Compression of Mercury at High Pressure

Journal of Chemical Physics 46, 2650-2660 DOI: 10.1063/1.1841095

Citation Report

#	Article	IF	CITATIONS
1	Some elastic constant data on minerals relevant to geophysics. Reviews of Geophysics, 1968, 6, 491-524.	23.0	481
2	Measurement of the volume dependence of the absolute thermoelectric power of liquid mercury. Physics Letters, Section A: General, Atomic and Solid State Physics, 1968, 27, 587-588.	2.1	7
3	The equation of state and electrical resistivity of liquid mercury at elevated temperatures and pressures. Philosophical Magazine and Journal, 1968, 18, 519-530.	1.7	44
4	Remote Control Viscometer. Review of Scientific Instruments, 1968, 39, 524-528.	1.3	1
5	Pressure Dependence of the Plastic Flow Stress of Alkali Halide Single Crystals. Journal of Applied Physics, 1968, 39, 3885-3897.	2.5	65
6	The Compression of Liquids. , 1968, , 421-500.		1
7	Liquid metals and vapours under pressure. Progress in Materials Science, 1969, 14, 175-242.	32.8	43
8	Comments on the interrelationships between Grüneisen's parameter and shock and isothermal equations of state. Journal of Geophysical Research, 1969, 74, 1439-1450.	3.3	129
9	Review of Some Experimental and Analytical Equations of State. Reviews of Modern Physics, 1969, 41, 316-349.	45.6	237
10	The hard-sphere model for a liquid metal a comparison with experiment. Philosophical Magazine and Journal, 1970, 22, 573-582.	1.7	19
11	Direct measurement of thermal expansion of sea water under pressure. Deep Sea Research and Oceanographic Abstracts, 1970, 17, 691-706.	0.3	18
12	Pseudo-Grüneisen Parameter for Liquids. Physical Review B, 1970, 1, 3893-3895.	3.2	64
13	How to measure the isothermal compressibility of liquids accurately. Journal Physics D: Applied Physics, 1971, 4, 938-950.	2.8	41
14	PVT Properties of Water and Mercury. Journal of Chemical Physics, 1971, 54, 3983-3989.	3.0	200
15	Precise determination of the isothermal compressibility of mercury at 20 \$deg\$C and 192 bar. Journal Physics D: Applied Physics, 1971, 4, 951-955.	2.8	20
16	A Fringeâ€Counting Pulsed Ultrasonic Interferometer. Review of Scientific Instruments, 1971, 42, 983-986.	1.3	24
17	Direkte Bestimmung der Druckabhägigkeit der Thermospannung flüssigen Quecksilbers. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1971, 75, 503-506.	0.9	5
18	Acoustic densitometer with results for polyethylene oxide. Journal of Applied Physics, 1974, 45, 1-8.	2.5	21

