seawater: Extensions to high salinities. 2012 , 65, 146-156		13
635	Effect of pressure on the dissociation constant of boric acid in water and seawater. 2012 , 76, 83-92		10
634	Volumetric and Acoustic Properties of Aqueous Solutions of Trifluoromethanesulfonate-Based Ionic Liquids at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1953-1963	2.8	44
633	Traceable Mean Activity Coefficients and Osmotic Coefficients in Aqueous Calcium Chloride Solutions at 25 °C up to a Molality of 3.0 mol/kg. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3247-3257	2.8	15
632	On the absolute thermodynamics of water from computer simulations: a comparison of first-principles molecular dynamics, reactive and empirical force fields. 2012 , 137, 244507		51
631	Simple liquid models with corrected dielectric constants. 2012 , 116, 6936-44		54
630	IUPAC-NIST Solubility Data Series. 95. Alkaline Earth Carbonates in Aqueous Systems. Part 1. Introduction, Be and Mg. 2012 , 41, 013105-013105-67		31
629	Vapour-liquid equilibrium of ternary aqueous polymer solutions containing polyethylene glycol and polyethylene glycol dimethyl ether at different temperatures. 2012 , 38, 127-132		5
628	Mixing properties of sphingomyelin ceramide bilayers: a simulation study. 2012 , 116, 4500-9		28
627	The speed of sound and derived thermodynamic properties of pure water at temperatures between (253 and 473) K and at pressures up to 400 MPa. 2012 , 136, 094511		62
626	On the effect of trimethylamine N-oxide on the conformational equilibrium of the chaperone Hsp90. 2012 , 546, 141-143		1
625	Interactions in L-phenylalanine/L-leucine/L-glutamic Acid/L-proline + 2 M aqueous NaCl/2 M NaNO ₃ systems at different temperatures. 2012 , 86, 2076-2085		
624	A singular thermodynamically consistent temperature at the origin of the anomalous behavior of liquid water. 2012 , 2, 993		71
623	A rationale for the contrasting activity (towards globular proteins) of tert-butyl alcohol and trimethylamine N-oxide. 2012 , 14, 13088-94		14
622	Charge hydration asymmetry: the basic principle and how to use it to test and improve water models. 2012 , 116, 9776-83		68

621	Predictive Method for the Change in Equilibrium Conditions of Gas Hydrates with Addition of Inhibitors and Electrolytes. 2012 , 51, 2456-2469		25
620	Conductivities of 1-alkyl-3-methylimidazolium chloride ionic liquids in monosaccharide + water solutions at 298.15 K. 2012 , 316, 164-171		17
619	Ultrasonic study of the gelation of gelatin: Phase diagram, hysteresis and kinetics. 2012 , 26, 99-107		46
618	Thermodynamic properties of electrolyte solutions. Compressibility studies in aqueous solutions of uranyl nitrate. 2012 , 47, 420-427		2
617	A new aqueous biphasic system containing polypropylene glycol and a water-miscible ionic liquid. 2012 , 28, 146-56		71
616	Re-evaluation of the Thermodynamic Activity Quantities in Pure Aqueous Solutions of Chlorate, Perchlorate, and Bromate Salts of Lithium, Sodium or Potassium Ions at 298.15 K. 2012 , 41, 271-293		19
615	Modeling the Density and Isentropic Compressibility of Seawater. 2013 , 42, 303-316		2
614	Re-evaluation of Activity Coefficients in Dilute Aqueous Hydrobromic and Hydriodic Acid Solutions at Temperatures from 0 to 60 °C. 2013 , 42, 190-210		13
613	Correlation of structural order, anomalous density, and hydrogen bonding network of liquid water. 2013 , 117, 8831-43		36
612	Systematic improvement of a classical molecular model of water. 2013 , 117, 9956-72		235
611	Volumetric and Viscometric Studies on Saccharide-Disodium Tetraborate (Borax) Interactions in Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2355-2374	2.8	22
610	Volumetric properties of the nucleosides adenosine, cytidine, and uridine in aqueous solution at T=298.15K and p=(10 to 120)MPa. 2013 , 61, 117-125		13
609	Transferable mixing of atomistic and coarse-grained water models. 2013 , 117, 14438-48		36
608	Effect of attractive interactions on the water-like anomalies of a core-softened model potential. 2013 , 139, 244505		10
607	Development of a flexible microfluidic system based on a simple and reproducible sealing process between polymers and poly(dimethylsiloxane). 2013 , 111, 332-338		14
606	Molecular interaction, co-solubilization of organic pollutants and ecotoxicity of a potential carcinogenic fuel additive MTBE in water. 2013 , 180, 235-243		7
605	Comment on "The application of the thermodynamic perturbation theory to study the hydrophobic hydration" [J. Chem. Phys. 139, 024101 (2013)]. 2013 , 139, 127101		2
604	Re-evaluation of the Mean Activity Coefficients of Strontium Chloride in Dilute Aqueous Solutions from (10 to 60) °C and at 25 °C up to the Saturated Solution Where the Molality Is 3.520 mol/kg. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2738-2747	2.8	14

603	The thermodynamical response functions and the origin of the anomalous behavior of liquid water. 2013 , 167, 95-108	31
602	Solvation thermodynamics of xylitol in water and in aqueous amino acids at 298.15 K. 2013 , 26, 54-58	8
601	Molal volumes and compressibilities of salts in seawater. 2013 , 104, 19-28	9
600	The study of vapor-liquid equilibria of 1-ethyl-3-methyl imidazolium chloride and 1-butyl-3-methyl imidazolium chloride in lithium bromide aqueous solutions and their corresponding binary systems at 298.15K.. 2013 , 40, 16-23	17
599	Quantum mechanical force field for water with explicit electronic polarization. 2013 , 139, 054503	31
598	On the ability of trehalose to offset the denaturing activity of urea. 2013 , 556, 292-296	6
597	(p,T) Properties of seawater at brackish salinities: Extensions to high temperatures and pressures. 2013 , 78, 95-101	10
596	Multiple liquid-liquid critical points and density anomaly in core-softened potentials. 2013 , 87,	16
595	Molecular dynamics of water in the neighborhood of aquaporins. 2013 , 42, 223-39	16
594	Thermodynamic properties of liquid water from a polarizable intermolecular potential. 2013 , 138, 044503	15
593	Six-site polarizable model of water based on the classical Drude oscillator. 2013 , 138, 034508	92
592	High-frequency propagating density fluctuations in deeply supercooled water: evidence of a single viscous relaxation. 2013 , 87, 022303	3
591	On the magnitude of border thickness in the partial molar volume of cavities in water. 2013 , 570, 46-49	8
590	On the signature of the hydrophobic effect at a single molecule level. 2013 , 15, 7389-95	2
589	Ultrafast librational relaxation of H ₂ O in liquid water. 2013 , 117, 4541-52	30
588	High longitudinal relaxivity of ultra-small gadolinium oxide prepared by microsecond laser ablation in diethylene glycol. 2013 , 113, 164306	26
587	Thermodynamic properties of aqueous solutions with citrate ions. Compressibility studies in aqueous solutions of citric acid. 2013 , 64, 14-21	5
586	Experimental system for real-time assessment of potential changes in protein conformation induced by electromagnetic fields. 2013 , 34, 419-28	4

- 585 Apparent Molal Volumes of Aqueous Rare Earth Salts Fit to the Pitzer Equation. *Journal of Chemical & Engineering Data*, **2013**, 58, 1833-1838 2.8 5
- 584 Traceable mean activity coefficients and osmotic coefficients in aqueous magnesium chloride solutions at T = 298.15 K up to a molality of 3.0 mol kg⁻¹. **2013**, 66, 65-70 10
- 583 Transport and Dynamics in Supercooled Confined Water. **2013**, 203-262 9
- 582 Monte Carlo calculation of the thermodynamic properties of water. **2013**, 54, 221-232 6
- 581 Relation between occupation in the first coordination shells and Widom line in core-softened potentials. **2013**, 138, 164502 7
- 580 The possible use of combined electrical impedance and ultrasound velocity measurements for the non-invasive measurement of temperature during mild hyperthermia. **2013**, 34, 1103-22 4
- 579 Application of the fluid-structure interaction technique for the analysis of hydrodynamic lubrication problems. **2013**, 227, 888-897 16
- 578 Possible relation of water structural relaxation to water anomalies. **2013**, 110, 4899-904 53
- 577 Anomalies in a waterlike model confined between plates. **2013**, 138, 084505 49
- 576 Understanding the Thermo-Hydro-Mechanical Pressurization in Two-Phase (Steam/Water) Flow and its Application in Low-Perm Caprock Formations in SAGD Projects. **2013**, 1 1
- 575 Revisiting a many-body model for water based on a single polarizable site: from gas phase clusters to liquid and air/liquid water systems. **2013**, 139, 114502 21
- 574 Evolution of the Elastic Properties of an Oilwell Cement Paste at Very Early Age under Downhole Conditions: Characterization and Modelling. **2013**, 68, 595-612 7
- 573 Why do tetrapropylammonium chloride and sulphate salts destabilize the native state of globular proteins?. **2014**, 2014, 870106
- 572 References. 727-766
- 571 Gas General. **2014**, 301-332
- 570 Temperature-density hysteresis in X-ray CT during HIFU thermal ablation: heating and cooling phantom study. **2014**, 30, 27-35 14
- 569 The structure of water around the compressibility minimum. **2014**, 141, 214507 94
- 568 Extinction properties of ultrapure water down to deep ultraviolet wavelengths. **2014**, 4, 1932 12

567	Model of waterlike fluid under confinement for hydrophobic and hydrophilic particle-plate interaction potentials. 2014 , 89, 012110	38
566	Hydrostatic pressure effect on hydrophobic hydration and pairwise hydrophobic interaction of methane. 2014 , 140, 094503	15
565	Enhanced flow of core-softened fluids through narrow nanotubes. 2014 , 140, 194504	22
564	WITHDRAWN: Vapor-Liquid equilibria and volumetric properties of ionic liquid, 1-Ethyl-3-methyl imidazolium Chloride in Lithium Chloride aqueous solutions at different temperatures. 2014 ,	
563	High pressure induced phase transition and superdiffusion in anomalous fluid confined in flexible nanopores. 2014 , 141, 144502	14
562	Estimating absolute salinity (SA) in the world's oceans using density and composition. 2014 , 93, 14-20	10
561	A scaled-ionic-charge simulation model that reproduces enhanced and suppressed water diffusion in aqueous salt solutions. 2014 , 141, 104507	83
560	STRUCTURE AND DYNAMICS OF COLD WATER SUPER-EARTHS: THE CASE OF OCCLUDED CH ₄ AND ITS OUTGASSING. 2014 , 792, 125	22
559	Balances for Special Applications. 2014 , 273-418	
558	Study of thermodynamic properties of L-serine in aqueous 1-carboxymethyl-3-methylimidazolium chloride solutions at 298.15 K. 2014 , 363, 32-40	23
557	Effects of concentration and temperature on molar volumes of L-serine, L-isoleucine, and L-glutamine in aqueous NaCl and NaNO ₃ solutions. 2014 , 88, 52-56	1
556	Influence of Single-Walled Carbon Nanotubes on Thermal Expansion of Water. 2014 , 35, 19-31	20
555	Acoustic wave in a suspension of magnetic nanoparticle with sodium oleate coating. 2014 , 16, 2271	12
554	Thermodynamic equilibrium of the polyethylene glycol 2000 and sulphate salts solutions. 2014 , 69, 125-131	6
553	Phase diagrams for (liquid + liquid) and (liquid + solid) equilibrium of aqueous two-phase system containing {polyvinylpyrrolidone 3500 (PVP3500) + sodium sulfite (Na ₂ SO ₃) + water} at different temperatures. 2014 , 72, 125-133	14
552	Traceable mean activity coefficients of barium chloride in dilute aqueous solutions from T=(273 to 333)K and at T=298.15K up to the saturated solution where the molality is 1.7884mol/kg. 2014 , 75, 128-135	7
551	Equations for calculating hydrogeochemical reactions of minerals and gases such as CO ₂ at high pressures and temperatures. 2014 , 125, 49-67	97
550	Balances. 2014 ,	6

