William A Wakeham

List of Publications by Year
in descending order

200	10,331	38720 50	40954 93
papers	citations	h-index	g-index

202	202	202	6294
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Viscosity of liquid water in the range â^'8â€‰Â°C to 150â€‰Â°C. Journal of Physical and Chemical Reference Data, 1978, 7, 941-948.	1.9	728
2	The Transport Properties of Carbon Dioxide. Journal of Physical and Chemical Reference Data, 1990, 19, 763-808.	1.9	659
3	The Viscosity of Carbon Dioxide. Journal of Physical and Chemical Reference Data, 1998, 27, 31-44.	1.9	628
4	Standard Reference Data for the Thermal Conductivity of Water. Journal of Physical and Chemical Reference Data, 1995, 24, 1377-1381.	1.9	461
5	Reference Data for the Density and Viscosity of Liquid Aluminum and Liquid Iron. Journal of Physical and Chemical Reference Data, 2006, 35, 285-300.	1.9	368
6	The theory of the Taylor dispersion technique for liquid diffusivity measurements. International Journal of Thermophysics, 1980, 1, 243-284.	1.0	327
7	Thermal Conductivity of Suspensions of Carbon Nanotubes in Water. International Journal of Thermophysics, 2004, 25, 971-985.	1.0	311
8	Reference Data for the Density and Viscosity of Liquid Copper and Liquid Tin. Journal of Physical and Chemical Reference Data, 2010, 39, .	1.9	206
9	Reference Data for the Density and Viscosity of Liquid Cadmium, Cobalt, Gallium, Indium, Mercury, Silicon, Thallium, and Zinc. Journal of Physical and Chemical Reference Data, 2012, 41, .	1.9	194
10	Viscosity of the Noble Gases in the Temperature Range 25â€“700Â°C. Journal of Chemical Physics, 1972, 56, 4119-4124.	1.2	186
11	The Viscosity and Density of n-Dodecane and n-Octadecane at Pressures up to 200ï¿½MPa and Temperatures up to 473 K. International Journal of Thermophysics, 2004, 25, 1339-1352.	1.0	181
12	Standard Reference Data for the Thermal Conductivity of Liquids. Journal of Physical and Chemical Reference Data, 1986, 15, 1073-1086.	1.9	170
13	Historical Evolution of the Transient Hot-Wire Technique. International Journal of Thermophysics, 2010, 31, 1051-1072.	1.0	159
14	The viscosity of five liquid hydrocarbons at pressures up to 250 MPa. International Journal of Thermophysics, 1992, 13, 773-790.	1.0	138
15	Viscosity and Density of Five Hydrocarbon Liquids at Pressures up to 200 MPa and Temperatures up to 473 K. Journal of Chemical & Engineering Data, 2009, 54, 359-366.	1.0	126
16	Density and Viscosity Measurements of 2,2,4-Trimethylpentane (Isooctane) from 198 K to 348 K and up to 100 MPa. Journal of Chemical & Engineering Data, 1996, 41, 1488-1494.	1.0	107
17	The theory of a vibrating-rod viscometer. Flow, Turbulence and Combustion, 1987, 43, 325-346.	0.2	105
18	The theory of a vibrating-rod densimeter. Flow, Turbulence and Combustion, 1986, 43, 127-158.	0.2	96

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19	Validation of an accurate vibrating-wire densimeter: Density and viscosity of liquids over wide ranges of temperature and pressure. International Journal of Thermophysics, 1996, 17, 781-802.	1.0	87
20	Reference values of the viscosity of twelve gases at 25Â°C. Transactions of the Faraday Society, 1971, 67, 2308-2313.	0.9	85
21	Reference Data for the Thermal Conductivity of Saturated Liquid Toluene Over a Wide Range of Temperatures. Journal of Physical and Chemical Reference Data, 2000, 29, 133-139.	1.9	82
22	A transient hot-wire instrument for thermal conductivity measurements in electrically conducting liquids at elevated temperatures. International Journal of Thermophysics, 1982, 3, 225-235.	1.0	76
23	Liquid Density and Critical Properties of Hydrocarbons Estimated from Molecular Structure. Journal of Chemical & Engineering Data, 2002, 47, 559-570.	1.0	73