TATION REDO

#	Article	IF	CITATIONS
19	An Experimental Canned Pump for Compressed Water at Pressures up to 100 Megapascals. Journal of Mechanical Engineering Science, 1974, 16, 339-345.	0.2	1
20	The Heat Capacity of Liquid Metals. Physica Scripta, 1975, 11, 381-382.	2.5	37
21	Equation of state of liquid rubidium. Philosophical Magazine and Journal, 1975, 31, 1253-1261.	1.7	6
22	Conformational contribution to the entropy of melting. I. Linear chain hydrocarbons. Journal of Chemical Physics, 1975, 62, 1668-1673.	3.0	32
23	Determination of the pressure-volume-temperature (PVT) surface of Isopar-M: a quatitative evaluation of its use to float deep-sea instruments. Deep Sea Research and Oceanographic Abstracts, 1976, 23, 989-993.	0.3	0
24	A note on the equation of state and the triplet and higher correlations in the long wavelength limit for liquid metals. Chemical Physics Letters, 1976, 44, 253-254.	2.6	2
25	Pressure dependence of the thermodynamical Grüneisen parameter of fluids. Journal of Applied Physics, 1977, 48, 4183-4186.	2.5	91
26	Application of Soft-Sphere Equation of State to Liquid Mercury. Physics and Chemistry of Liquids, 1979, 8, 283-288.	1.2	3
27	A1 - L14. , 0, , 359-368.		0
28			
20	The compression of liquids. Physics and Chemistry of the Earth, 1981, 13-14, 273-294.	0.3	3
29	The compression of liquids. Physics and Chemistry of the Earth, 1981, 13-14, 273-294. Finite strain theories and comparisons with seismological data. Geophysical Surveys, 1981, 4, 189-232.	0.3	3
29	Finite strain theories and comparisons with seismological data. Geophysical Surveys, 1981, 4, 189-232. Determination of the nonlinearity parameters for liquids using thermodynamic constants. Journal of	0.2	178
29 30	Finite strain theories and comparisons with seismological data. Geophysical Surveys, 1981, 4, 189-232. Determination of the nonlinearity parameters for liquids using thermodynamic constants. Journal of the Acoustical Society of America, 1982, 71, 330-333.	0.2	178 9
29 30 31	 Finite strain theories and comparisons with seismological data. Geophysical Surveys, 1981, 4, 189-232. Determination of the nonlinearity parameters for liquids using thermodynamic constants. Journal of the Acoustical Society of America, 1982, 71, 330-333. An equation of state for gases and liquids. Thermochimica Acta, 1982, 59, 167-174. An improved mercury porosimetry apparatus â€" some magnetic tape applications. Powder Technology, 	0.2 1.1 2.7	178 9 5
29 30 31 32	 Finite strain theories and comparisons with seismological data. Geophysical Surveys, 1981, 4, 189-232. Determination of the nonlinearity parameters for liquids using thermodynamic constants. Journal of the Acoustical Society of America, 1982, 71, 330-333. An equation of state for gases and liquids. Thermochimica Acta, 1982, 59, 167-174. An improved mercury porosimetry apparatus â€" some magnetic tape applications. Powder Technology, 1983, 36, 203-213. Pressure-Volume-Temperature Relations of Supercooled Liquid and Glass of Triphenylchloromethane/o-Terphenyl Mixture. Bulletin of the Chemical Society of Japan, 1983, 56, 	0.2 1.1 2.7 4.2	178 9 5 6
29 30 31 32 33	 Finite strain theories and comparisons with seismological data. Geophysical Surveys, 1981, 4, 189-232. Determination of the nonlinearity parameters for liquids using thermodynamic constants. Journal of the Acoustical Society of America, 1982, 71, 330-333. An equation of state for gases and liquids. Thermochimica Acta, 1982, 59, 167-174. An improved mercury porosimetry apparatus â€" some magnetic tape applications. Powder Technology, 1983, 36, 203-213. Pressure-Volume-Temperature Relations of Supercooled Liquid and Class of Triphenylchloromethane/o-Terphenyl Mixture. Bulletin of the Chemical Society of Japan, 1983, 56, 3549-3555. PVT properties of liquids and liquid mixtures: a review of the experimental methods and the literature 	0.2 1.1 2.7 4.2 3.2	178 9 5 6 4

#	Article	IF	CITATIONS
37	Acoustic and Thermodynamic Properties of Benzene and Cyclohexane as a Function of Pressure and Temperature. Physics and Chemistry of Liquids, 1987, 16, 163-178.	1.2	64
38	The Speed of Sound in a Mercury Ultrasonic Interferometer Manometer. Metrologia, 1987, 24, 121-131.	1.2	30
39	Static compression and equation of state of CaO to 1.35 Mbar. Journal of Geophysical Research, 1988, 93, 15279-15288.	3.3	128
40	Acoustic and Thermodynamic Properties of Ethanol from 273.15 to 333.1 5 K and up to 280 MPa. Physics and Chemistry of Liquids, 1988, 18, 107-116.	1.2	113
41	Some elastic constant data on minerals relevant to geophysics. , 1988, , 237-270.		2
42	A vibrating-rod densimeter. International Journal of Thermophysics, 1989, 10, 871-883.	2.1	15
43	Experimental Equations of State for Some Organic Liquids Between 273 and 333 K and Up to 280 MPa. Physics and Chemistry of Liquids, 1990, 21, 231-237.	1.2	19
44	Volume and thermal expansion of mercury in the temperature range 0–150°C & pressure range 0–8 K bar. Journal of Non-Crystalline Solids, 1990, 117-118, 563-566.	3.1	3
45	Evaluation of the Thermophysical Properties of Toluene and nâ€Heptane from 180 to 320 K and up to 260 MPa from Speedâ€ofâ€Sound Data. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1991, 95, 696-704.	0.9	44
46	Theoretical analysis of an ultrasonic interferometer for precise measurements at high pressures. Ultrasonics, 1991, 29, 119-124.	3.9	63
47	Semiempirical equation of state and the Grüneisen parameter for polymers and rare gas solids. Polymer, 1991, 32, 3170-3176.	3.8	8
48	Thermophysical properties of liquid n-hexane at temperatures from 243 K to 473 K and at pressures to 500 MPa. Journal of Chemical Thermodynamics, 1991, 23, 247-259.	2.0	30
49	Determination of the thermodynamic properties of liquid ethanol from 193 to 263 K and up to 280 MPa from speed-of-sound measurements. International Journal of Thermophysics, 1991, 12, 381-395.	2.1	35
50	An equation of state applied to liquids. Journal of Physics Condensed Matter, 1991, 3, 4099-4103.	1.8	9
51	Determination of the equation of state and heat capacity of argon at high pressures from speedâ€ofâ€sound data. Journal of Chemical Physics, 1991, 94, 2130-2135.	3.0	21
52	Predicting the equation of state of condensed materials through use of low-pressure expansion and room-temperature compression data. Journal of Physics and Chemistry of Solids, 1992, 53, 857-864.	4.0	9
53	Accurate measurements of the sound velocity in pure water by combining a coherent phaseâ€detection technique and a variable pathâ€length interferometer. Journal of the Acoustical Society of America, 1993, 93, 276-282.	1.1	65
54	Thermodynamic properties of liquid mixtures containing gas under pressure based on ultrasonic measurements. Fluid Phase Equilibria, 1994, 100, 269-282.	2.5	25