549	Principles of control in dyeing processes. 2014 , 154-205		0
548	A new model for the density of saturated solutions of CO ₂ -H ₂ O-NaCl in saline aquifers. 2014 , 31, 192-204		14
547	Interpretation of different molecular packing in the micelles of lyotropic nematic and cholesteric phases via mass density measurements. 2014 , 200, 354-360		2
546	Pairwise association of neopentane as a function of hydrostatic pressure. 2014 , 616-617, 44-48		2
545	On the mechanism of cold denaturation. 2014 , 16, 21755-67		54
544	Topological analyses and small-world patterns of hydrogen bond networks in water + t-butanol, water + n-butanol and water + ammonia mixtures. 2014 , 16, 19479-91		8
543	Volumetric Properties at High Pressures of the Nucleosides Inosine, 2'-Deoxyinosine, and 2'-Deoxyguanosine and the Volumetric Properties of Guanosine Derived Using Group Additivity Methods. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 3593-3604	2.8	3
542	Thermodynamic properties of bulk and confined water. 2014 , 141, 18C504		29
541	An alternative explanation for the collapse of unfolded proteins in an aqueous mixture of urea and guanidinium chloride. 2014 , 612, 313-317		3
540	Including the Dispersion Attraction into Structure-Adapted Fast Multipole Expansions for MD Simulations. 2014 , 10, 3244-59		7
539	The Properties of Water and Its Anomalies. 2014 , 89-202		1
538	Automated optimization of water-water interaction parameters for a coarse-grained model. 2014 , 118, 1603-11		13
537	Non-polarizable force field of water based on the dielectric constant: TIP4P/ΰ 2014 , 118, 1263-72		74
536	Effects of depth on transport of ¹²⁹ I in crystalline rock. 2014 , 73, 304-316		
535	Effect of 1-carboxymethyl-3-methylimidazolium chloride ionic liquid on thermodynamic and solubility of l-threonine in water at 298.15K and atmospheric pressure. 2014 , 379, 86-95		8
534	Traceable Activity and Osmotic Coefficients in Pure Aqueous Solutions of Alkaline Earth Metal Bromides and Iodides at 25 °C. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 2530-2540	2.8	5
533	Studies on the Interactions of Saccharides and Methyl Glycosides with Lithium Chloride in Aqueous Solutions at (288.15 to 318.15) K. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 2437-2455	2.8	8
532	Surface Phase Transition in Anomalous Fluid in Nanoconfinement. 2014 , 118, 9497-9506		27

531	Volumetric Properties of the Nucleoside Thymidine in Aqueous Solution at T = 298.15 K and p = (10 to 100) MPa. 2014 , 43, 804-820	3
530	Densities, Excess Molar Volumes, and Thermal Expansion Coefficients of Aqueous Aminoethylethanolamine Solutions at Temperatures from 283.15 to 343.15 K. 2014 , 43, 959-971	19
529	Structural interaction leading to volumetric changes in aqueous solutions of nitrates of rubidium, cesium, strontium, yttrium, and gallium at different temperatures. 2014 , 301, 685-694	4
528	Inverse melting in a two-dimensional off-lattice model. 2014 , 140, 144505	6
527	Pressure-Dependent Properties of Elementary Hydrophobic Interactions: Ramifications for Activation Properties of Protein Folding. 2014 , 118, 7488-7509	44
526	Perspectives on water science: transport and application of confined water. 2014 , 57, 829-835	2
525	Evaluation of the method uncertainty in the calibration of piston pipettes (micropipettes) using the gravimetric method in accordance with the procedure of ISO 8655-6. 2014 , 19, 377-389	5
524	Building Force Fields: An Automatic, Systematic, and Reproducible Approach. 2014 , 5, 1885-91	294
523	Study on interactions of saccharides and their derivatives with potassium phosphate monobasic (1:1 electrolyte) in aqueous solutions at different temperatures. 2014 , 196, 291-299	20
522	Densitometry and ultrasound velocimetry of hyaluronan solutions in water and in sodium chloride solution. 2014 , 106, 453-9	12
521	Understanding the Thermo-Hydronechanical Pressurization in Two-Phase (Steam/Water) Flow and Its Application in Low-Permeability Caprock Formations in Steam-Assisted-Gravity-Drainage Projects. 2014 , 19, 1126-1150	2
520	Influence of disordered porous media on the anomalous properties of a simple water model. 2015 , 92, 032404	3
519	Modeling Complex Reservoir and Mud Filtrate Brines for Petrophysical Interpretation Parameters: Why Equivalent NaCl Salinity can Produce Misleading Results. 2015 ,	0
518	On the effect of hydrostatic pressure on the conformational stability of globular proteins. 2015 , 103, 711-8	8
517	The Cluster Size and Change of Water Molecules in Poly(vinyl alcohol) Film by Heating. 2015 , 71, 284-290	
516	Reparametrized E3B (Explicit Three-Body) Water Model Using the TIP4P/2005 Model as a Reference. 2015 , 11, 2268-77	38
515	Effects of temperature on the thermodynamic and dynamical properties of glycerol-water mixtures: a computer simulation study of three different force fields. 2015 , 119, 6250-61	18
514	Design of an osmotic pressure sensor for sensing an osmotically active substance. 2015 , 25, 045019	2

513	Experimental triplet and quadruplet fluctuation densities and spatial distribution function integrals for pure liquids. 2015 , 142, 044502	9
512	Geophysical Properties of the Near Surface Earth: Seismic Properties. 2015 , 43-87	15
511	Modulation in physico-chemical characteristics of some polyhydroxy solutes in presence of l-glycine: Volumetric and NMR spectroscopic approach. 2015 , 402, 113-123	14
510	The structural origin of anomalous properties of liquid water. 2015 , 6, 8998	286
509	Refractive index and solubility control of para-cymene solutions for index-matched fluid-structure interaction studies. 2015 , 56, 1	14
508	Characterization of Composite Thermal Insulation for Marine Riser Structures. 2015 ,	
507	Apparent molar properties of aqueous protic ionic liquid solutions at T = (293.15 to 328.15) K. 2015 , 21, 1959-1965	18
506	Multipolar Ewald methods, 2: applications using a quantum mechanical force field. 2015 , 11, 451-61	17
505	Revised Parameters for the AMOEBA Polarizable Atomic Multipole Water Model. 2015 , 119, 9423-9437	149
504	Multipolar Ewald methods, 1: theory, accuracy, and performance. 2015 , 11, 436-50	30
503	Molecular Dynamics Simulation of Self-Aggregation of Asphaltenes at an Oil/Water Interface: Formation and Destruction of the Asphaltene Protective Film. 2015 , 29, 1233-1242	106
502	Volumetric and viscosity properties of dicationic ionic liquids in (glucose + water) solutions at T = 298.15 K. 2015 , 86, 13-19	23
501	Estimating the Density and Compressibility of Natural Hypersaline Brines Using the Pitzer Ionic Interaction Model. 2015 , 21, 11-29	2
500	The associating lattice gas in the presence of interacting solutes. 2015 , 142, 094502	1
499	Self-Assembly and Water-like Anomalies in Janus Nanoparticles. 2015 , 31, 8577-82	19
498	Effects of phosphate-based monobasic and tribasic inorganic salts on hydration characteristics of saccharides and their derivatives. 2015 , 211, 78-89	13
497	The partial molal volume and compressibility of Tris and Tris-HCl in water and 0.725 m NaCl as a function of temperature. 2015 , 104, 41-51	7
496	Volumetric properties of 1-butyl-3-methylimidazolium bromide in aqueous solutions of D-ribose and D-arabinose at different temperatures. 2015 , 209, 352-357	20

495	Effects of confinement on anomalies and phase transitions of core-softened fluids. 2015 , 142, 134502		19
494	The interplay between dynamic heterogeneities and structure of bulk liquid water: A molecular dynamics simulation study. 2015 , 142, 244507		4
493	Influence of NH ₄ Br on Solvation Behavior of Polyhydroxy Solutes in Aqueous Solutions at Different Temperatures and Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 1023-1047	2.8	40
492	Characterization of the Local Structure in Liquid Water by Various Order Parameters. 2015 , 119, 8406-18		108
491	Effect of hydrostatic pressure on gas solubilization in micelles. 2015 , 31, 3318-25		6
490	Changes of water hydrogen bond network with different externalities. 2015 , 16, 8454-89		57
489	Volumetric and Acoustic Properties of a DBU (1,8-Diazobicyclo[5.4.0]undec-7-ene) Based Protic Ionic Liquid in Water at T = (293.15 to 328.15) K. 2015 , 44, 634-651		20
488	A 3D-RISM integral equation study of a hydrated dipeptide. 2015 , 41, 1015-1020		3
487	Volumetric Properties of Disaccharides in Aqueous Solutions of Benzyldimethylammonium Acetate as a Function of Temperature. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 1764-1775	2.8	8
486	On the effect of sodium salts on the coil-to-globule transition of poly(N-isopropylacrylamide). 2015 , 17, 27750-7		33
485	Multiscale molecular dynamics/hydrodynamics implementation of two dimensional Mercedes Benz water model. 2015 , 224, 2217-2238		16
484	Thermodynamic Analysis of the Two-Liquid Model for Anomalies of Water, HDL-LDL Fluctuations, and Liquid-Liquid Transition. 2015 , 119, 14210-20		19
483	Hydration shell of the TS-Kappa protein: Higher density than bulk water. 2015 , 439, 48-58		16
482	pH-Controlled Selective Separation of Neodymium (III) and Samarium (III) from Transition Metals with Carboxyl-Functionalized Ionic Liquids. 2015 , 3, 3167-3174		43
481	Three-dimensional imaging of biological cells with picosecond ultrasonics. 2015 , 106, 163701		43
480	Vapor-liquid equilibrium of ternary aqueous poly (ethylene glycol)+dipotassium tartrate at solutions at different temperatures. 2015 , 51, 172-177		3
479	Thermodynamic and Structural Evidence for Reduced Hydrogen Bonding among Water Molecules near Small Hydrophobic Solutes. 2015 , 119, 12108-16		28
478	Investigations of the interactions in aqueous poly (vinyl pyrrolidone)+di-sodium hydrogen citrate solutions using vapor-liquid equilibria studies at different temperatures. 2015 , 211, 767-775		7

