

J P Martin Trusler

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187
papers

6,471
citations

38
h-index

74
g-index

204
ext. papers

7,716
ext. citations

3.6
avg, IF

5.99
L-index

#	Paper	IF	Citations
187	Carbon capture and storage (CCS): the way forward. <i>Energy and Environmental Science</i> , 2018 , 11, 1062-1136	13.54	1368
186	Measurement of the universal gas-constant R using a spherical acoustic resonator. <i>Journal of Research of the National Bureau of Standards (United States)</i> , 1988 , 93, 85		201
185	Improvement of Quality in Publication of Experimental Thermophysical Property Data: Challenges, Assessment Tools, Global Implementation, and Online Support. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2699-2716	2.8	187
184	Interfacial Tension Measurements of the (H ₂ O + CO ₂) System at Elevated Pressures and Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4168-4175	2.8	165
183	The Viscosity and Density of n-Dodecane and n-Octadecane at Pressures up to 200 MPa and Temperatures up to 473 K. <i>International Journal of Thermophysics</i> , 2004 , 25, 1339-1352	2.1	154
182	Measurement and modeling of the phase behavior of the (carbon dioxide + water) mixture at temperatures from 298.15 K to 448.15 K. <i>Journal of Supercritical Fluids</i> , 2013 , 73, 87-96	4.2	118
181	Interfacial Tension of (Brines + CO ₂): (0.864 NaCl + 0.136 KCl) at Temperatures between (298 and 448) K, Pressures between (2 and 50) MPa, and Total Molalities of (1 to 5) mol/kg. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1078-1088	2.8	118
180	Diffusion Coefficients of CO ₂ and N ₂ in Water at Temperatures between 298.15 K and 423.15 K at Pressures up to 45 MPa. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 519-525	2.8	113
179	Viscosity and Density of Five Hydrocarbon Liquids at Pressures up to 200 MPa and Temperatures up to 473 K. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 359-366	2.8	108
178	Interfacial tension measurements and modelling of (carbon dioxide+n-alkane) and (carbon dioxide+water) binary mixtures at elevated pressures and temperatures. <i>Journal of Supercritical Fluids</i> , 2010 , 55, 743-754	4.2	102
177	Measurement of the universal gas constant R using a spherical acoustic resonator. <i>Physical Review Letters</i> , 1988 , 60, 249-252	7.4	96
176	The pH of CO ₂ -saturated water at temperatures between 308 K and 423 K at pressures up to 15 MPa. <i>Journal of Supercritical Fluids</i> , 2013 , 82, 129-137	4.2	92
175	Solubility of carbon dioxide in aqueous solution of monoethanolamine or 2-amino-2-methyl-1-propanol: Experimental measurements and modelling. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 6, 37-47	4.2	78
174	Speed of Sound of n-Hexane and n-Hexadecane at Temperatures Between 298 and 373 K and Pressures up to 100 MPa. <i>International Journal of Thermophysics</i> , 2001 , 22, 427-443	2.1	71
173	Measurement of the Viscosity and Density of Two Reference Fluids, with Nominal Viscosities at T = 298 K and $\rho = 0.1$ MPa of (16 and 29) mPa·s, at Temperatures between (298 and 393) K and Pressures below 55 MPa. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1377-1388	2.8	69
172	The speed of sound and derived thermodynamic properties of methane at temperatures between 275 K and 375 K and pressures up to 10 MPa. <i>Journal of Chemical Thermodynamics</i> , 1992 , 24, 973-991	2.9	69
171	High Pressure Electrochemical Reduction of CO to Formic Acid/Formate: A Comparison between Bipolar Membranes and Cation Exchange Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1834-1847	3.9	66