	C	CITATION REPORT	
#	Article	IF	Citations
55	Density, Thermal Expansion and Compressibility of Mercury. Metrologia, 1994, 30, 665-668.	1.2	26
56	Ultrasonic approach to obtaining partial thermodynamic characteristics of solutions. Ultrasonics, 1995, 33, 301-310.	3.9	3
57	Universal compressibility behavior of dense phases. Physical Review B, 1995, 51, 28-37.	3.2	78
58	The pressure and temperature dependence of the velocity of sound in liquid metals. Journal of Physic Condensed Matter, 1996, 8, 10891-10897.	cs 1.8	5
59	Compressibilities of ternary mixtures C1-nC16-CO2 under pressure from ultrasonic measurements o sound speed. International Journal of Thermophysics, 1996, 17, 851-871.	f 2.1	11
60	An automated high pressure PVT apparatus for continuous recording of density and isothermal compressibility of fluids. Review of Scientific Instruments, 1996, 67, 244-250.	1.3	11
61	Temperature-dependent equation of state of condensed matter. Journal of Physics Condensed Matte 1997, 9, 2987-2998.	er, 1.8	10
62	Equation of state of liquid metals from sound-velocity measurements. Physical Review B, 1997, 55, 8042-8044.	3.2	18
63	Systematics of thermodynamic data on solids: Thermochemical and pressure-volume-temperature properties of some minerals. Geochimica Et Cosmochimica Acta, 1997, 61, 4151-4158.	3.9	13
64	An analytical equation of state for mercury. International Journal of Thermophysics, 1997, 18, 1329-1334.	2.1	18
65	Speed of sound, density, and compressibilities of heavy synthetic cuts from ultrasonic measurement under pressure. Journal of Chemical Thermodynamics, 1998, 30, 607-623.	S 2.0	75
66	High Pressure Ultrasonic Speed and Related Properties in Petroleum Cuts. , 1998, , 88-94.		0
67	Work towards a new mercury column for high pressure. Metrologia, 1999, 36, 511-515.	1.2	0
68	Thermophysical properties of petroleum distillation fractions up to 150 MPa. Comparative analysis o some equations of state. Physica B: Condensed Matter, 1999, 265, 282-286.	f 2.7	0
69	An equation of state and non-linear parameter from sound velocity measurements for liquid alkali metals. Pramana - Journal of Physics, 1999, 52, 321-332.	1.8	5
70	Speed of sound, density, and compressibility of petroleum fractions from ultrasonic measurements under pressure. Journal of Chemical Thermodynamics, 1999, 31, 987-1000.	2.0	5
71	Acoustic Determination of Thermodynamic Properties of Ternary Liquid Mixtures Up to 150 Mpa. Physics and Chemistry of Liquids, 1999, 37, 137-160.	1.2	26
72	Title is missing!. International Journal of Thermophysics, 2000, 21, 173-184.	2.1	61

#	Article	IF	CITATIONS
73	Title is missing!. Journal of Thermal Analysis and Calorimetry, 2000, 62, 621-632.	3.6	34
74	A high pressure device for measurements of the speed of sound in liquids. Review of Scientific Instruments, 2000, 71, 1756-1765.	1.3	53
75	Speed of sound, density, and compressibilities of liquid eicosane and docosane at various temperatures and pressures. High Temperatures - High Pressures, 2001, 33, 371-378.	0.3	22
76	The temperature, pressure and time dependence of lubricant viscosity. Tribology International, 2001, 34, 461-468.	5.9	71
77	High-pressure speed of sound and compressibilities in heavy normal hydrocarbons:n-C23H48andn-C24H50. Journal of Chemical Thermodynamics, 2001, 33, 765-774.	2.0	33
78	Title is missing!. International Journal of Thermophysics, 2001, 22, 427-443.	2.1	84
79	Thermodynamic Properties of Liquid <i>n</i> -Pentadecane. Physics and Chemistry of Liquids, 2001, 39, 301-313.	1.2	22
80	Measurement of the B/A nonlinearity parameter under high pressure: Application to water. Journal of the Acoustical Society of America, 2002, 111, 707-715.	1.1	22
81	Speed of Sound, Density, and Compressibility of Alkylbenzenes as a Function of Pressure and Temperature:  Tridecylbenzene and Pentadecylbenzene. Journal of Chemical & Engineering Data, 2002, 47, 1532-1536.	1.9	8
82	High-pressure speed of sound, density and compressibility of heavy normal paraffins: C 28H58 and C 36H 74. Journal of Chemical Thermodynamics, 2002, 34, 475-484.	2.0	41
83	Adiabatic compressibility and intrinsic viscosity studies on peptide aggregates. International Journal of Peptide Research and Therapeutics, 2002, 9, 167-172.	0.1	1
84	Phase behavior and physical properties of petroleum reservoir fluids from acoustic measurements. Journal of Petroleum Science and Engineering, 2002, 34, 1-11.	4.2	18
85	Corresponding-states correlation for the saturated liquid density of metals and metal mixtures. Fluid Phase Equilibria, 2002, 201, 57-65.	2.5	13
86	Pressure Dependence of the Thermophysical Properties of n-Pentadecane and n-Heptadecane. International Journal of Thermophysics, 2002, 23, 697-708.	2.1	45
87	Adiabatic compressibility and intrinsic viscosity studies on peptide aggregates. International Journal of Peptide Research and Therapeutics, 2002, 9, 167-172.	0.1	2
88	Title is missing!. International Journal of Thermophysics, 2003, 24, 639-649.	2.1	9
89	Compressibilities of liquid pentadecylcyclohexane and nonadecylcyclohexane from high pressure speed of sound and density measurements. Journal of Chemical Thermodynamics, 2003, 35, 1613-1622.	2.0	2
90	Speed of Sound. Experimental Thermodynamics, 2003, , 237-323.	0.1	11