477	The Gibbs energy cost of cavity creation depends on geometry. 2015 , 211, 1047-1051	24
476	Hydrophobicity: effect of density and order on water's rotational slowing down. 2015 , 11, 7977-85	12
475	Apparent molar properties of hydroxyethyl ammonium based ionic liquids with water and ethanol at various temperatures. 2015 , 212, 444-450	25
474	New structural anomaly induced by nanoconfinement. 2015 , 119, 291-300	24
473	Salting-out behaviour of 1-butyl-3-methylimidazolium bromide, [C4mim][Br], ionic liquid on aqueous l-serine solutions at T=298.15K. 2015 , 83, 43-51	15
472	Thermal expansion anomaly regulated by entropy. 2014 , 4, 7043	46
471	Improved SPC force field of water based on the dielectric constant: SPC/. 2015 , 420, 116-123	28
470	Volumetric properties of amino acids in aqueous solutions of ammonium based protic ionic liquids. 2015 , 385, 258-274	40
469	Apparent molar properties of benzyldimethylammonium based protic ionic liquids in water and ethanol at different temperatures. 2015 , 385, 92-104	32
468	The size and structure of selected hydrated ions and implications for ion channel selectivity. 2015 , 5, 1213-1219	19
467	Investigation of 1-(2-carboxyethyl)-3-methylimidazolium chloride[HOOCEMIM][Cl] ionic liquid effect on water activity and solubility of l-serine at T=298.15K. 2015 , 80, 49-58	13
466	Hydration behaviour of some mono-, di-, and tri-saccharides in aqueous sodium gluconate solutions at (288.15, 298.15, 308.15 and 318.15)K: volumetric and rheological approach. 2015 , 168, 142-50	41
465	A practical approach to lake water density from electrical conductivity and temperature. 2016 , 20, 2975-2986	18
464	Simple Process-Led Algorithms for Simulating Habitats (SPLASH v.1.0): Robust Indices of Radiation, Evapotranspiration and Plant-Available Moisture. 2016 ,	
463	The study of thermodynamic properties of the ternary (1-ethyl-3-methylimidazolium hydrogen sulfate + lithium chloride + water) system and corresponding binary systems at different temperatures and ambient pressure. 2016 , 102, 95-104	13
462	A polarizable, charge transfer model of water using the drude oscillator. 2016 , 37, 2060-6	13
461	Anisotropy in geometrically rough structure of ice prismatic plane interface during growth: Development of a modified six-site model of HO and a molecular dynamics simulation. 2016 , 145, 244706	8
460	A single-site multipole model for liquid water. 2016 , 145, 034501	12

459	Static and dynamic properties of supercooled water in small nanotubes. 2016 , 145, 024502	8
458	A spherical cavity model for quadrupolar dielectrics. 2016 , 144, 114502	6
457	A new force field including charge directionality for TMAO in aqueous solution. 2016 , 145, 064103	7
456	Temperature of maximum density and excess thermodynamics of aqueous mixtures of methanol. 2016 , 144, 184505	13
455	On the time required to freeze water. 2016 , 145, 211922	47
454	A critical appraisal of the zero-multipole method: Structural, thermodynamic, dielectric, and dynamical properties of a water system. 2016 , 144, 114503	19
453	Improving hyperthermia treatment planning for the pelvis by accurate fluid modeling. 2016 , 43, 5442	16
452	On the accuracy of the MB-pol many-body potential for water: Interaction energies, vibrational frequencies, and classical thermodynamic and dynamical properties from clusters to liquid water and ice. 2016 , 145, 194504	146
451	Estimating the gravity induced three dimensional deformation of the breast. 2016 , 49, 4134-4137	5
450	The temperature dependence of intermediate range oxygen-oxygen correlations in liquid water. 2016 , 145, 084503	27
449	Short-range potential functions in computer simulations of water and aqueous solutions. 2016 , 57, 1627-1654	6
448	Solvation behavior of monosaccharides in aqueous protic ionic liquid solutions: Volumetric, calorimetric and NMR spectroscopic studies. 2016 , 421, 24-32	9
447	Thermodynamic properties of peptide solutions 20. Partial molar volumes and isothermal compressions for some tripeptides of sequence gly-X-gly (X = gly, ala, leu, asn, thr, and tyr) in aqueous solution at T = 298.15 K and p = (10–20) MPa. 2016 , 99, 30-39	7
446	Waterlike features, liquid-crystal phase and self-assembly in Janus dumbbells. 2016 , 459, 1-8	15
445	Modeling Molecular Interactions in Water: From Pairwise to Many-Body Potential Energy Functions. 2016 , 116, 7501-28	234
444	On urea's ability to stabilize the globule state of poly(N-isopropylacrylamide). 2016 , 18, 14426-33	20
443	Thermodynamic studies on the complete phase diagram of the ternary aqueous system containing polyvinylpyrrolidone 3500 and sodium sulfate at different temperatures: Experiment and correlation. 2016 , 98, 71-80	6
442	Vapor-Liquid equilibria study of the ternary systems containing sucrose in aqueous solutions of ionic liquids, 1-butyl-3-methyl imidazolium bromide and 1-hexyl-3-methyl imidazolium bromide at 298.15 K and atmospheric pressure. 2016 , 429, 45-54	20

441	Thermodynamic properties of aqueous poly(ethylene glycol) 2000/Na ₂ MoO ₄ systems. 2016 , 224, 132-138	8
440	Modelling water vapour transport, transpiration and weight loss in a perforated modified atmosphere packaging for feijoa fruits. 2016 , 151, 218-230	18
439	Shedding light on the extra thermal stability of thermophilic proteins. 2016 , 105, 856-63	27
438	An alternative explanation of the cononsolvency of poly(N-isopropylacrylamide) in water-methanol solutions. 2016 , 18, 25601-25608	56
437	Pore Model in the Melting Regime of a Lyotropic Biomembrane with an Anionic Phospholipid. 2016 , 32, 13556-13565	4
436	Near-Surface and Bulk Behavior of Bicontinuous Microemulsions under High-Pressure Conditions. 2016 , 120, 7148-53	4
435	Vapor-liquid equilibria and volumetric properties for new working fluid ([C ₆ H ₁₁ N ₂][HSO ₄] + LiBr + H ₂ O) and corresponding binary systems at different temperatures and ambient pressure. 2016 , 429, 137-148	5
434	The Study of Osmotic and Activity Coefficients for the Ternary System, (1-Ethyl-3-Methyl Imidazolium Chloride + Lithium Chloride + Water) and Their Corresponding Binary Systems at T = 298.15 K. 2016 , 1	
433	Thermodynamic Properties and Phase Equilibria in the Water/Tri-n-butyl Phosphate System. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 4222-4228	2.8 7
432	A priori predictions of molecular density by EFP2-MD. 2016 , 135, 1	2
431	Phase Equilibrium of Aqueous Glycine + Choline Chloride Ionic Liquid Solutions. 2016 , 45, 1842-1856	7
430	Conductivities of 1-Alkyl-3-methylimidazolium Chloride Ionic Liquids in Disaccharide + Water Solutions at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3779-3787	2.8 4
429	Modeling the inactivation of psychrotrophic <i>Bacillus cereus</i> spores in beef slurry by 600MPa HPP combined with 38/70°C: Comparing with thermal processing and estimating the energy requirements. 2016 , 99, 179-187	22
428	Numerical investigation on using of nanofluid in a water-cooled photovoltaic thermal system. 2016 , 122, 263-278	186
427	Measurement and modelling of water activity of aqueous poly (ethylene glycol) or poly (propylene glycol)+sodium potassium tartrate and corresponding binary salt solutions. 2016 , 100, 177-184	4
426	Densities and Viscosities of Polyhydroxy Solutes in Aqueous Tetraethylammonium Bromide Solutions at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1756-1776	2.8 1
425	Water-like Anomalies and Phase Behavior of a Pair Potential that Stabilizes Diamond. 2016 , 120, 1649-59	6
424	Effect of Temperature Variations on Asphaltene Dynamics in Oil Reservoirs. 2016 ,	2

423	Volumetric and Acoustic Behavior of Sodium Cyclamate in Aqueous System from 293.15 K to 318.15 K. 2016 , 45, 1009-1020		3
422	Temperature Dependence of the Pairwise Association of Hard Spheres in Water. 2016 , 85, 024801		6
421	Structural anomaly of core-softened fluid confined in single walled carbon nanotube: a molecular dynamics simulation investigation. 2016 , 114, 1771-1777		4
420	Shedding light on the hydrophobicity puzzle. 2016 , 88, 177-188		17
419	Miscellaneous Issues. 2016 , 419-453		
418	Evaluation of the vapour pressure of aqueous NaCl-sorbitol solution and correlation of the water activity on composition and temperature. 2016 , 415, 84-87		1
417	Influence of temperature on thermodynamics of protic ionic liquid 2-hydroxy diethylammonium lactate (2-HDEAL) + short hydroxylic solvents. 2016 , 213, 92-106		15
416	Interaction of L-Phenylalanine with Nicotinic Acid in Buffer Solution by Volumetric Measurements at Various Temperatures. 2016 , 45, 475-482		10
415	Anion-Water interactions of weakly hydrated anions: molecular dynamics simulations of aqueous NaBF ₄ and NaPF ₆ . 2016 , 114, 1831-1846		11
414	Magnetic Field Induced Ultrasound from Colloidal Superparamagnetic Nanoparticles. 2016 , 120, 2386-2391		7
413	Mean Activity Coefficients and Osmotic Coefficients in Dilute Aqueous Sodium or Potassium Chloride Solutions at Temperatures from (0 to 70) °C. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 286-306	2.8	9
412	Ventilated tunnel solar dryers for small-scale farmers communities: Theoretical and practical aspects. 2016 , 34, 1162-1174		8
411	Measurements of heat capacities and turbidities for binary mixtures {water + 2,6-dimethylpyridine} and {water, or heavy water + 2,6-dimethylpiperidine} in the critical regions. 2016 , 409, 361-368		
410	Thermodynamic and dynamic anomalous behavior in the TIP4P/. 2016 , 444, 86-94		16
409	Volumetric and UV absorption studies on understanding the solvation behavior of polyhydroxy solutes in l-ascorbic acid(aq) solutions at T=(288.15 to 318.15)K. 2016 , 192, 765-74		13
408	Lubrication synergy: Mixture of hyaluronan and dipalmitoylphosphatidylcholine (DPPC) vesicles. 2017 , 488, 225-233		36
407	Probability of cavity creation in water and corresponding Lennard-Jones liquid. 2017 , 229, 358-361		1
406	COMPORTAMIENTO VOLUMÉTRICO DE LA DL-VALINA EN SOLUCIONES ACUOSAS DE NITRATO DE SODIO A DIFERENTES TEMPERATURAS. 2017 , 20, 5-15		