24	Viscosity of the Binary Gaseous Mixtures Heâ€“Ne and Neâ€“N2 in the Temperature Range 25â€“700Â°C. Journal of Chemical Physics, 1972, 56, 5837-5842.	1.2	71
25	An apparatus to measure the thermal conductivity of liquids. Journal of Physics E: Scientific Instruments, 1976, 9, 1073-1080.	0.7	71
26	Vibrating-wire viscometers for liquids at high pressures. International Journal of Thermophysics, 1992, 13, 593-615.	1.0	71
27	Viscosity of the Binary Gaseous Mixture Heliumâ€Nitrogen. Journal of Chemical Physics, 1972, 56, 4036-4042.	1.2	70
28	The Viscosity of Nitrogen, Oxygen, and Their Binary Mixtures in the Limit of Zero Density. Journal of Physical and Chemical Reference Data, 1985, 14, 209-226.	1.9	68
29	The prediction of the viscosity of dense gas mixtures. International Journal of Thermophysics, 1989, 10, 125-132.	1.0	68
30	Title is missing!. International Journal of Thermophysics, 2002, 23, 615-633.	1.0	67
31	Thermal conductivity of toluene in the temperature range 35â€“90Â°C at pressures up to 600 MPa. International Journal of Thermophysics, 1983, 4, 311-327.	1.0	65
32	Measurements of the viscosity of benzene, toluene, and m-xylene at pressure up to 80 MPa. International Journal of Thermophysics, 1991, 12, 449-457.	1.0	65
33	Effect of pressure on the viscosity of aqueous sodium chloride solutions in the temperature range 20-150.degree.C. Journal of Chemical & Engineering Data, 1978, 23, 328-336.	1.0	64
34	The transport properties of ethane. I. Viscosity. International Journal of Thermophysics, 1994, 15, 1-31.	1.0	63
35	Absolute measurements of the thermal conductivity of liquids at pressures up to 500 MPa. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1981, 85, 340-347.	0.9	62
36	XML-based IUPAC standard for experimental, predicted, and critically evaluated thermodynamic property data storage and capture (ThermoML) (IUPAC Recommendations 2006). Pure and Applied Chemistry, 2006, 78, 541-612.	0.9	62

#	Article	IF	Citations
37	Diffusion through Multiperforate Laminae. Industrial & Engineering Chemistry Fundamentals, 1979, 18, 301-305.	0.7	60
38	Necessary Conditions for Accurate, Transient Hot-Wire Measurements of the Apparent Thermal Conductivity of Nanofluids are Seldom Satisfied. International Journal of Thermophysics, 2016, 37, 1.	1.0	60
39	Benzene: A Further Liquid Thermal Conductivity Standard. Journal of Physical and Chemical Reference Data, 1990, 19, 113-117.	1.9	59
40	The Viscosity and Thermal Conductivity of Normal Hydrogen in the Limit of Zero Density. Journal of Physical and Chemical Reference Data, 1986, 15, 1315-1322.	1.9	55
41	The viscosity of liquid R134a. International Journal of Thermophysics, 1993, 14, 33-44.	1.0	55
42	The viscosity of R32 and R125 at saturation. International Journal of Thermophysics, 1993, 14, 1131-1143.	1.0	55
43	Mutual diffusion coefficients for binary mixtures of normal alkanes. International Journal of Thermophysics, 1982, 3, 307-323.	1.0	54
44	Density and Viscosity Measurements of 1,1,1,2-Tetrafluoroethane (HFC-134a) from 199 K to 298 K and up to 100 MPa. Journal of Chemical & Engineering Data, 1996, 41, 731-735.	1.0	54
45	Electromechanical model for vibrating-wire instruments. Review of Scientific Instruments, 1998, 69, 2392-2399.	0.6	54
46	The viscosity of five gaseous hydrocarbons. Journal of Chemical Physics, 1977, 66, 1132-1134.	1.2	53
47	The Viscosity of Carbon Dioxide, Methane, and Sulfur Hexafluoride in the Limit of Zero Density. Journal of Physical and Chemical Reference Data, 1987, 16, 175-187.	1.9	53
48	Absolute measurements of the thermal conductivity of mixtures of alcohols with water. International Journal of Thermophysics, 1989, 10, 793-803.	1.0	53
49	An essentially exact evaluation of transport cross-sections for a model of the helium-nitrogen interaction. Molecular Physics, 1987, 61, 359-387.	0.8	52