#	Article	IF	CITATIONS
91	Thermophysical Properties of Two Poly(alkylene glycol) Derivative Lubricants from High Pressure Acoustic Measurements. Journal of Chemical & Engineering Data, 2003, 48, 1208-1213.	1.9	11
92	Determination of Isobaric Thermal Expansivity of Organic Compounds from 0.1 to 30 MPa at 30 °C with an Isothermal Pressure Scanning Microcalorimeter. Journal of Chemical & Engineering Data, 2003, 48, 892-897.	1.9	12
93	Pressure-Viscosity Relationships for Elastohydrodynamics. Tribology Transactions, 2003, 46, 289-295.	2.0	99
94	The Effect of Pressure on the Thermodynamic Properties of Propan-1-ol + n-Heptane Mixtures. Journal of Solution Chemistry, 2004, 33, 529-548.	1.2	30
95	New method for deriving accurate thermodynamic properties from speed-of-sound. Journal of Chemical Thermodynamics, 2004, 36, 419-429.	2.0	16
96	Speed of Sound, Density, and Compressibility of Alkyl-Benzenes as a Function of Pressure and Temperature:  Heptadecylbenzene and Octadecylbenzene. Journal of Chemical & Engineering Data, 2004, 49, 983-987.	1.9	3
97	Thermodynamic and acoustic properties of binary mixtures of alcohols and alkanes. I. Speed of sound in (ethanol+n-heptane) under elevated pressures. Journal of Chemical Thermodynamics, 2005, 37, 405-414.	2.0	42
98	Thermodynamic and acoustic properties of binary mixtures of alcohols and alkanes. II. Density and heat capacity of (ethanol+n-heptane) under elevated pressures. Journal of Chemical Thermodynamics, 2005, 37, 826-836.	2.0	42
99	Propagation of Pressure Waves, Caused by a Thermal Shock, in Liquid Metals Containing Gas Bubbles. , 2005, , 575.		4
100	A modified Lennard-Jones-type equation of state for solids strictly satisfying the spinodal condition. Journal of Physics Condensed Matter, 2005, 17, L103-L111.	1.8	22
101	High pressure equations of state and planetary interiors. Reports on Progress in Physics, 2005, 68, 341-383.	20.1	156
102	Modification to the Newton-Laplace formula of sound velocity at high pressure. Applied Physics Letters, 2006, 89, 121922.	3.3	5
103	Propagation of Pressure Waves, Caused by a Thermal Shock, in Liquid Metals Containing Gas Bubbles. 880-02 Nihon Kikai Gakkai Ronbunshū Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 885-892.	0.2	3
104	Temperature and Pressure Dependences of Thermophysical Properties of Some Ethylene Glycol Dimethyl Ethers from Ultrasonic Measurements. International Journal of Thermophysics, 2006, 27, 1354-1372.	2.1	20
105	Study of the volumetric properties of weakly associated alcohols by means of high-pressure speed of sound measurements. Journal of Chemical Thermodynamics, 2006, 38, 893-899.	2.0	21
106	Applicability of isothermal unrealistic two-parameter equations of state for solids. Journal of Physics Condensed Matter, 2006, 18, 10481-10508.	1.8	6
107	Semiempirical pressure-volume-temperature equation of state: MgSiO3 perovskite is an example. Journal of Applied Physics, 2007, 102, 123506.	2.5	10
108	Study of the Acoustic and Thermodynamic Properties of 1,2- and 1,3-Butanediol by Means of High-Pressure Speed of Sound Measurements at Temperatures from (293 to 318) K and Pressures up to 101 MPa. Journal of Chemical & Engineering Data, 2007, 52, 1010-1017.	1.9	38