405	Evaluating the environmental parameters affecting the performance of photovoltaic thermal system using nanofluid. 2017 , 115, 178-187	75
404	Hydrostatic pressure effect on PNIPAM cononsolvency in water-methanol solutions. 2017 , 231, 34-38	4
403	Thermodynamic studies on the phase equilibria of ternary {ionic liquid, 1-hexyl-3-methyl imidazolium chloride + D-fructose or sucrose + water} systems at 298.15 K. 2017 , 436, 38-46	18
402	Determination of Volumetric Properties Using Refractive Index Measurements for Nonpolar Hydrocarbons and Crude Oils. 2017 , 56, 3107-3115	7
401	How water manifests the structural regimes in ionic liquids. 2017 , 13, 2348-2361	16
400	Effect of temperature on apparent molar properties of DBU based protic ionic liquid in aqueous and ethanolic solutions. 2017 , 231, 213-219	18
399	Reversible Heating in Electric Double Layer Capacitors. 2017 , 118, 096001	36
398	Experimental and numerical research of thermal stratification with a novel inlet in a dynamic hot water storage tank. 2017 , 111, 353-371	48
397	Volumetric, viscometric and ¹ H NMR spectroscopic studies in (polyhydroxy solute + CTAB + H ₂ O) ternary solutions. 2017 , 112, 13-22	8
396	PEG-functionalized ionic liquids: A class of liquid materials for highly efficient extraction of rare earth metals from aqueous solutions. 2017 , 236, 308-313	11
395	Temperature of maximum density and excess properties of short-chain alcohol aqueous solutions: A simplified model simulation study. 2017 , 146, 144503	12
394	Calcium chloride adsorption at liquid-liquid interfaces: A molecular dynamics simulation study. 2017 , 527, 70-80	3
393	Experimental and Numerical Study of the Evaporation of Water at Low Pressures. 2017 , 33, 4578-4591	37
392	The effect of ionic liquid 1-ethyl-3-methylimidazolium hydrogen sulfate on thermodynamic properties of aqueous lithium nitrate solutions at different temperatures and ambient pressure. 2017 , 237, 120-127	1
391	Membrane Disruption Mechanism of a Prion Peptide (106-126) Investigated by Atomic Force Microscopy, Raman and Electron Paramagnetic Resonance Spectroscopy. 2017 , 121, 5058-5071	18
390	Hydration and Solvation Effect of Glycine and Glycylglycine Molecules with β -Cyclodextrin in Aqueous Media. A Thermodynamic Characteristic of Interaction. 2017 , 231, 1831-1847	1
389	Monitoring of the Neutral Atmosphere. 2017 , 1109-1138	3
388	Process modelling of an alkaline water electrolyzer. 2017 , 42, 15689-15707	52

387	Strawberry puree processed by thermal, high pressure, or power ultrasound: Process energy requirements and quality modeling during storage. 2017 , 23, 293-309	15
386	Measurement and Correlation for Acoustic, Transport, Refractive, and High-Temperature Volumetric Data of Substituted Benzylamines. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 1189-1197	2.8 11
385	Comparison of several measure-correlate-predict models using support vector regression techniques to estimate wind power densities. A case study. 2017 , 140, 334-354	23
384	Solutal and thermal buoyancy effects in self-powered phosphatase micropumps. 2017 , 13, 2800-2807	37
383	Critical points, phase transitions and water-like anomalies for an isotropic two length scale potential with increasing attractive well. 2017 , 468, 866-879	5
382	A driving force for polypeptide and protein collapse. 2016 , 19, 751-756	13
381	Urea-Water-Solution Properties: Density, Viscosity, and Surface Tension in an Under-Saturated Solution. 2017 , 3, 161-170	22
380	Free energy models for ice VII and liquid water derived from pressure, entropy, and heat capacity relations. 2017 , 147, 084505	17
379	On the statics and dynamics of fully confined bubbles. 2017 , 827, 194-224	25
378	Quantum mechanical force fields for condensed phase molecular simulations. 2017 , 29, 383002	18
377	The isobaric heat capacity of liquid water at low temperatures and high pressures. 2017 , 147, 084501	6
376	A theory for the effect of patch/non-patch attractions on the self-assembly of patchy colloids. 2017 , 13, 6506-6514	2
375	Why does TMAO stabilize the globule state of PNIPAM?. 2017 , 124, 101-106	4
374	Energetics of the contact minimum configuration of two hard spheres in water. 2017 , 685, 54-59	6
373	Effect of temperature on compressibility properties of 0.1, 0.5 and 1.0 molal solutions of alkali metal halides. Part 1. Aqueous solutions of sodium chloride, sodium bromide, sodium iodide, potassium chloride, potassium bromide, potassium iodide, rubidium chloride and rubidium iodide in the 278.15 K to 353.15 K temperature range. 2017 , 242, 1263-1284	1
372	The Partial Molar Isothermal Compressions of the Nucleosides Adenosine, Cytidine, and Uridine in Aqueous Solution at T = (288.15 and 313.15) K. 2017 , 46, 849-861	2
371	Effect of the Thermocouple on Measuring the Temperature Discontinuity at a Liquid-Vapor Interface. 2017 , 33, 7169-7180	16
370	Perturbation theory for water with an associating reference fluid. 2017 , 96, 052602	10

369	Temperature dependence of the Landau-Placzek ratio in liquid water. 2017 , 96, 042608		2
368	Determination of the Distribution of Cupric Chloro-Complexes in Hydrochloric Acid Solutions at 298 K. 2017 , 46, 704-719		10
367	Understanding the solvation behavior of tetramethylguanidinium based ionic liquids in dilute aqueous solutions through apparent molar properties. 2017 , 242, 129-136		2
366	Comparative study of 3D-RISM theory and molecular dynamics calculations for the free-energy landscape of a hydrated dipeptide. 2017 , 43, 1406-1411		2
365	Temperature of maximum density for aqueous mixtures of three pentanol isomers. 2017 , 113, 369-376		7
364	Traceable Thermodynamic Quantities for Dilute Aqueous Sodium Chloride Solutions at Temperatures from (0 to 80) °C. Part 1. Activity Coefficient, Osmotic Coefficient, and the Quantities Associated with the Partial Molar Enthalpy. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 2617-2632	2.8	10
363	Volumetric, Viscometric and Spectroscopic Approach to Study the Solvation Behavior of Xanthine Drugs in Aqueous Solutions of NaCl at T = 288.15-318.15 K and at p = 101.325 kPa. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 20-34	2.8	8
362	Effect of ionic liquids, 1-butyl-3-methyl imidazolium bromide and 1-hexyl-3-methyl imidazolium bromide on the vapour-liquid equilibria of the aqueous D-fructose solutions at 298.15 K and atmospheric pressure using isopiestic method. 2017 , 105, 142-150		19
361	Flow and structure of fluids in functionalized nanopores. 2017 , 467, 137-147		11
360	Automation and heat transfer characterization of immersion mode spectroscopy for analysis of ice nucleating particles. 2017 , 10, 2613-2626		14
359	Fluctuation and Partial Molar Fluctuation Understanding H ₂ O. 2017 , 91-112		
358	Mixing Schemes in Aqueous Solutions of Nonelectrolytes. 2017 , 199-252		1
357	Solution Thermodynamics and its Application to Aqueous Solutions - Pages 407-418. 2017 , 407-418		
356	Volumetric Properties. 2017 , 293-334		
355	Methodology for designing lateral lines with microtubes operated under variable inlet pressure. 2017 , 21, 594-599		1
354	Simple process-led algorithms for simulating habitats (SPLASH v.1.0): robust indices of radiation, evapotranspiration and plant-available moisture. 2017 , 10, 689-708		43
353	The contribution of small angle and quasi-elastic scattering to the physics of liquid water. 2017 , 848, 012003		1
352	Thermodynamic properties of SrCl ₂ (aq) from 252 K to 524 K and phase equilibria in the SrCl ₂ -H ₂ O system: Implications for thermochemical heat storage. 2018 , 120, 106-115		27

351	Mixture Equation of State for Water with an Associating Reference Fluid. 2018 , 57, 4070-4080	8
350	Interferometric mapping of material properties using thermal perturbation. 2018 , 115, E2499-E2508	13
349	A new high accuracy meshfree method to directly simulate fluid dynamics and heat transfer of weakly compressible fluids. 2018 , 123, 25-39	2
348	Formation of Nano-Ice and Density Maximum Anomaly of Water. 2018 , 91, 991-997	16
347	From picture to porosity of river bed material using Structure-from-Motion with Multi-View-Stereo. 2018 , 306, 80-89	14
346	On the cononsolvency behaviour of hydrophobic clusters in water-methanol solutions. 2018 , 20, 7230-7235	5
345	Counteraction ability of TMAO toward different denaturing agents. 2018 , 109, e23104	16
344	Waterlike anomalies in a two-dimensional core-softened potential. 2018 , 97, 022604	14
343	Relationships between dynamic behavior and properties of a single droplet of water-emulsified n-dodecane. 2018 , 220, 130-139	7
342	Gas solubilities in liquid water near the temperature of the density maximum, $T_{\max}(\text{H}_2\text{O}) = 277.13$ K. 2018 , 149, 219-230	1
341	Comment on "Thermal compaction of the intrinsically disordered protein tau: entropic, structural, and hydrophobic factors" by A. Battisti, G. Ciasca, A. Grottesi and A. Tenenbaum, Phys. Chem. Chem. Phys., 2017, 19, 8435. 2017 , 20, 690-693	4
340	Dual Phase Change Thermal Diodes for Enhanced Rectification Ratios: Theory and Experiment. 2018 , 8, 1702692	35
339	Effect of water temperature on air-core generation and disappearance during draining. 2018 , 32, 703-708	9
338	Evaluation of Water Activity in H ₂ O/PEG400/PEG6000 Solutions between 318.15 and 348.15 K. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 1631-1635	2.8 1
337	Potential bias in TEOS10 density of sea water samples. 2018 , 134, 41-47	5
336	Constraints on density changes in the funnel-shaped caldera inferred from gravity monitoring of the Lusi mud eruption. 2018 , 90, 91-103	6
335	Effect of heavy water on the conformational stability of globular proteins. 2018 , 109, e23076	5
334	Predicting mass fluxes in the pervaporation process using Maxwell-Stefan diffusion coefficients. 2018 , 546, 111-119	7