50	The thermal conductivity of n-hexane, n-heptane, and n-decane by the transient hot-wire method. International Journal of Thermophysics, 1987, 8, 663-670.	1.0	52
51	Thermal conductivity of aqueous sodium chloride solutions. Journal of Chemical & Engineering Data, 1994, 39, 186-190.	1.0	52
52	New Measurements of the Apparent Thermal Conductivity of Nanofluids and Investigation of Their Heat Transfer Capabilities. Journal of Chemical & Engineering Data, 2017, 62, 491-507.	1.0	52
53	The Thermal Conductivity of Nitrogen and Carbon Monoxide in the Limit of Zero Density. Journal of Physical and Chemical Reference Data, 1989, 18, 565-581.	1.9	47
54	A Vibrating Edge Supported Plate, Fabricated by the Methods of Micro Electro Mechanical System for the Simultaneous Measurement of Density and Viscosity:â€‰ Results for Methylbenzene and Octane at Temperatures between (323 and 423) K and Pressures in the Range (0.1 to 68) MPa. Journal of Chemical & Engineering Data, 2006, 51, 190-208.	1.0	46

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55	An absolute vibrating-wire viscometer for liquids at high pressures. International Journal of Thermophysics, 1991, 12, 231-244.	1.0	45
56	Validation of a Vibrating-Wire Viscometer:â€‰ Measurements in the Range of 0.5 to 135 mPaÂ·s. Journal of Chemical & Engineering Data, 2005, 50, 201-205.	1.0	45
57	The Apparent Thermal Conductivity of Liquids Containing Solid Particles of Nanometer Dimensions: A Critique. International Journal of Thermophysics, 2015, 36, 1367-1395.	1.0	44
58	The transport coefficients of polyatomic liquids. International Journal of Thermophysics, 1986, 7, 273-284.	1.0	43
59	An Industrial Reference Fluid for Moderately High Viscosity. Journal of Chemical & Engineering Data, 2008, 53, 2003-2011.	1.0	43
60	Potential applications of nanofluids for heat transfer. International Journal of Heat and Mass Transfer, 2019, 138, 597-607.	2.5	43
61	Thermal conductivity of five hydrocarbons along the saturation line. International Journal of Thermophysics, 1983, 4, 193-208.	1.0	42
62	Measurements of the viscosity of R11, R12, R141b, and R152a in the temperature range 270â€“340 K at pressures up to 20 MPa. International Journal of Thermophysics, 1994, 15, 575-589.	1.0	41
63	The transport properties of ethane. II. Thermal conductivity. International Journal of Thermophysics, 1994, 15, 33-66.	1.0	41
64	Thermal diffusivity measurement by the transient hot-wire technique: A reappraisal. International Journal of Thermophysics, 1988, 9, 293-316.	1.0	40
65	Quantum mechanical calculations of effective collision cross-sections for He-N2interaction. Molecular Physics, 1991, 72, 1347-1364.	0.8	40
66	Estimation of normal boiling points of hydrocarbons from descriptors of molecular structure. Fluid Phase Equilibria, 1999, 163, 21-42.	1.4	40
67	Viscosity Measurements of the Ionic Liquid Trihexyl(tetradecyl)phosphonium Dicyanamide [P_{6,6,6,14}][dca] Using the Vibrating Wire Technique. Journal of Chemical & Engineering Data, 2012, 57, 1015-1025.	1.0	39
68	The Viscosity of Ammonia. Journal of Physical and Chemical Reference Data, 1995, 24, 1649-1667.	1.9	38
69	Metrology of Viscosity: Have We Learned Enough?. Journal of Chemical & Engineering Data, 2009, 54, 171-178.	1.0	38
70	The Thermal Conductivity of Argon, Nitrogen and Carbon Monoxide in the Temperature Range 300 â€” 430 K at Pressures up to 10 MPa. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1983, 87, 657-663.	0.9	37
71	The Thermal Conductivity of n-Hexane and n-Octane at Pressures up to 0.64 GPa in the Temperature Range 34-90Â°C. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1984, 88, 32-36.	0.9	37
72	A vibrating-wire densimeter for measurements in fluids at high pressures. International Journal of Thermophysics, 1991, 12, 357-370.	1.0	37