170	Interfacial Tension of (Brines + CO ₂): CaCl ₂ (aq), MgCl ₂ (aq), and Na ₂ SO ₄ (aq) at Temperatures between (343 and 423) K, Pressures between (2 and 50) MPa, and Molalities of (0.5 to 5) mol/kg. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1369-1375	2.8	64
169	Kinetics of calcite dissolution in CO ₂ -saturated water at temperatures between (323 and 373) K and pressures up to 13.8 MPa. <i>Chemical Geology</i> , 2015 , 403, 74-85	4.2	62
168	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. <i>Journal of Chemical Physics</i> , 2012 , 136, 094513-9	3.9	62
167	Interfacial Tension Measurements of the (H ₂ O + n-Decane + CO ₂) Ternary System at Elevated Pressures and Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4900-4908	2.8	62
166	Thermophysical Properties of Fluids 1996 ,		62
165	Densities of Aqueous MgCl ₂ (aq), CaCl ₂ (aq), KI(aq), NaCl(aq), KCl(aq), AlCl ₃ (aq), and (0.964 NaCl + 0.136 KCl)(aq) at Temperatures Between (283 and 472) K, Pressures up to 68.5 MPa, and Molalities up to 6 mol/kg. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1288-1304	2.8	61
164	Solubility of CO ₂ in Aqueous Solutions of CaCl ₂ or MgCl ₂ and in a Synthetic Formation Brine at Temperatures up to 423 K and Pressures up to 40 MPa. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 2116-2124	2.8	58
163	Molecular dynamics simulations of CO ₂ and brine interfacial tension at high temperatures and pressures. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 5647-52	3.4	57
162	Second acoustic virial coefficients of nitrogen between 80 and 373 K. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 184, 415-436	3.3	56
161	The speed of sound in gaseous argon at temperatures between 110 K and 450 K and at pressures up to 19 MPa. <i>Journal of Chemical Thermodynamics</i> , 1995 , 27, 1075-1089	2.9	52
160	Experimental and modeling study of the phase behavior of synthetic crude oil + CO ₂ . <i>Fluid Phase Equilibria</i> , 2014 , 365, 20-40	2.5	49
159	The Temperature-Jump Effect and the Theory of the Thermal Boundary Layer for a Spherical Resonator. Speeds of Sound in Argon at 273.16K. <i>Metrologia</i> , 1986 , 22, 93-102	2.1	48
158	Viscosity and Density of Aqueous Solutions of Carbon Dioxide at Temperatures from (274 to 449) K and at Pressures up to 100 MPa. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 171-180	2.8	47
157	Thermophysical properties of alkanes from speeds of sound determined using a spherical resonator 2. n-Butane. <i>Journal of Chemical Thermodynamics</i> , 1988 , 20, 243-256	2.9	47
156	The speed of sound and derived thermodynamic properties of ethane at temperatures between 220 K and 450 K and pressures up to 10.5 MPa. <i>Journal of Chemical Thermodynamics</i> , 1997 , 29, 991-1015	2.9	45
155	Thermophysical properties of alkanes from speeds of sound determined using a spherical resonator 3. n-Pentane. <i>Journal of Chemical Thermodynamics</i> , 1989 , 21, 867-877	2.9	43
154	Thermophysical properties of alkanes from speeds of sound determined using a spherical resonator I. Apparatus, acoustic model, and results for dimethylpropane. <i>Journal of Chemical Thermodynamics</i> , 1987 , 19, 721-739	2.9	43
153	Experimental and modeling study of the phase behavior of (methane + CO ₂ + water) mixtures. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14461-78	3.4	41