- 333 Isopiestic determination of water activity and vapour pressure for ternary (ionic liquid, 1-hexyl-4-methyl pyridinium bromide + d-fructose or sucrose + water) systems and corresponding binary ionic liquid solutions at 298.15 K. **2018**, 116, 42-49 13
- 332 Advanced models for water simulations. **2018**, 8, e1355 30
- 331 High-temperature dynamic behavior in bulk liquid water: A molecular dynamics simulation study using the OPC and TIP4P-Ew potentials. **2018**, 13, 1 6
- 330 Influence of N-1 alkyl substituent on apparent molar properties of 1,2,4-triazolium based ionic liquids in aqueous solutions. **2018**, 250, 477-484 12
- 329 Growth of Clathrate Hydrates from Water Drops in Cyclopentane. **2018**, 32, 2693-2698 7
- 328 Thermodynamic properties of CuSO₄(aq) from 268 K to 377 K and phase equilibria in the CuSO₄-H₂O system. **2018**, 149, 369-379 7
- 327 Influence of Temperature and De-Icing Salt on the Sedimentation of Particulate Matter in Traffic Area Runoff. **2018**, 10, 1738 7
- 326 Counteraction of denaturant-induced protein unfolding is a general property of stabilizing agents. **2018**, 20, 29389-29398 16
- 325 Charged Carbon Nanotubes. **2018**,
- 324 Molecular Dynamics Simulations of the Thermal and Transport Properties of Molten NaNO₂-NaNO₃ Systems. **2018**, 86, 104-108 1
- 323 Clinical validation of a novel thermophysical bladder model designed to improve the accuracy of hyperthermia treatment planning in the pelvic region. **2018**, 35, 383-397 11
- 322 Improved general-purpose five-point model for water: TIP5P/2018. **2018**, 149, 224507 14
- 321 A QM/MM Derived Polarizable Water Model for Molecular Simulation. **2018**, 23, 6
- 320 Computational analysis of turbulent flow through an eccentric annulus under different temperature conditions. **2018**, 28, 2189-2207 3
- 319 Chemical Bath Deposition. **2018**, 81-103 1
- 318 Thermodynamic properties of seawater, ice and humid air: TEOS-10, before and beyond. **2018**, 14, 471-502 24
- 317 Why different water models predict different structures under 2D confinement. **2018**, 39, 2051-2059 17
- 316 How temperature influences the viscosity of hornworm hemolymph. **2018**, 221, 4

315	The relative viscosity of NaNO ₃ and NaNO ₂ aqueous solutions. 2018 , 264, 110-114	7
314	Water and cold denaturation of small globular proteins. 2018 , 264, 579-584	5
313	A novel live-cell imaging system reveals a reversible hydrostatic pressure impact on cell-cycle progression. 2018 , 131,	1
312	Understanding the solvation behavior of SO ₃ H functionalized Brønsted acidic ionic liquids in water and DMSO: Volumetric and acoustic approach. 2018 , 266, 269-278	4
311	Compressibility of the protein-water interface. 2018 , 148, 215102	11
310	An efficient water force field calibrated against intermolecular THz and Raman spectra. 2018 , 148, 244504	15
309	Water activities of sodium molybdate solutions at different temperatures. 2018 , 476, 131-138	5
308	Complex Behavior of Ordered and Ice-like Water in Carbon Nanotubes near Its Bulk Boiling Point. 2018 , 9, 4746-4752	6
307	Importance of Solvents' Translational-Rotational Coupling for Translational Jump of a Small Hydrophobic Solute in Supercooled Water. 2018 , 122, 7569-7583	10
306	Technical note: Comparison and interconversion of pH based on different standard states for aerosol acidity characterization. 2018 , 18, 11125-11133	19
305	Cylindrical-water-resonator-based ultra-broadband microwave absorber. 2018 , 8, 2060	38
304	Using a Volume Shift in Perturbed-Chain Statistical Associating Fluid Theory To Improve the Description of Speed of Sound and Other Derivative Properties. 2018 , 57, 11804-11814	9
303	The selection of water property formulae for volume and flow calibration and measurement. 2018 , 55, 731-746	2
302	Advances in Computational Studies of the Liquid-Liquid Transition in Water and Water-Like Models. 2018 , 118, 9129-9151	110
301	Salting-out Effect of Ionic Liquid, 1-Butyl-3-methyl Imidazolium Chloride on Aqueous d-Fructose or Sucrose Solutions at T = 298.15 K: Vapor-Liquid Equilibrium Study. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 3196-3205	2.8 5
300	Technical note: A refinement of coccolith separation methods: measuring the sinking characteristics of coccoliths. 2018 , 15, 4759-4775	5
299	A reassessment of entropy convergence in solvation thermodynamics. 2018 , 269, 119-125	5
298	Absolute intensity calibration and application at BSRF SAXS station. 2018 , 900, 64-68	20

297	The geometry of protein hydration. 2018 , 148, 215101	24
296	High-solids anaerobic digestion model for homogenized reactors. 2018 , 142, 501-511	29
295	Numerical Study of Particle-Fluid Flow Under AC Electrokinetics in Electrode-Multilayered Microfluidic Device. 2019 , 66, 453-463	14
294	Impact of sol-gel transition on the ultrasonic properties of complex model foods: Application to agar/gelatin gels and emulsion filled gels. 2019 , 87, 506-518	14
293	Network topology of deeply supercooled water. 2019 , 117, 3217-3226	1
292	Temperature dependent anomalous fluctuations in water: shift of \sim kbar between experiment and classical force field simulations. 2019 , 117, 3232-3240	5
291	Evaporation effect on spreading time of a droplet in fluidized bed wet granulation. 2019 , 143, 118517	3
290	tSPICA: Temperature- and Pressure-Dependent Coarse-Grained Force Field for Organic Molecules. 2019 , 59, 3829-3838	10
289	Are Water and Ice Normal Polar Dielectrics? Polarization Mechanism. 2019 , 544, 38-42	1
288	The interactions between thermodynamic anomalies. 2019 , 151, 024502	1
287	A doubly associated reference perturbation theory for water. 2019 , 500, 112252	4
286	Decoupling of Translational Diffusion from the Viscosity of Supercooled Water: Role of Translational Jump Diffusion. 2019 , 123, 7178-7189	19
285	Recovery of Water from Concentration of Copper Mining Effluents Using Direct Contact Membrane Distillation. 2019 , 58, 19599-19610	6
284	Self-assembly in amphiphilic macromolecules with solvent exposed hydrophobic moieties. 2019 , 110, e23330	0
283	The Proton Density of States in Confined Water (HO). 2019 , 20,	0
282	A resummed thermodynamic perturbation theory for positive and negative hydrogen bond cooperativity in water. 2019 , 31, 184001	8
281	Measurements and Correlation of Water Activity in Aqueous Solutions Containing Diphenhydramine-Hydrochloride Drug, (D+)-Galactose, (D)-Fructose, (D+)-Lactose, and Sucrose at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 5671-5680	2.8 4
280	A 1-D Model for Condensation Onset in Hypersonic Wind Tunnels with Gas-Phase Impurities. 2019 ,	

279	Structure and Density Comparison of Noble Gas Hydrates Encapsulating Xenon, Krypton and Argon. 2019 , 20, 2518-2524	14
278	Piepser: A Smart Wrist-Worn Variometer To Maximize The Paragliders Flytime.. 2019 ,	1
277	The evolution of polycyclic aromatic hydrocarbons under simulated inner asteroid conditions. 2019 , 54, 1930-1950	3
276	Some considerations on the water polymorphism and the liquid-liquid transition by the density behavior in the liquid phase. 2019 , 151, 044504	9
275	Fragile-to-strong transitions in glass forming liquids. 2019 , 4, 100034	10
274	A Comprehensive Brownian Dynamics Approach for the Determination of Non-ideality Parameters from Analytical Ultracentrifugation. 2019 , 35, 11491-11502	5
273	Contrasting the hydration thermodynamics of methane and methanol. 2019 , 21, 21418-21430	17
272	Density Measurements of the $H_2O_2-H_4O_6-H_2O$ System by the Isochoric Method at 722.30 K and 15.480.3 MPa. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4024-4036	2.8 7
271	Study of the Elusive Hydration of Pb from the Gas Phase to the Liquid Aqueous Solution: Modeling the Hemidirected Solvation with a Polarizable MCDHO Force-Field. 2019 , 123, 9155-9166	6
270	Effect of diphenhydramine-hydrochloride, guaifenesin and naproxen sodium drugs on water activity in aqueous solutions of 1-butyl-1-methylpyrrolidinium trifluoromethanesulfonate ionic liquid at 298.15 K. 2019 , 294, 111658	1
269	On the opposite effect of guanidinium chloride and guanidinium sulphate on the kinetics of the Diels-Alder reaction. 2019 , 275, 100-104	3
268	Understanding the peculiar effect of water on the physicochemical properties of choline chloride based deep eutectic solvents theoretically and experimentally. 2019 , 278, 607-615	49
267	On the thermal stratification inside a spherical water storage tank during dynamic mode. 2019 , 159, 113821	10
266	Controlled Cooling for Synthesis of $Cs_2AgBiBr_6$ Single Crystals and Its Application for X-Ray Detection. 2019 , 7, 1900491	72
265	Early-stage dynamics in vascular endothelial cells exposed to hydrodynamic pressure. 2019 ,	5
264	A study of the hydrogen bonds effect on the water density and the liquid-liquid transition. 2019 , 62, 1	2
263	AMOEBa+ Classical Potential for Modeling Molecular Interactions. 2019 , 15, 4122-4139	53
262	A scalable environmental thermal energy harvester based on solid/liquid phase-change materials. 2019 , 250, 1468-1480	6

261	Local temperature versus system temperature in a simulation experiment containing water molecules. 2019 , 21, 12961-12967	3
260	Seven-Site Effective Pair Potential for Simulating Liquid Water. 2019 , 123, 4594-4603	9
259	Measurement and modelling of water activity, density and viscosity of the KClO ₄ + poly(ethylene glycol) + H ₂ O system at various temperatures. 2019 , 286, 110922	2
258	Hydrogen bond correlated percolation in a supercooled water monolayer as a hallmark of the critical region. 2019 , 285, 727-739	9
257	An enthalpy model of CO ₂ -CH ₄ -H ₂ S-N ₂ -brine systems applied in simulation of non-isothermal multiphase and multicomponent flow with high pressure, temperature and salinity. 2019 , 31, 85-97	7
256	Why does urea have a different effect on the collapse temperature of PDEAM and PNIPAM?. 2019 , 285, 204-212	5
255	Using Volume Shifts To Improve the Description of Speed of Sound and Other Derivative Properties with Cubic Equations of State. 2019 ,	2
254	Sensitivity of a Continuum-Scale Porous Media Heat and Mass Transfer Model to the Spatial-Discretization Length-Scale of Applied Atmospheric Forcing Data. 2019 , 55, 3520-3540	4
253	Comparative study of nanofiltration membrane characterization devices of different dimension and configuration (cross flow and dead end). 2019 , 585, 67-80	31
252	Vapor-Liquid Equilibria Study of the Aqueous Systems Containing {Choline Chloride + Glucose or Urea} and Their Deep Eutectic Solvents at 298.15 K and 85 kPa. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4754-4762	2.8 10
251	Application of the Darcy-Stefan model to investigate the thawing subsidence around the wellbore in the permafrost region. 2019 , 156, 392-401	3
250	Coffee-based colloids for direct solar absorption. 2019 , 9, 4701	19
249	Numerical Study of Enhancement of Positive Dielectrophoresis Particle Trapping in Electrode-Multilayered Microfluidic Device. 2019 , 66, 2936-2944	4
248	Intermediate range order in supercooled water. 2019 , 117, 2470-2476	13
247	Modeling of the Process of Inkjet Printing of Low-Viscosity Liquids. 2019 , 61, 1745-1751	1
246	Numerical investigation on heat extraction performance of an open loop geothermal system in a single well. 2019 , 80, 170-184	20
245	Water activities of ternary mixtures of poly(ethylene glycol), Fe ₂ (SO ₄) ₃ and water over the temperature range of 303.15 to 333.15 K. 2019 , 284, 45-52	3
244	Effect of heat stable salt bis-(2-hydroxyethyl) methylammonium formate on CO ₂ absorption in aqueous methyldiethanolamine solution. 2019 , 281, 376-384	7