#	Article	IF	CITATIONS
109	Accurate Global Thermophysical Characterization of Hydrofluoroethers through a Statistical Associating Fluid Theory Variable Range Approach, Based on New Experimental High-Pressure Volumetric and Acoustic Data. Industrial & Engineering Chemistry Research, 2007, 46, 6998-7007.	3.7	21
110	Speeds of Sound, Densities, Isobaric Thermal Expansion, Compressibilities, and Internal Pressures of Heptan-1-ol, Octan-1-ol, Nonan-1-ol, and Decan-1-ol at Temperatures from (293 to 318) K and Pressures up to 100 MPa. Journal of Chemical & Engineering Data, 2007, 52, 521-531.	1.9	82
111	Development of a fundamental equation of state for the liquid region of a pure fluid from speed of sound measurements. Application to water. Experimental Thermal and Fluid Science, 2007, 31, 539-549.	2.7	5
112	Thermodynamic and acoustic properties of (heptane+dodecane) mixtures under elevated pressures. Journal of Chemical Thermodynamics, 2008, 40, 1531-1541.	2.0	32
113	A new method to calculate the thermodynamical properties of liquids from accurate speed-of-sound measurements. Journal of Chemical Thermodynamics, 2008, 40, 1558-1564.	2.0	11
114	The effect of temperature and pressure on the physicochemical properties of petroleum diesel oil and biodiesel fuel. Fuel, 2008, 87, 1941-1948.	6.4	135
115	Two-phase flow model for energetic proton beam induced pressure waves in mercury target systems in the planned European Spallation Source. European Physical Journal B, 2008, 66, 419-426.	1.5	5
116	Thermodynamic properties of isomeric pentanols under elevated pressures determined by the acoustic method. European Physical Journal: Special Topics, 2008, 154, 271-274.	2.6	5
117	Ruby under pressure. High Pressure Research, 2008, 28, 75-126.	1.2	367
118	Study of the Acoustic and Thermodynamic Properties of 1,2- and 1,3-Propanediol by Means of High-Pressure Speed of Sound Measurements at Temperatures from (293 to 318) K and Pressures up to 101 MPa. Journal of Chemical & Engineering Data, 2008, 53, 136-144.	1.9	62
119	Volumetric properties of the glycyl group of proteins in aqueous solution at high pressures. Physical Chemistry Chemical Physics, 2008, 10, 884-897.	2.8	19
120			1
	Thermodynamics, structure, dynamics, and freezing of Mg2SiO4 liquid at high pressure. Geochimica Et Cosmochimica Acta, 2008, 72, 1427-1441.	3.9	127
122	 Thermodynamics, structure, dynamics, and freezing of Mg2SiO4 liquid at high pressure. Geochimica Et Cosmochimica Acta, 2008, 72, 1427-1441. Study of the Effects of Temperature and Pressure on the Acoustic and Thermodynamic Properties of 2-Methyl-2,4-pentanediol. Journal of Chemical & amp; Engineering Data, 2008, 53, 1950-1955. 	3.9 1.9	127 21
122 123	Cosmochimica Acta, 2008, 72, 1427-1441. Study of the Effects of Temperature and Pressure on the Acoustic and Thermodynamic Properties of		
	Cosmochimica Acta, 2008, 72, 1427-1441. Study of the Effects of Temperature and Pressure on the Acoustic and Thermodynamic Properties of 2-Methyl-2,4-pentanediol. Journal of Chemical & amp; Engineering Data, 2008, 53, 1950-1955. Propagation of Pressure Waves, Caused by a Thermal Shock, in Liquid Metals Containing Gas Bubbles.	1.9	21
123	Cosmochimica Acta, 2008, 72, 1427-1441. Study of the Effects of Temperature and Pressure on the Acoustic and Thermodynamic Properties of 2-Methyl-2,4-pentanediol. Journal of Chemical & amp; Engineering Data, 2008, 53, 1950-1955. Propagation of Pressure Waves, Caused by a Thermal Shock, in Liquid Metals Containing Gas Bubbles. Journal of Fluid Science and Technology, 2008, 3, 116-128. Shock adiabat, phase diagram, and viscosity of mercury at a pressure up to 50 GPa. High Temperature,	1.9 0.6	21 26
123 124	Cosmochimica Acta, 2008, 72, 1427-1441. Study of the Effects of Temperature and Pressure on the Acoustic and Thermodynamic Properties of 2-Methyl-2,4-pentanediol. Journal of Chemical & amp; Engineering Data, 2008, 53, 1950-1955. Propagation of Pressure Waves, Caused by a Thermal Shock, in Liquid Metals Containing Gas Bubbles. Journal of Fluid Science and Technology, 2008, 3, 116-128. Shock adiabat, phase diagram, and viscosity of mercury at a pressure up to 50 GPa. High Temperature, 2009, 47, 201-205. Measurement under high pressure of the nonlinearity parameter B/A in glycerol at various	1.9 0.6 1.0	21 26 1