152	An Industrial Reference Fluid for Moderately High Viscosity. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 2003-2011	2.8	41
151	Viscosity and Density of Carbon Dioxide + 2,6,10,15,19,23-Hexamethyltetracosane (Squalane) \square <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2436-2443	2.8	40
150	Atomistic Molecular Dynamics Simulations of Carbon Dioxide Diffusivity in n-Hexane, n-Decane, n-Hexadecane, Cyclohexane, and Squalane. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12890-12900	3.4	39
149	Phase behavior of (CO ₂ +H ₂) and (CO ₂ +N ₂) at temperatures between (218.15 and 303.15)K at pressures up to 15MPa. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 36, 78-92	4.2	38
148	New Experimental Data and Reference Models for the Viscosity and Density of Squalane. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 137-150	2.8	38
147	Interfacial tensions of systems comprising water, carbon dioxide and diluent gases at high pressures: Experimental measurements and modelling with SAFT-VR Mie and square-gradient theory. <i>Fluid Phase Equilibria</i> , 2016 , 407, 159-176	2.5	37
146	Vapor pressure and density of thermotropic liquid crystals: MBBA, 5CB, and novel fluorinated mesogens. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 3918-26	3.4	37
145	Primary acoustic thermometry between T= 90 K and T= 300 K. <i>Journal of Chemical Thermodynamics</i> , 2000 , 32, 1229-1255	2.9	37
144	Accurate Acoustic Thermometry I: The Triple Point of Gallium. <i>Metrologia</i> , 1988 , 25, 165-187	2.1	37
143	Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2392-2399	2.8	36
142	Solubility of carbon dioxide in aqueous blends of 2-amino-2-methyl-1-propanol and piperazine. <i>Chemical Engineering Science</i> , 2013 , 101, 851-864	4.4	36
141	Physical apparatus parameters and model for vibrating tube densimeters at pressures to 140 MPa and temperatures to 473 K. <i>Review of Scientific Instruments</i> , 2014 , 85, 095111	1.7	36
140	Phase behaviour of mixed-gas hydrate systems containing carbon dioxide. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 605-611	2.9	36
139	Speed of sound in carbon dioxide at temperatures between (220 and 450) K and pressures up to 14 MPa. <i>Journal of Chemical Thermodynamics</i> , 1998 , 30, 1589-1601	2.9	36
138	Thermodynamic properties of gaseous argon at temperatures between 110 and 450 K and densities up to 6.8 mol \square dm ³ determined from the speed of sound. <i>International Journal of Thermophysics</i> , 1996 , 17, 1325-1347	2.1	36
137	Saturated phase densities of (CO ₂ + H ₂ O) at temperatures from (293 to 450) K and pressures up to 64 MPa. <i>Journal of Chemical Thermodynamics</i> , 2016 , 93, 347-359	2.9	36
136	High-Pressure Electrochemical Reduction of CO ₂ to Formic Acid/Formate: Effect of pH on the Downstream Separation Process and Economics. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22718-22740	3.9	36
135	Extended hard-sphere model for the viscosity of dense fluids. <i>Fluid Phase Equilibria</i> , 2014 , 363, 239-247	2.5	35