243	Volumetric Properties of the Nucleosides Adenosine, Cytidine, and Uridine in Aqueous Solution at T = (288.15 and 313.15) K and p = (10 to 100) MPa. 2019 , 48, 180-199		1
242	An explicit model of temperature-dependent thermal conductivity for nanofluids. 2019 , 353, 012013		
241	Radioactively driven colloids: A special case of anomalous diffusion. 2019 , 126, 124308		1
240	Non-Invasive Remote Temperature Monitoring Using Microwave-Induced Thermoacoustic Imaging. 2019 , 2019, 6375-6378		1
239	Acoustic Method for Determination of the Thermal Properties of Nanofluids. 2019 , 58, 19719-19731		4
238	Fate of steroid hormone micropollutant estradiol in a hybrid magnetic ion exchange resin-nanofiltration process. 2019 , 16, 630		2
237	Traceable Thermodynamic Quantities for Dilute Aqueous NaCl Solutions at Temperatures from (353.15 to 383.15) K and for Dilute Aqueous KCl Solutions from (273.15 to 383.15) K. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 16-33	2.8	3
236	Stability of frozen water droplets on highly hydrophobic porous surfaces: Temperature effects. 2019 , 469, 864-869		3
235	Physically adequate approximations for abnormal temperature dependences of water characteristics. 2019 , 275, 741-748		4
234	Water hydrogen degrees of freedom and the hydrophobic effect. 2019 , 150, 014502		8
233	The temperature-dependent structure, hydrogen bonding and other related dynamic properties of the standard TIP3P and CHARMM-modified TIP3P water models. 2019 , 481, 55-65		20
232	Surface tension, light absorbance, and effective viscosity of single droplets of water-emulsified n-decane, n-dodecane, and n-hexadecane. 2019 , 240, 1-9		6
231	Generalized Quasi-Random Lattice model for electrolyte solutions: Mean activity and osmotic coefficients, apparent and partial molal volumes and enthalpies. 2019 , 479, 69-84		3
230	Thermal effects on water retention behaviour of unsaturated collapsible loess. 2020 , 20, 756-762		4
229	Evaluation of solute-solvent interaction and phase separation for aqueous polymers solutions containing choline chloride/D-sucrose natural deep eutectic solvent through vapor-liquid equilibria, volumetric and acoustic studies. 2020 , 142, 105963		6
228	Generalized Quasi-Random Lattice model for electrolyte solutions: Apparent and partial molal heat capacities. 2020 , 505, 112358		
227	Hydration characteristics, structural effects and the taste quality of some polyhydroxy compounds in aqueous solutions of nicotinic acid (vitamin B3) at (288.15-318.15) K. 2020 , 310, 125861		4
226	Experimental studies and thermodynamic modeling on vapor-liquid equilibrium of aqueous solutions containing 1-butyl-1-methylpyrrolidinium trifluoromethanesulfonate ionic liquid, (d+)-Galactose, (d-)-Fructose, (d+)-Lactose and sucrose at 298.15 K. 2020 , 506, 112375		0

225	Water activity, density, sound velocity, refractive index and viscosity of the {(NH ₄) ₆ Mo ₇ O ₂₄ + poly(ethylene glycol) + H ₂ O} system in the temperature range from 313.15 to 333.15 K: Experiment and modelling. 2020 , 142, 105986	5
224	Single-Element Ultrasonic Transducer for Non-Invasive Measurements. 2020 , 20, 4080-4086	2
223	Development of Coarse-Grained Force Field by Combining Multilinear Interpolation Technique and Simplex Algorithm. 2020 , 41, 814-829	7
222	Characteristics of a free-falling single-droplet of water-in-oil emulsion broken up by a pulse laser. 2020 , 264, 116863	3
221	Effect of sodium thiocyanate and sodium perchlorate on poly(N-isopropylacrylamide) collapse. 2019 , 22, 189-195	4
220	A crucial incorrect understanding in the traditional solution theory. 2020 , 301, 112379	2
219	Numerical modelling of liquid heating and boiling phenomena under microwave irradiation using OpenFOAM. 2020 , 148, 119096	13
218	Capillary-assisted evaporation of water from finned tubes – Impacts of experimental setups and dynamics. 2020 , 165, 114620	2
217	Heat transport processes on planetary scales. 2020 , 59-88	
216	Fast methods of Debye-Hückel limiting slopes calculation and low-temperature extrapolation based on IAPWS equation of state of water. 2020 , 507, 112419	1
215	Effect of temperature on ternary phase diagrams of pyrolytic lignin, mixed solvent and water. 2020 , 262, 116458	3
214	Natural Convection in Water-Saturated Rock Mass under Artificial Freezing. 2020 , 56, 297-308	3
213	Liquid-liquid transition as a perturbation on the van der Waals' equation. 2020 , 319, 114205	
212	Competing interactions near the liquid-liquid phase transition of core-softened water/methanol mixtures. 2020 , 320, 114420	4
211	Phase equilibria measurements and correlation of aqueous solvent of PEG4000 with rubidium chloride at (288.15, 298.15, and 308.15) K. 2020 , 149, 106151	2
210	Water ice compression: Principles and applications. 2020 , 315, 113750	3
209	New Prospects for Particle Characterization Using Analytical Centrifugation with Sector-Shaped Centerpieces. 2020 , 37, 2000108	7
208	Evaluating the Performance of the PC-SAFT and CPA Equations of State on Anomalous Properties of Water. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 5718-5734	2.8 6

207	Polarizable Multipolar Molecular Dynamics Using Distributed Point Charges. 2020 , 16, 7267-7280		2
206	A Constrained Pressure-Temperature Residual (CPTR) Method for Non-Isothermal Multiphase Flow in Porous Media. 2020 , 42, B1014-B1040		8
205	Predicting Transverse Mixing Efficiency Downstream of a River Confluence. 2020 , 56, e2019WR026367		6
204	Effect of deep eutectic solvents based on choline chloride on the thermodynamic and transport properties of D-fructose in aqueous solution. 2020 , 522, 112765		5
203	Experimental tests for a liquid-liquid critical point in water. 2020 , 63, 1		6
202	Traceable Values for Activity and Osmotic Coefficients in Aqueous Sodium Chloride Solutions at Temperatures from 273.15 to 373.15 K up to the Saturated Solutions. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 5226-5239	2.8	3
201	Solubility Effect in Ternary Aqueous Solutions of Ionic Liquids by Isopiestic Equilibrium Studies and Applying the Linear Isopiestic Relations for Estimating Their Speed of Sound, Density, and Surface Tension Data. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 4435-4442	2.8	2
200	The deconvolution of FTIR-ATR spectra to five Gaussians for detection of small changes in plant-water clusters. 2020 , 10, 085214		6
199	Air-water gas exchange in lakes and reservoirs measured from a moving platform by underwater eddy covariance. 2020 , 18, 424-436		6
198	Optimal Design of Neuroprotective Focal Brain Cooling Device Using Surrogate Model Approach. 2020 , 2, 681-691		
197	Charge distributions for molecular dynamics simulations from self-consistent polarization method. 2020 , 41, 2591-2597		2
196	Gelling without Structuring: A SAXS Study of the Interactions among DNA Nanostars. 2020 , 36, 10387-10396		4
195	grand: A Python Module for Grand Canonical Water Sampling in OpenMM. 2020 , 60, 4436-4441		6
194	Pressure-Volume-Temperature Relationships for Aqueous Solutions of N-Methylacetamide at Temperatures Ranging from 278.15 to 323.15 K and Pressures up to 100 MPa. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 5303-5312	2.8	3
193	Measuring compressibility in the optimal analytical ultracentrifuge. 2020 , 49, 711-718		2
192	WITHDRAWN: Solvent-excluded volume effect explains why N-methylacetamide is a solvent better than water for amino acid side chains. 2020 , 137918		
191	Some Aspects of the Liquid Water Thermodynamic Behavior: From The Stable to the Deep Supercooled Regime. 2020 , 21,		1
190	Assessment of Pressure and Density of Confined Water in Graphene Liquid Cells. 2020 , 7, 1901727		5

189	Measurement and modelling of water activity, density, sound velocity, refractive index and viscosity of the Na ₂ MoO ₄ + poly(ethylene glycol) + H ₂ O system in the temperature range from 313.15 to 333.15 K. 2020 , 518, 112628		4
188	The study of extent of interactions between components of natural deep eutectic solvents in the presence of water through isopiestic investigations. 2020 , 311, 113347		7
187	Causal mechanism of injection-induced earthquakes through the M 5.5 Pohang earthquake case study. 2020 , 11, 2614		19
186	Vapor-Liquid Equilibrium of Aqueous Urea Solution from Dynamic Vapor Sorption Measurements at 283.15B43.15 K. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 3528-3535	2.8	2
185	The effect of phase change material balls on the thermal characteristics in hot water tanks: CFD research. 2020 , 178, 115557		8
184	Shape effect on non-covalent dimer stability using classic scaled particle theory. 2020 , 743, 137176		3
183	Thermophysical Properties and Angular Jump Dynamics of Water: A Comparative DFT and DFT-Dispersion-Based Molecular Dynamics Study. 2020 , 124, 6039-6049		5
182	The coarse-grained models of poly(ethylene oxide) and poly(propylene oxide) homopolymers and poloxamers in big multipole water (BMW) and MARTINI frameworks. 2020 , 22, 15976-15985		6
181	Thermophysical Properties of Amorphous-Paracrystalline Celluloses by Molecular Dynamics. 2020 , 29, 2000007		2
180	Polarizable TIP7P Water Model with Perturbation Charges Evaluated from ABEEM. 2020 , 124, 2450-2464		4
179	Isotope effects on the high pressure viscosity of liquid water measured by differential dynamic microscopy. 2020 , 116, 233701		3
178	Density measurements of water [N-methylacetamide mixture at temperatures from 274.15 to 333.15 K and ambient pressure. A comparison of the volumetric characteristics of some amides. 2020 , 151, 106233		5
177	Why small proteins tend to have high denaturation temperatures. 2020 , 22, 16258-16266		4
176	Hydrophobic hydration and pairwise hydrophobic interaction of Lennard-Jones and Mie particles in different water models. 2020 , 22, 4758-4771		2
175	Cohesion and Heat Capacity of Liquid Water from the Viewpoint of an Electrostatic Model. 2020 , 84, 48-52		4
174	Effects of a microscale ridge on dynamic wetting during drop impact. 2020 , 50, 523-537		0
173	Measurement and modelling of water activities of the {CuSO ₄ + poly(ethylene glycol) + H ₂ O} system in the temperature range from 303.15 to 333.15 K. 2020 , 144, 106064		2
172	X-ray CT observation and characterization of water transformation in heavy objects. 2020 , 22, 3446-3454		3