#	Article	IF	CITATIONS
128	Study of the Effects of Temperature and Pressure on the Thermodynamic and Acoustic Properties of Pentan-1-ol, 2-Methyl-2-butanol, and Cyclopentanol in the Pressure Range from (0.1 to 100) MPa and Temperature from (293 to 318) K. Journal of Chemical & Engineering Data, 2009, 54, 1034-1040.	1.9	29
129	Liquid mercury sound velocity measurements under high pressure and high temperature by picosecond acoustics in a diamond anvils cell. Review of Scientific Instruments, 2009, 80, 073902.	1.3	17
130	Measurements under high pressure of ultrasonic wave velocity in glycerol. , 2009, , .		3
131	What You Always Wanted to Know about Heat Capacities, but Were Afraid to Ask. Journal of Solution Chemistry, 2010, 39, 1777-1818.	1.2	30
132	Study of the Effects of Temperature and Pressure on the Thermodynamic and Acoustic Properties of 2-Methyl-1-butanol at Temperatures from 293K to 318K and Pressures up to 100MPa. International Journal of Thermophysics, 2010, 31, 55-69.	2.1	7
133	Thermodynamic and Acoustic Properties of 1,3-Dibromopropane and 1,5-Dibromopentane within the Temperature Range From 293K to 313K at Pressures up to 100MPa. International Journal of Thermophysics, 2010, 31, 26-41.	2.1	15
134	Speed of sound, density, and heat capacity for (2-methyl-2-butanol+heptane) at pressures up to 100MPa and temperatures from (293 to 318)K. Experimental results and theoretical investigations. Journal of Chemical Thermodynamics, 2010, 42, 312-322.	2.0	8
135	Speed of sound prediction in 1â^'n-alcohol+n-alkane mixtures using a translated SAFT-VR-Mie equation of state. Fluid Phase Equilibria, 2010, 288, 145-154.	2.5	27
136	<mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:mi>P</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mi>V</mml:mi> of state of solids: Density functional theory calculations and LDA versus GGA scaling. Physical Review B, 2010, 81, .</mml:mrow></mml:mrow></mml:math>	mml:mo>)<
137	Fuel Injection Systems. , 2010, , 127-174.		5
138	Heat Capacities and Brillouin Scattering in Liquids. , 2010, , 238-263.		3
139	Heat Capacities and Related Properties of Liquid Mixtures. , 2010, , 54-85.		7
140	Speed-of-Sound Measurements and Heat Capacities of Liquid Systems at High Pressure. , 2010, , 218-237.		6
141	A perturbed hard-sphere equation of state for liquid metals. Physics and Chemistry of Liquids, 2011, 49, 347-354.	1.2	7
142	Acoustic and Thermodynamic Properties of 2-Ethyl-1-hexanol by Means of High-Pressure Speed of Sound Measurements at Temperatures from (293 to 318) K and Pressures up to 101 MPa. Journal of Chemical & Engineering Data, 2011, 56, 2680-2686.	1.9	14
143	Thermal expansion coefficient and specific heat capacity from sound velocity measurements in tomato paste from 0.1 up to 350MPa and as a function of temperature. Journal of Food Engineering, 2011, 104, 341-347.	5.2	7
144	Evaluation of the third order nonlinear parameter C/A for glycerol from measurements of ultrasonic velocity versus temperature and pressure. , 2012, , .		0
145	Equations of State for Solids over Wide Ranges of Pressure and Temperature. Scottish Graduate Series, 2012, , 81-94.	0.1	1