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73	Prediction of the viscosity of dense fluid mixtures. Molecular Physics, 2003, 101, 339-352.	0.8	37
74	New Measurements of the Viscosity of Diisodecyl Phthalate Using a Vibrating Wire Technique. Journal of Chemical & Engineering Data, 2005, 50, 1875-1878.	1.0	37
75	Thermal Conductivity of Liquid Tin and Indium. International Journal of Thermophysics, 2001, 22, 395-403.	1.0	36
76	Viscosity of the Binary Gaseous Mixture Neonâ€Krypton. Journal of Chemical Physics, 1972, 56, 4086-4091.	1.2	35
77	A computer-controlled instrument for the measurement of the thermal conductivity of liquids. International Journal of Thermophysics, 1987, 8, 511-519.	1.0	35
78	The Transient Hot-Wire Technique: A Numerical Approach. International Journal of Thermophysics, 1998, 19, 379-389.	1.0	35
79	Viscosity of Di-isodecylphthalate: A Potential Standard of Moderate Viscosity. International Journal of Thermophysics, 2004, 25, 1311-1322.	1.0	35
80	NUMERICAL SOLUTION OF THE ISOTHERMAL, ISOBARIC PHASE EQUILIBRIUM PROBLEM. Reviews in Chemical Engineering, 2004, 20, 1-56.	2.3	34
81	Absolute measurements of the thermal conductivity of mixtures of alkene-glycols with water. International Journal of Thermophysics, 1989, 10, 1127-1140.	1.0	33
82	Thermal conductivity of R134a and R141b within the temperature range 240?307 K at the saturation vapor pressure. International Journal of Thermophysics, 1993, 14, 173-181.	1.0	33
83	Thermal conductivity of R32 and R125 in the liquid phase at the saturation vapor pressure. International Journal of Thermophysics, 1993, 14, 1215-1220.	1.0	33
84	Second and third interaction virial coefficients of the (methane+propane) system determined from the speed of sound. International Journal of Thermophysics, 1996, 17, 35-42.	1.0	33
85	Viscosity Measurements of Liquid Toluene at Low Temperatures Using a Dual Vibrating-Wire Technique. International Journal of Thermophysics, 2004, 25, 1-11.	1.0	33
86	Viscosity measurements of three ionic liquids using the vibrating wire technique. Fluid Phase Equilibria, 2013, 353, 76-86.	1.4	33
87	The Thermal Conductivity of nâ€Nonane and nâ€Undecane at Pressures up to 500 MPa in the Temperature Range 35â€“90Â°C. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1982, 86, 541-545.	0.9	32
88	Measurements of the thermal conductivity of R11 and R12 in the temperature range 250?340 K at pressures up to 30 MPa. International Journal of Thermophysics, 1992, 13, 735-751.	1.0	32
89	A vibrating-wire densimeter for liquids at high pressures: The density of 2,2,4-trimethylpentane from 298.15 to 348.15 K and up to 100 MPa. International Journal of Thermophysics, 1994, 15, 229-243.	1.0	32
90	A Vibrating-Wire Viscometer for Dilute and Dense Gases. International Journal of Thermophysics, 1998, 19, 391-401.	1.0	32

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91	Thermal conductivity of argon in the temperature range 107 to 423 K. International Journal of Thermophysics, 1986, 7, 259-272.	1.0	30
92	The viscosity of liquid carbon dioxide. International Journal of Thermophysics, 1994, 15, 767-777.	1.0	30
93	A powerful algorithm for liquidâ€“liquidâ€“liquid equilibria predictions and calculations. Chemical Engineering Science, 2000, 55, 2121-2129.	1.9	30
94	Viscosity of Carbon Dioxide in the Temperature Range 25â€“700Â°C. Journal of Chemical Physics, 1972, 56, 4114-4118.	1.2	29
95	The Viscosity of Carbonâ€Monoxide and its Mixtures with Other Gases in the Temperature Range 25 â€“ 200Â°C. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1982, 86, 753-760.	0.9	29
96	Absolute Measurements of the Thermal Conductivity of Some Aqueous Chloride Salt Solutions. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1989, 93, 887-892.	0.9	29
97	Simultaneous Measurement of the Density and Viscosity of Compressed Liquid Toluene. International Journal of Thermophysics, 2003, 24, 323-336.	1.0	29