171	Structural and Thermophysical Anomalies of Liquid Water: A Tale of Molecules in the Instantaneous Low- and High-Density Regions. 2020 , 124, 1071-1081		15
170	VaporLiquid Equilibria and Computational Study for Aqueous Solutions of Novel Deep Eutectic Solvents (Amino Acid/Lactic Acid) at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 3262-3269	2.8	6
169	Molecular origins of bulk viscosity in liquid water. 2020 , 22, 9494-9502		7
168	Drivers of diffusive CH ₄ emissions from shallow subarctic lakes on daily to multi-year timescales. 2020 , 17, 1911-1932		12
167	CT-based quantification of short-term tissue shrinkage following hepatic microwave ablation in an in vivo porcine liver model. 2021 , 62, 12-18		1
166	Coupled heat, mass and momentum transport in swelling cellulose based materials with application to retorting of paperboard packages. 2021 , 92, 848-883		1
165	Modeling of the solid-liquid equilibrium of NaCl, KCl and NH ₄ Cl in mixtures of water and ethanol by the modified Pitzer model. 2021 , 322, 114968		0
164	Study of changes in water structure and interactions among water, CH, and COO groups during water absorption in acrylic acid-based super absorbent polymers using Raman spectroscopy. 2021 , 250, 119305		0
163	SolidLiquid Equilibria in Aqueous Solutions of Tris, Tris-NaCl, Tris-TrisHCl, and Tris-(TrisH) ₂ SO ₄ at Temperatures from 5 to 45 °C. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 437-455	2.8	
162	Molecular dynamics simulations of aqueous solutions of short chain alcohols. Excess properties and the temperature of maximum density. 2021 , 528, 112840		7
161	Methodology for Determining the Emitter Local Head Loss in Drip Irrigation Systems. 2021 , 147, 06020014		2
160	Numerical modelling and investigation of microwave heating and boiling phenomena in binary liquid mixtures using OpenFOAM. 2021 , 159, 106538		3
159	Comparative investigation of fine bubble and macrobubble aeration on gas utility and biotransformation productivity. 2021 , 118, 130-141		2
158	Fragile-to-strong transitions in glass forming liquids. 2021 , 557, 119367		5
157	Water Activity in Aqueous Solution of Sucrose in the Presence of Some Deep Eutectic Solvents. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 1043-1054	2.8	2
156	Development of apparatus for Single-sided Wet Etching and its applications in Corrugated Membrane Fabrication. 2021 , 30, 10-14		1
155	Bulk supercooled water adsorbed films on silica surfaces: specific heat by Monte Carlo simulation. 2021 , 23, 2275-2285		
154	N-methylacetamide is a solvent better than water for amino acid side chains: A rationalization grounded in the solvent-excluded volume effect. 2021 , 762, 138160		2

153	Hydration Thermodynamics of the N-Terminal FAD Mutants of Amyloid- β . 2021 , 61, 298-310	0
152	Core-softened water-alcohol mixtures: the solute-size effects. 2021 , 23, 16213-16223	1
151	Evaluation of reproducibility uncertainty in micropipette calibrations for non-nominal volumes through an interlaboratory study. 2021 , 26, 27	
150	Experimental and theoretical excess molar properties of aqueous choline chloride based deep eutectic solvents. 2021 , 324, 114340	3
149	Halogen Atoms in the Protein-Ligand System. Structural and Thermodynamic Studies of the Binding of Bromobenzotriazoles by the Catalytic Subunit of Human Protein Kinase CK2. 2021 , 125, 2491-2503	3
148	Isopiestic Studies on Mixed Ionic Liquid Aqueous Solutions at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 1376-1384	2.8 1
147	Phase equilibria, physical and rheological properties of extracellular polymeric substances in the aqueous urea solutions at different temperatures and concentrations. 2021 , 284, 112103	1
146	Characterizing Proton-Proton Collisions at the Large Hadron Collider with Thermal Properties. 2021 , 3, 207-219	2
145	The dimer-monomer equilibrium of SARS-CoV-2 main protease is affected by small molecule inhibitors. 2021 , 11, 9283	20
144	Data Analysis. 2021 , 45-85	
143	Polyelectrolyte Multilayers for Forward Osmosis, Combining the Right Multilayer and Draw Solution. 2021 , 60, 7331-7341	1
142	Liquid-Liquid Demonstrations: Critical Opalescence. 2021 , 98, 2364-2369	3
141	Analytical solution for wave-induced hydraulic response on subsea shield tunnel. 2021 , 228, 108924	1
140	Label-free imaging flow cytometry: analysis and sorting of enzymatically dissociated tissues.	
139	Liquid-Liquid Demonstrations: Phase Equilibria and the Lever Rule. 2021 , 98, 2356-2363	3
138	High salinity seawater boiling point elevation: Experimental verification. 2021 , 504, 114955	0
137	Resolving Anodic Current and Temperature Distributions in a Polymer Electrolyte Membrane Water Electrolysis Cell Using a Pseudo-Two-Phase Computational Fluid Dynamics Model. 2021 , 168, 054518	2
136	Comment on "The Gibbs free energy of cavity formation in a diverse set of solvents"[J. Chem. Phys. 153, 134501 (2020)]. 2021 , 154, 187101	1

- 135 Thermodynamics from Lagrangian theory and its applications to nanosize particle systems. **2021**, 119,
- 134 Enhanced diffusivity and skewness of a diffusing tracer in the presence of an oscillating wall. **2021**, 8, 1 2
- 133 Virtual thermal feedback system using thermal conductivity. **2021**,
- 132 Heat transfer mechanism driven by acoustic body force under acoustic fields. **2021**, 6, 3
- 131 Recycled windshield glass as new material for producing ultrasonic phantoms of cortical bone-healing stages. **2021**, 7,
- 130 Investigation of Interactions between Sodium Dodecyl Sulfate and L-Tryptophan Through Densimetry and Computer Modeling. **2021**, 95, 1606-1613
- 129 Role of electrolyte-drug interactions in solution behavior of antibiotic drug streptomycin sulphate: Density, speed of sound and viscosity studies. **2021**, 34, 100745 2
- 128 Measurement and PC-SAFT modeling of the water activity for aqueous solutions of D-mannose in some deep eutectic solvents. **2021**, 125, 58-68
- 127 Effect of backbone circularization on colloidal stability: Compaction of unfolded structures improves aggregation resistance of granulocyte colony-stimulating factor. **2021**, 605, 120774 1
- 126 Effect of choline-based ionic liquids on thermodynamic and transport properties of aqueous diphenhydramine hydrochloric acid solutions. **2021**, 337, 116431 1
- 125 Phase-transition behavior of (H₂O)_n=1-4 few-body systems from CarParrinello molecular dynamics. 1-10
- 124 Numerical study of a novel Single-loop pulsating heat pipe with separating walls within the flow channel. **2021**, 196, 117246 8
- 123 Salting- in effect of deep eutectic solvents on the aqueous solutions of D-glucose by using isopiestic method. **2021**, 162, 106559 1
- 122 Transient optimization of annual performance of a photovoltaic thermal system based on accurate estimation of coolant water temperature: A comparison with conventional methods. **2021**, 28, 101395 1
- 121 Nuclear quantum effects on the thermodynamic, structural, and dynamical properties of water. **2021**, 23, 6914-6928 5
- 120 Influence of five model parameters on the performance of a CO₂ absorber column by a loaded aqueous MEA solution. **2021**, 76, 22
- 119 Machine learning for reparameterization of four-site water models: TIP4P-BG and TIP4P-BGT. **2021**, 23, 10164-10173 4
- 118 3.1.0 List of symbols and abbreviations. 233-234 3

117	Physical properties. 1995 , 186-222	10
116	A Determination of the Density and Dilatation of Pure Water of Known Isotopic Composition. 1976 , 615-621	3
115	Correlation Equations for the Vapour Pressure and for the Orthobaric Densities of Water Substance. 1986 , 199-209	2
114	Proposal of the New Skeleton Tables for the Thermodynamic Properties of Water and Steam. 1986 , 71-89	3
113	The Role of Hydration in Stabilization of Liposomes: Resistance to Oxidative Damage of PEG-Grafted Liposomes. 1998 , 147-167	4
112	Physical properties of superheated water at one bar : a base to define the « normal » components of expansivity and compressibility of stable water. 1984 , 45, 373-381	10
111	An efficient and accurate model for water with an improved non-bonded potential. 2020 , 153, 134105	1
110	Investigation of the phenomena occurring near the liquid-vapor interface during evaporation of water at low pressures. 2018 , 3,	5
109	The Thermal Stratification Evaluation of Phase-Change Materials in a Heat Storage Tank: Computational Fluid Dynamics and Experimental Study. 2020 , 142,	1
108	Development and Validation of a Model for Efficient Simulation of Freezing of Water in Large Tanks. 2021 , 13,	1
107	Vapor Pressure of Saturated Aqueous Solutions of Potassium Sulfate from 310 K to 345 K. 2011 , 2011, 1-4	2
106	Point charges optimally placed to represent the multipole expansion of charge distributions. 2013 , 8, e67715	23
105	On the Effect of Sodium Chloride and Sodium Sulfate on Cold Denaturation. 2015 , 10, e0133550	3
104	Assessment of Eggshell Quality Before and After Incubation from 29 and 46 Weeks-old Leghorn Hens. 2011 , 10, 977-982	1
103	Environmental factors controlling stream water temperature in a forest catchment. 2018 , 4, 182-214	3
102	Evolution of a Water Pendant Droplet: Effect of Temperature and Relative Humidity. 2017 , 09, 1-20	5
101	Ultrasound-based density determination via buffer rod techniques: a review. 2013 , 2, 103-125	9
100	The density of seawater as a function of salinity (5 to 70 g kg.	4

- 99 Thermodynamic properties of standard seawater. 5
- 98 Effect of temperature on thermodynamic properties of protic ionic liquids: 2-hydroxy ethylammonium lactate (2-HEAL) + short hydroxylic solvent. **2018**, 21, 70-80 7
- 97 Surface Tension Measurements with High Accuracy. Investigation of Accuracy for Automatic Measurements by the Drop Volume Method.. **2001**, 50, 173-183 4
- 96 Numerical modelling of single-bubble acoustic cavitation in water at saturation temperature. **2021**, 133051 0
- 95 Marangoni convection in an evaporating water droplet. **2021**, 181, 122042 2
- 94 Transfer Thermodynamic Functions Δ_t^0 , Δ_t^0 and $T\Delta_t^0$ of cis- and trans-[CoCl₂(en)₂]⁺ Isomers in Aqueous Mixtures of Methanol, tert-Butyl Alcohol and Acetonitrile. **2000**, 65, 1455-1463 1
- 93 Molecular-Level Modeling of the Structure and Proton Transport within the Membrane Electrode Assembly of Hydrogen Proton Exchange Membrane Fuel Cells. **2010**, 133-202
- 92 Studies on quantitative measurements of acoustical properties of thin biological tissues by multiple reflection-adjusted acoustic microscopy. **2013**, 40, 157-165
- 91 Bio-Relevant Microscopic Liquid Subsurface Water in Planetary Surfaces?. **2013**, 89-112
- 90 Thermodynamic Properties of Superheated Water Deduced from Brillouin Scattering Measurements. **1981**, 765-770
- 89 A Survey of High Accuracy Absolute Density Measurements. **1986**, 153-157
- 88 Thermodynamic Values in the Vicinity of the Specific Volume Anomaly for Water. **1986**, 304-314
- 87 Equations of State and Joule-Thomson Coefficient. **1986**, 315-325
- 86 Thermodynamical Behaviour of Liquid Water near the Triple Point. **1991**, 60, 4181-4198 1
- 85 W_{ice}. **1996**, 301-480
- 84 Development of Temperature-controlled System for Phase-contrast X-ray Imaging and Its Application for X-ray CT Observations. **2019**, 62, 83-87
- 83 Polarizable Water Potential Derived from a Model Electron Density. **2021**, 17, 7056-7084 5
- 82 Interplay between adsorption, aggregation and diffusion in confined core-softened colloids. **2021**, 4, 100029 1