#	Article	IF	CITATIONS
146	The effect of temperature and pressure on acoustic and thermodynamic properties of 1,4-butanediol. The comparison with 1,2-, and 1,3-butanediols. Journal of Chemical Thermodynamics, 2012, 54, 100-107.	2.0	45
147	High pressure thermophysical characterization of fuel used for testing and calibrating diesel injection systems. Fuel, 2012, 98, 288-294.	6.4	41
148	Speed of Sound, Density, and Derivative Properties of Fatty Acid Methyl and Ethyl Esters under High Pressure: Methyl Caprate and Ethyl Caprate. Journal of Chemical & Engineering Data, 2012, 57, 2667-2676.	1.9	66
149	Melting of cubic boron nitride at extreme pressures. Journal of Physics Condensed Matter, 2012, 24, 055401.	1.8	6
150	Second-Order Derivatives of the Gibbs Energy for Liquid Mixtures of Alcohol + Heptane at Pressures up to 100ÂMPa. International Journal of Thermophysics, 2012, 33, 583-626.	2.1	0
151	Equation of state for mercury: revisited. Physics and Chemistry of Liquids, 2013, 51, 517-523.	1.2	6
152	High Pressure Density and Speed of Sound in Two Biodiesel Fuels. Journal of Chemical & Engineering Data, 2013, 58, 3392-3398.	1.9	31
153	Density, speed of sound, heat capacity, and related properties of 1-hexanol and 2-ethyl-1-butanol as function of temperature and pressure. Journal of Chemical Thermodynamics, 2013, 58, 389-397.	2.0	29
154	A novel application of Recursive Equation Method for determining thermodynamic properties of single phase fluids from density and speed-of-sound measurements. Journal of Chemical Thermodynamics, 2013, 58, 422-427.	2.0	5
155	High pressure physicochemical properties of biodiesel components used for spray characteristics in diesel injection systems. Fuel, 2013, 111, 165-171.	6.4	49
156	High-Pressure Physicochemical Properties of Ethyl Caprylate and Ethyl Caprate. Journal of Chemical & Engineering Data, 2013, 58, 1955-1962.	1.9	70
157	Macroscopic Expressions of Molecular Adiabatic Compressibility of Methyl and Ethyl Caprate under High Pressure and High Temperature. Abstract and Applied Analysis, 2014, 2014, 1-10.	0.7	2
158	CHAPTER 1. Volumetric Properties: Introduction, Concepts and Selected Applications. , 2014, , 1-72.		2
159	Chemical Thermodynamics: A Journey of Many Vistas. Journal of Solution Chemistry, 2014, 43, 525-576.	1.2	14
160	Equation of state of liquid mercury to 520 K and 7 GPa from acoustic velocity measurements. Journal of Chemical Physics, 2014, 140, 244201.	3.0	22
161	Speed of Sound in (Carbon Dioxide + Propane) and Derived Sound Speed of Pure Carbon Dioxide at Temperatures between (248 and 373) K and at Pressures up to 200 MPa. Journal of Chemical & Engineering Data, 2014, 59, 4099-4109.	1.9	22
162	The Effect of Pressure and Temperature on the Second-Order Derivatives of the Free Energy Functions for Lower Alkanediols. International Journal of Thermophysics, 2014, 35, 890-913.	2.1	6
163	Equation of state model for studying high-pressure compression behaviour of nanomaterials. Journal of Taibah University for Science, 2014, 8, 137-141.	2.5	2

#	Article	IF	CITATIONS
164	Structural changes in thermoelectric SnSe at high pressures. Journal of Physics Condensed Matter, 2015, 27, 072202.	1.8	56
165	Thermodynamic properties of liquid gallium from picosecond acoustic velocity measurements. Journal of Physics Condensed Matter, 2015, 27, 275103.	1.8	22
166	Thermodynamic Properties of 1,2-Dichloroethane and 1,2-Dibromoethane under Elevated Pressures: Experimental Results and Predictions of a Novel DIPPR-Based Version of FT-EoS, PC-SAFT, and CP-PC-SAFT. Industrial & Engineering Chemistry Research, 2015, 54, 9645-9656.	3.7	31
167	Picosecond acoustics method for measuring the thermodynamical properties of solids and liquids at high pressure and high temperature. Ultrasonics, 2015, 56, 129-140.	3.9	24
168	High pressure physicochemical properties of 2-methylfuran and 2,5-dimethylfuran – second generation biofuels. Fuel, 2016, 184, 334-343.	6.4	47
169	Synthesis of mercury (Hg) nano range particles. , 2016, , .		0
170	Thermodynamic properties of a CO2 – rich mixture (CO2+CH3OH) in conditions of interest for carbon dioxide capture and storage technology and other applications. Journal of Chemical Thermodynamics, 2016, 98, 272-281.	2.0	4
171	Equation of state for water and its line of density maxima down to â^'120 MPa. Physical Chemistry Chemical Physics, 2016, 18, 5896-5900.	2.8	45
172	Determination of Volumetric Properties Using Refractive Index Measurements for Nonpolar Hydrocarbons and Crude Oils. Industrial & Engineering Chemistry Research, 2017, 56, 3107-3115.	3.7	10
173	Equation of state of liquid bismuth and its melting curve from ultrasonic investigation at high pressure. Physica B: Condensed Matter, 2017, 524, 154-162.	2.7	11
174	Thermodynamic properties of liquid sodium under high pressure. AIP Advances, 2017, 7, .	1.3	7
175	Fully automatized apparatus for determining speed of sound for liquids in the temperature and pressure interval (283.15–343.15) K and (0.1–95) MPa. Journal of Chemical Thermodynamics, 2017, 104, 102-109.	2.0	20
176	Thermodynamic properties of San Carlos olivine at high temperature and high pressure. Acta Geochimica, 2018, 37, 171-179.	1.7	11
177	Computation of Liquid Isothermal Compressibility from Density Measurements: An Application to Toluene. Journal of Chemical & Engineering Data, 2018, 63, 2162-2178.	1.9	24
178	Compression/dilation of condensed matter vis-Ã-vis an ideal symmetric material. Physical Review B, 2018, 98, .	3.2	0
179	Recent advances in thermophysical properties—measurements, prediction, and importance. Current Opinion in Food Science, 2018, 23, 142-148.	8.0	4
180	Speed-of-Sound Measurements and Derived Thermodynamic Properties of Liquid Isobutane. Journal of Chemical & Engineering Data, 2018, 63, 3684-3703.	1.9	4
181	Density, sound speed and derived thermophysical properties of n-nonane at temperatures between (283.15 and 473.15)â€K and at pressures up to 390†MPa. Journal of Chemical Thermodynamics, 2018, 124, 107-122.	2.0	22