98	Viscosity of multicomponent mixtures of four complex gases. Journal of Chemical Physics, 1976, 65, 5186-5188.	1.2	28
99	Preliminary data on the pressure effect on the viscosity of sodium chloride-water solutions in the range 10-40.degree.C. Journal of Chemical & Engineering Data, 1977, 22, 207-214.	1.0	28
100	Transient hot-wire measurements of the thermal conductivity of gases at elevated temperatures. International Journal of Thermophysics, 1986, 7, 245-258.	1.0	28
101	The Thermal Conductivity of Methane and Tetrafluoromethane in the Limit of Zero Density. Journal of Physical and Chemical Reference Data, 1990, 19, 1137-1147.	1.9	28
102	ThermoMLâ€An XML-Based Approach for Storage and Exchange of Experimental and Critically Evaluated Thermophysical and Thermochemical Property Data. 3. Critically Evaluated Data, Predicted Data, and Equation Representationâ€¡. Journal of Chemical & Engineering Data, 2004, 49, 381-393.	1.0	28
103	Viscosity Measurements on Ionic Liquids: A Cautionary Tale. International Journal of Thermophysics, 2014, 35, 1615-1635.	1.0	28
104	Calculation of the Influence of Density on the Thermal Conductivity of Gaseous Mixtures. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1980, 84, 762-769.	0.9	27
105	The viscosity of three polar gases. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1979, 83, 573-576.	0.9	26
106	Thermal conductivity of normal pentane in the temperature range 306?360 K at pressures up to 0.5 GPa. International Journal of Thermophysics, 1987, 8, 305-315.	1.0	26
107	Reference Correlations for the Thermal Conductivity of 13 Inorganic Molten Salts. Journal of Physical and Chemical Reference Data, 2018, 47, .	1.9	26
108	Absolute Measurement of the Thermal Conductivity of Electrically Conducting Liquids. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1988, 92, 627-631.	0.9	25

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109	Thermal conductivity of liquids: Prediction based on a group-contribution scheme. International Journal of Thermophysics, 1989, 10, 779-791.	1.0	25
110	The thermal conductivity of toluene and water. International Journal of Thermophysics, 1993, 14, 1119-1130.	1.0	25
111	Quantum mechanical calculation of generalized collision cross-sections for the He-N2interaction. Part II. Thermomagnetic effect. Molecular Physics, 1995, 84, 553-576.	0.8	25
112	New Global Communication Process in Thermodynamics:â€‰ Impact on Quality of Published Experimental Data. Journal of Chemical Information and Modeling, 2006, 46, 2487-2493.	2.5	25
113	Thermal conductivity of benzene and cyclohexane in the temperature range 36?90ï¿½C at pressures up to 0.33 GPa. International Journal of Thermophysics, 1984, 5, 351-365.	1.0	24
114	Phase Equilibrium Calculations for Chemically Reacting Systems. Industrial & Engineering Chemistry Research, 1997, 36, 5474-5482.	1.8	24
115	Mutual Diffusion Coefficients of Aqueous KCl at High Pressures Measured by the Taylor Dispersion Method. Journal of Chemical & Engineering Data, 2011, 56, 4840-4848.	1.0	23
116	Higher-order approximation to the thermal conductivity of monatomic gas mixtures. International Journal of Thermophysics, 1980, 1, 7-32.	1.0	22
117	Thermal conductivity of n-tridecane at pressures up to 500 MPa in the temperature range 35?75ï¿½C. International Journal of Thermophysics, 1982, 3, 217-224.	1.0	22
118	Compression work using the transient hot-wire method. International Journal of Thermophysics, 1992, 13, 223-235.	1.0	22
119	Thermal conductivity of liquid mixtures of benzene and 2,2,4-trimethylpentane at pressures up to 350 MPa. International Journal of Thermophysics, 1994, 15, 117-139.	1.0	22
120	Diisodecylphthalate (DIDP)â€”a potential standard of moderate viscosity: Surface tension measurements and water content effect on viscosity. Fluid Phase Equilibria, 2006, 245, 1-5.	1.4	22