- 81 On the instability of the melting film over a moving hot plate. **2020**, 32, 122107
- 80 Evaluation of Thermal Stratification Inside a New Model of Spherical Water Storage Tank Using a Computational Fluid Dynamics 6 Degrees of Freedom Solver. **2020**, 12,
- 79 Heat extraction study of a novel hydrothermal open-loop geothermal system in a multi-lateral horizontal well. **2021**, 242, 122527 0
- 78 Numerical investigation on the performance characteristics of photovoltaic thermal refrigerator integrating phase change material and water/nanofluid as fluid medium. **2021**, 44, 103453 2
- 77 Figures for 6, References for 6. 6030-6032
- 76 3.1.1 Thermodynamic variables. 234-235
- 75 3.1.16 References for 3.1. 263-264
- 74 Water-Based Nanotechnology. **2008**, 461-473
- 73 Liquid photoacoustic sensing with high sensitivity by temperature compensated differential detection method. **2020**, 13, 117001 1
- 72 Dynamics of a reactive spherical particle falling in a linearly stratified fluid. **2020**, 5,
- 71 Properties of water and ice. **2022**, 31-44
- 70 Anomalous temperature dependence of the experimental x-ray structure factor of supercooled water. **2021**, 155, 214501 3
- 69 Simple equations for predicting volume properties of aqueous concentrated electrolyte mixtures. **1986**, 96, 97-101 2
- 68 Massendichte. **2021**, 55-94
- 67 Experimental and simulation analysis on thermal stratification characteristics in solar storage tanks with phase change materials. **2022**, 46, 103722 1
- 66 Study of thermophysical properties of binary mixtures of N-phenyl ethanolammonium based protic ionic liquids with water and ethanol solvents. **2022**, 2, 100015
- 65 SAXS Reveals the Stabilization Effects of Modified Sugars on Model Proteins.. **2022**, 12, 1
- 64 Investigation of nonlinear photoacoustic microscopy using a low-cost infrared lamp.. **2022**, e202100301

- 63 Mechanistic models for liquid binder evaporation in wet granulation.
- 62 A long-range order in a thermally driven system with temperature-dependent interactions.. **2022**,
- 61 Label-free imaging flow cytometry for analysis and sorting of enzymatically dissociated tissues.. **2022**, 12, 963 1
- 60 Numerical investigation on water evaporation characteristics at low pressures in a stainless steel funnel. **2022**, 175, 107488
- 59 Salinity Contributions from Geothermal Waters to the Rio Grande and Shallow Aquifer System in the Transboundary Mesilla (United States)/Conejos-Mñanos (Mexico) Basin. **2022**, 14, 33 2
- 58 Coldness Presentation Depending on Motion to Enhance the Sense of Presence in a Virtual Underwater Experience. **2022**, 10, 23463-23476
- 57 On Dilatometry of Liquid-Phase Systems. Calibration Criteria.
- 56 Internal Gas Composition and Pressure in As-drawn Hollow Core Optical Fibers. **2022**, 1-1 0
- 55 Thermal, High Pressure, and Ultrasound Inactivation of Various Fruit Cultivars[Polyphenol Oxidase: Kinetic Inactivation Models and Estimation of Treatment Energy Requirement. **2022**, 12, 1864 2
- 54 Temperature dependence of thermodynamic, dynamical, and dielectric properties of water models.. **2022**, 156, 126101 5
- 53 Numerical Simulation of Hydrate Formation in the LARge-Scale Reservoir Simulator (LARS). **2022**, 15, 1974 0
- 52 Densities of the Standard Amino Acids in Aqueous Solutions via Molecular Dynamics Simulations. *Journal of Chemical & Engineering Data*, 2.8
- 51 Evidence of a liquid-liquid phase transition in H[Formula: see text]O and D[Formula: see text]O from path-integral molecular dynamics simulations.. **2022**, 12, 6004 0
- 50 The role of temperature-induced effects generated by plasmonic nanostructures on particle delivery and manipulation: a review. **2022**, 1
- 49 Ordered structures in liquid water: Is cold water a genuine liquid?. 1
- 48 Numerical study of single-loop pulsating heat pipe with porous wicking layer. **2022**, 179, 107614 1
- 47 Spatial correlation analysis between hydraulic conductivity and specific storage in a heterogeneous sandbox by hydraulic tomography. **2022**, 127921 1
- 46 Heat transfer and flow patterns in a minichannel with various acoustic standing wave configurations and thermal boundary conditions. **2022**, 194, 122923

- 45 Polarisation of water under thermal fields: the effect of the molecular dipole and quadrupole moments. o
- 44 A laboratory study of internal gravity waves incident upon slopes with varying surface roughness. **2022**, 942,
- 43 Real-time capable transient model of liquid water dynamics in proton exchange membrane Fuel Cells. **2022**, 541, 231598 o
- 42 X-ray Imaging of Clathrate Hydrates as Gas Storage Materials: Absorption Contrast of Low-Density and Low-Absorption Materials Using Energy-Dependent X-ray Computed Tomography. 1
- 41 Some Clues about Enzymes from Psychrophilic Microorganisms. **2022**, 10, 1161 o
- 40 Horizontal Shower Heat Exchanger as an Effective Domestic Hot Water Heating Alternative. **2022**, 15, 4829 1
- 39 Effect of 1-Butyl-1-methylpyrrolidinium trifluoromethanesulfonate on water activity of ternary aqueous ionic liquid solutions containing [BMIm]Br, [BMIm]Cl, [HMIm]Br, and [HMIm]Cl, at 298.15 K. **2022**, 174, 106858
- 38 Oxygen and Proton Transport in Flooded Graphene Pores with N-Dopants and Defects. **2022**, 126, 11447-11456
- 37 Off-Critical Wetting Layer Divergence at the Liquid / Vapor Interface of Binary Liquid Mixtures.
- 36 Pore pressure built-up in hydrate-bearing sediments during phase transition: A poromechanical approach. **2022**,
- 35 A numerical study of the liquid motion in Titan's subsurface ocean. **2022**, 115219 1
- 34 Application of Quantum Chemical Topology Force Field FFLUX to Condensed Matter Simulations: Liquid Water. 5
- 33 Numerical study on the performance of photovoltaic thermal unit condenser with water/nanofluids as fluids medium. **2022**, 197, 606-616
- 32 Effects of interstitial water on phase transition of forsterite glass. **2022**, 805, 139932
- 31 Thermodynamic Modelling of Mdea(Aq)-Nh3(Aq)-K2co3(Aq)-Co2(Aq) Using the Extended Uniquac Model. o
- 30 Solvent Exchange around Aqueous Zn(II) from Ab Initio Molecular Dynamics Simulations. **2022**, 2, 243-257 o
- 29 Applying SAFT-type models for the anomalous properties of water: Successes and challenges. **2022**, 113617 o
- 28 Investigation of Fluid-dynamics and Mass-transfer in a Bubbly Mixing Layer by Euler-Euler Simulation. **2022**, 118147 1

27	Selectivity of artificial water channel-polyamide composite membranes towards inorganic contaminants. 2022 , 121019	0
26	Probing Surface and Interfacial Tension of Ionic Liquids in Vacuum with the Pendant Drop and Sessile Drop Method. 2022 , 23, 13158	0
25	Improving Condensed-Phase Water Dynamics with Explicit Nuclear Quantum Effects: The Polarizable Q-AMOEBA Force Field. 2022 , 126, 8813-8826	1
24	Mixing Dynamics at the Large Confluence Between the Yangtze River and Poyang Lake. 2022 , 58,	1
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21	Densities, Viscosities, Thermal Expansivities, and Isothermal Compressibilities of Carbonated Hydroalcoholic Solutions for Applications in Sparkling Beverages. 2022 , 126, 10194-10205	0
20	Analytical prediction of leakage-induced ground and tunnel response subject to tidal loading.	0
19	Aggregation propensities of proteins with varying degrees of disorder.	0
18	Development of Thermophysical Property Models for the Aqueous Amino Acid Solution.	0
17	Thermodynamic modeling of MDEA(aq)-NH ₃ (aq)-K ₂ CO ₃ (aq)-CO ₂ (aq) using the Extended UNIQUAC model. 2022 , 126863	0
16	Shape memory behavior of polyacrylate-based amorphous nanocomposite hydrogel under uniaxial tension: Modeling and experimental. 2023 , 252, 110501	0
15	Evaluation of technical and economic potential of waste heat distribution networks in industrial sites. 2023 , 9, 219-226	0
14	Study of Thermodynamic Properties of L-Serine and L-Threonine in Aqueous Solutions of 1-(2-Carboxyethyl)-3-methylimidazolium Chloride [HOOCEMIM][Cl].	0
13	Assessment of flood dynamics in a mountain stream using high-resolution river flow records. 2023 , 37,	0
12	Solid-amorphous transition is related to the waterlike anomalies in a fluid without liquid-liquid phase transition. 2023 , 158, 134501	1
11	Building a Hofmeister-like series for the maximum in density temperature of aqueous electrolyte solutions. 2023 , 377, 121433	0
10	Poly(vinylidene fluoride) membrane with immobilized TiO ₂ for degradation of steroid hormone micropollutants in a photocatalytic membrane reactor. 2023 , 447, 130832	1

- 9 Correlation between protein conformations and water structure and thermodynamics at high pressure: A molecular dynamics study of the Bovine Pancreatic Trypsin Inhibitor (BPTI) protein. **2023**, 158, 095102 ○
- 8 Thermal stratification characteristics during simultaneous charging and discharging for different storage tank geometries with immersed discharging coil. **2023**, 225, 120235 ○
- 7 On the rotation of melting ice disks. ○
- 6 Density anomaly in water-alcohol mixtures: Minimum model for structure makers and breakers. **2023**, 107, ○
- 5 Coarse-Grained Force Field for Polyethylene Oxide and Polyethylene Glycol Aqueous Solutions Based on a Polarizable Water Model. **2023**, 19, 1864-1874 ○
- 4 Hygro-Thermo-Mechanical Analysis of Brick Masonry Walls Subjected to Environmental Actions. **2023**, 13, 4514 ○
- 3 A NEW EQUATION OF STATE FOR WATER AS A CANDIDATE FOR THE NEW SCIENTIFIC FORMULATION OF IAPWS. **2023**, ○
- 2 How Dimensionality Affects the Structural Anomaly in a Core-Softened Colloid. **2023**, 7, 33 ○
- 1 Thermohaline equation of state for pure water, seawater and brine. **2023**, 61, 211-219 ○