ARTICLE

IF CITATIONS

182 Equations of State for the Deep Earth: Some Fundamental Considerations. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 742 To 2.0 kg state for the Deep Earth: Some Fundamental Considerations. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 742 To 2.0 kg state for the Deep Earth: Some Fundamental Considerations.

183	The modified van der Waals equation of state. European Physical Journal B, 2019, 92, 1.	1.5	4
184	Thermodynamic properties of cumene, tert-butylbenzene, and n-hexadecane under elevated pressures. Journal of Chemical Thermodynamics, 2019, 134, 96-105.	2.0	7
185	Effects of temperature and pressure on the optical and vibrational properties of thermoelectric SnSe. Physical Chemistry Chemical Physics, 2019, 21, 8663-8678.	2.8	20
186	Viscosities of some fatty acid esters and biodiesel fuels from a rough hard-sphere-chain model and artificial neural network. Fuel, 2019, 235, 1083-1091.	6.4	35
187	Thermodynamics with the Grüneisen parameter: Fundamentals and applications to high pressure physics and geophysics. Physics of the Earth and Planetary Interiors, 2019, 286, 42-68.	1.9	53
188	Thermophysical Properties of 1-Butanol at High Pressures. Energies, 2020, 13, 5046.	3.1	7
189	Speed of sound and derived thermodynamic properties of glycerol. Journal of Chemical Thermodynamics, 2021, 156, 106367.	2.0	9
190	Compressional Study of Mercury Through Thermodynamic and Thermoacoustical Parameters. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2022, 92, 7-11.	1.2	0
191	Heat capacity ratio in liquids at high pressure. Journal of Applied Physics, 2021, 129, .	2.5	5
192	Self-consistent thermodynamic parameters of pyrope and almandine at high-temperature and high-pressure conditions: Implication on the adiabatic temperature gradient. Physics of the Earth and Planetary Interiors, 2022, 322, 106789.	1.9	5
193	Transmission of Sound in Molten Metals. Physical Acoustics, 1968, , 53-97.	0.0	19
194	THE COMPRESSION OF LIQUIDS. , 1975, , 421-500.		8
195	Heat Capacity and Internal Pressure of Cyclopentanol at Pressures up to 100 MPa Determined by the Acoustic Method. Acta Physica Polonica A, 2008, 114, A-75-A-80.	0.5	7
196	Ultrasound-based density determination via buffer rod techniques: a review. Journal of Sensors and Sensor Systems, 2013, 2, 103-125.	0.9	12
197	Discrimination between equations of state. Journal of Research of the National Bureau of Standards Section A Physics and Chemistry, 1971, 75A, 441.	0.6	110
198	THE EFFECT OF PRESSURE ON THE VELOCITY OF SOUND IN TOLUENE UP TO 2600 BAR. , 1980, , 715-717.		0
199	Ultrasonic Velocity: A Breakthrough for Oil and Gas Characterization. , 1991, , 155-165.		0

#	Article	IF	CITATIONS
200	Diesel-Einspritzhydraulik. , 2016, , 1-6.		0
201	Diesel-Einspritzhydraulik. Springer Reference Technik, 2018, , 277-282.	0.0	0
202	НСІ - К. , 0, , 86-97.		0
203	Kraftstoffeinspritztechnik — Hydraulik. , 2007, , 143-197.		0
204	An Ultrasonic-Capacitive System for Online Characterization of Fuel Oils in Thermal Power Plants. Sensors, 2021, 21, 7979.	3.8	3
205	Predicting and Correlating Speed of Sound in Long-Chain Alkanes at High Pressure. International Journal of Thermophysics, 2022, 43, 1.	2.1	8
206	Thermodynamic Properties of MgAl2O4 Spinel at High Temperatures and High Pressures. Crystals, 2023, 13, 240.	2.2	0
207	Machine learning for shock compression of solids using scarce data. Journal of Applied Physics, 2023, 133, .	2.5	0
208	Acoustic detection potential of single particles in viscous liquids. Physical Review Research, 2023, 5, .	3.6	0

Acoustic detection potential of single particles in viscous liquids. Physical Review Research, 2023, 5, . 208 3.6