121	A Vibrating Plate Fabricated by the Methods of Microelectromechanical Systems (MEMS) for the Simultaneous Measurement of Density and Viscosity: Results for Argon at Temperatures Between 323 and 423K at Pressures up to 68ÂMPa. International Journal of Thermophysics, 2006, 27, 1650-1676.	1.0	22
122	Thermophysical Property Measurements: The Journey from Accuracy to Fitness for Purpose. International Journal of Thermophysics, 2007, 28, 372-416.	1.0	22
123	Thermal Conductivity of Molten Lead-Free Solders. International Journal of Thermophysics, 2006, 27, 92-102.	1.0	21
124	In Pursuit of a High-Temperature, High-Pressure, High-Viscosity Standard: The Case of Tris(2-ethylhexyl) Trimellitate. Journal of Chemical & Engineering Data, 2017, 62, 2884-2895.	1.0	21
125	Diffusion coefficients for protein molecules in blood serum. Atherosclerosis, 1976, 25, 225-235.	0.4	20
126	Thermal Conductivity of Mixtures of Hydrogen and Helium at 27.5Â°C and Pressures up to 14 MPa. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1980, 84, 18-23.	0.9	20

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127	The viscosity of liquid water at pressures up to 32 MPa. International Journal of Thermophysics, 1993, 14, 795-803.	1.0	20
128	Extension of ThermoML: The IUPAC standard for thermodynamic data communications (IUPAC) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	0.9	19
129	The Thermal Conductivity of Hydrogen, Deuterium and Their Mixtures Near Room Temperature within the Pressure Range 2 ï£¿ 36 MPa. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1980, 84, 9-18.	0.9	18
130	Thermal conductivity and thermal diffusivity of xylene isomers in the temperature range 308?360 K at pressures up to 0.38 GPa. International Journal of Thermophysics, 1988, 9, 21-35.	1.0	18
131	Thermal conductivity of multicomponent polyatomic dilute gas mixtures. International Journal of Thermophysics, 1997, 18, 925-938.	1.0	18
132	The Viscosity of Mixtures of Hydrogen with Three Noble Gases. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1981, 85, 385-388.	0.9	17
133	Transport cross-sections for polyatomic gases. International Reviews in Physical Chemistry, 1992, 11, 161-194.	0.9	17
134	Reference Correlations for the Thermal Conductivity of Liquid Bismuth, Cobalt, Germanium, and Silicon. Journal of Physical and Chemical Reference Data, 2017, 46, .	1.9	17
135	A vibrating-rod densimeter. International Journal of Thermophysics, 1989, 10, 871-883.	1.0	15
136	The viscosity and thermal conductivity of ethane in the limit of zero density. International Journal of Thermophysics, 1991, 12, 999-1012.	1.0	15
137	Viscosity of R134a, R32, And R125 at Saturation. International Journal of Thermophysics, 1999, 20, 365-373.	1.0	15
138	Tris(2-ethylhexyl) trimellitate (TOTM) as a potential industrial reference fluid for viscosity at high temperatures and high pressures: New viscosity, density and surface tension measurements. Fluid Phase Equilibria, 2016, 418, 192-197.	1.4	15
139	Diffusion coefficient measurements by the chromatographic method. Faraday Symposia of the Chemical Society, 1980, 15, 145.	0.5	14
140	The thermal conductivity of binary mixtures of helium and methane at 27.5 Â°C and pressures up to 13 MPa. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1981, 85, 215-220.	0.9	14
141	A transient hot-wire cell for thermal conductivity measurements over a wide temperature range. Journal of Physics E: Scientific Instruments, 1982, 15, 839-842.	0.7	14
142	The Viscosity of Normal Deuterium in the Limit of Zero Density. Journal of Physical and Chemical Reference Data, 1987, 16, 189-192.	1.9	14
143	The thermal conductivity of liquid mixtures at elevated pressures. International Journal of Thermophysics, 1989, 10, 1041-1051.	1.0	14
144	A Novel Instrument for the Measurement of the Thermal Conductivity of Molten Metals. Part I: Instrumentâ€™s Description. International Journal of Thermophysics, 2006, 27, 353-375.	1.0	14

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145	Transversely Oscillating MEMS Viscometer: The â€œSpiderâ€• International Journal of Thermophysics, 2006, 27, 1677-1695.	1.0	14
146	The Thermal Conductivity of Mixtures of Hydrogen with the Monatomic Gases. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1980, 84, 840-848.	0.9	13
147	Theoretically based data assessment for the correlation of the thermal conductivity of dilute gases. International Journal of Thermophysics, 1989, 10, 805-818.	1.0	13
148	An equation of state for the gas phase of methanol. Pure and Applied Chemistry, 1989, 61, 1379-1386.	0.9	13
149	A Rigorous Mathematical Proof of the Area Method for Phase Stability. Industrial & Engineering Chemistry Research, 1998, 37, 1483-1489.	1.8	13
150	Prediction of the Viscosity of Liquid Mixtures: An Improved Approach1. International Journal of Thermophysics, 2000, 21, 357-365.	1.0	13
151	Reference Correlation for the Density and Viscosity of Eutectic Liquid Alloys Al+Si, Pb+Bi, and Pb+Sn. Journal of Physical and Chemical Reference Data, 2012, 41, .	1.9	13
152	Automatic operation of a high-precision Wheatstone bridge. Journal of Physics E: Scientific Instruments, 1974, 7, 948-951.	0.7	12
153	The thermal conductivity of the mixtures of liquid hydrocarbons at pressures up to 400 MPa. International Journal of Thermophysics, 1990, 11, 987-1000.	1.0	12
154	Transport Property Measurements on the IUPAC Sample of 1,1,1,2-Tetrafluoroethane (R134a). International Journal of Thermophysics, 2000, 21, 1-22.	1.0	12
155	Consequences of property errors on the design of distillation columns. Fluid Phase Equilibria, 2001, 185, 1-12.	1.4	12
156	The thermal conductivity of ethylene and ethane. International Journal of Thermophysics, 1988, 9, 481-500.	1.0	11
157	Measurements of the Thermal Conductivity of Molten Lead Using a New Transient Hot-Wire Sensor. International Journal of Thermophysics, 2007, 28, 496-505.	1.0	11
158	ThermoMLâ€”An XML-Based Approach for Storage and Exchange of Experimental and Critically Evaluated Thermophysical and Thermochemical Property Data. 4. Biomaterials. Journal of Chemical & Engineering Data, 2010, 55, 1564-1572.	1.0	11
159	Transport properties of polyatomic gases. International Journal of Thermophysics, 1986, 7, 1-15.	1.0	10
160	The Thermal Conductivity of Mixtures of Hydrogen with Nitrogen. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1982, 86, 187-191.	0.9	9
161	Mutual diffusion coefficients for two n-octane isomers in n-heptane. International Journal of Thermophysics, 1989, 10, 995-1003.	1.0	9
162	Toward standard reference values for the thermal conductivity of high-temperature melts. International Journal of Thermophysics, 1997, 18, 439-446.	1.0	9

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163	Prediction of the Viscosity of Liquid Mixtures. International Journal of Thermophysics, 2001, 22, 1727-1737.	1.0	9
164	A Novel Instrument for the Measurement of the Thermal Conductivity of Molten Metals. Part II: Measurements. International Journal of Thermophysics, 2006, 27, 681-698.	1.0	9
165	Repeatability and Refinement of a Transient Hot-Wire Instrument for Measuring the Thermal Conductivity of High-Temperature Melts. International Journal of Thermophysics, 2006, 27, 1626-1637.	1.0	9
166	Reference Correlations for the Viscosity of 13 Inorganic Molten Salts. Journal of Physical and Chemical Reference Data, 2019, 48, .	1.9	9
167	Thermal Conductivity of Ionic Liquids and IoNanofluids. Can Molecular Theory Help?. Fluids, 2021, 6, 116.	0.8	9
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