134	Application of a renormalization-group treatment to the statistical associating fluid theory for potentials of variable range (SAFT-VR). <i>Journal of Chemical Physics</i> , 2011 , 134, 154102	3.9	35
133	Prediction of the viscosity of dense fluid mixtures. <i>Molecular Physics</i> , 2003 , 101, 339-352	1.7	34
132	Thermodynamics of carbon dioxide-hydrocarbon systems. <i>Applied Energy</i> , 2018 , 220, 629-642	10.7	33
131	Phase equilibria of (CO ₂ + H ₂ O + NaCl) and (CO ₂ + H ₂ O + KCl): Measurements and modeling. <i>Journal of Supercritical Fluids</i> , 2013 , 78, 78-88	4.2	33
130	Speeds of sound in CF ₄ between 175 and 300 K measured with a spherical resonator. <i>Journal of Chemical Physics</i> , 1989 , 90, 1106-1115	3.9	33
129	A kinetic theory description of the viscosity of dense fluids consisting of chain molecules. <i>Journal of Chemical Physics</i> , 2008 , 128, 204901	3.9	32
128	Measurement of the (pressure, density, temperature) relation of two (methane+nitrogen) gas mixtures at temperatures between 240 and 400K and pressures up to 20MPa using an accurate single-sinker densimeter. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 916-922	2.9	32
127	The speed of sound in (0.8CH ₄ + 0.2C ₂ H ₆)(g) at temperatures between 200 K and 375 K and amount-of-substance densities up to 5 mol·dm ⁻³ . <i>Journal of Chemical Thermodynamics</i> , 1994 , 26, 751-763	2.9	32
126	Interfacial tensions of the (CO ₂ + N ₂ + H ₂ O) system at temperatures of (298 to 448) K and pressures up to 40 MPa. <i>Journal of Chemical Thermodynamics</i> , 2016 , 93, 392-403	2.9	31
125	Viscosities and Densities of Binary Mixtures of Hexadecane with Dissolved Methane or Carbon Dioxide at Temperatures from (298 to 473) K and at Pressures up to 120 MPa. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 422-439	2.8	30
124	Composition Analysis and Viscosity Prediction of Complex Fuel Mixtures Using a Molecular-Based Approach. <i>Energy & Fuels</i> , 2012 , 26, 2220-2230	4.1	30
123	The effect of pH, dilution, and temperature on the viscosity of ocular lubricants--shift in rheological parameters and potential clinical significance. <i>Eye</i> , 2012 , 26, 1579-84	4.4	30
122	Densities and bubble points of binary mixtures of carbon dioxide and n-heptane and ternary mixtures of n-butane, n-heptane and n-hexadecane. <i>Fluid Phase Equilibria</i> , 2001 , 185, 349-358	2.5	30
121	Experimental and molecular modeling study of the three-phase behavior of (n-decane + carbon dioxide + water) at reservoir conditions. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14591-609	3.4	29
120	Thermodynamic properties of mixtures of N-methyl-2-pyrrolidinone and methanol at temperatures between 298.15K and 343.15K and pressures up to 60MPa. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 35-45	2.9	29
119	Equation of State for Solid Phase I of Carbon Dioxide Valid for Temperatures up to 800 K and Pressures up to 12 GPa. <i>Journal of Physical and Chemical Reference Data</i> , 2011 , 40, 043105	4.3	28
118	Thermodynamic properties and equation of state of liquid di-isodecyl phthalate at temperature between (273 and 423) K and at pressures up to 140 MPa. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 631-639	2.9	28
117	Second and third interaction virial coefficients of the (methane+propane) system determined from the speed of sound. <i>International Journal of Thermophysics</i> , 1996 , 17, 35-42	2.1	27

116	Second acoustic virial coefficients of argon between 100 and 304 K. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989 , 156, 899-908	3.3	26
115	Viscosity of liquid mixtures: the Vesovic-Wakeham method for chain molecules. <i>Journal of Chemical Physics</i> , 2012 , 136, 074514	3.9	25
114	Speeds of sound in $\{(1-x)\text{CH}_4+x\text{N}_2\}$ with $x=(0.10001, 0.19999, \text{ and } 0.5422)$ at temperatures between 170K and 400K and pressures up to 30MPa. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 929-937	2.9	25
113	Extended corresponding states model for fluids and fluid mixtures. <i>Fluid Phase Equilibria</i> , 2004 , 216, 59-84	2.5	25
112	Determination of thermodynamic properties from the speed of sound. <i>International Journal of Thermophysics</i> , 1995 , 16, 663-673	2.1	25
111	The speed of sound in gaseous propane at temperatures between 225 K and 375 K and at pressures up to 0.8 MPa. <i>Journal of Chemical Thermodynamics</i> , 1996 , 28, 329-335	2.9	24
110	Microwave Measurements of the Thermal Expansion of a Spherical Cavity. <i>Metrologia</i> , 1988 , 25, 211-219	2.1	23
109	Guidelines for reporting of phase equilibrium measurements (IUPAC Recommendations 2012). <i>Pure and Applied Chemistry</i> , 2012 , 84, 1785-1813	2.1	22
108	Viscosity of Liquid Di-isodecyl Phthalate at Temperatures Between (274 and 373) K and at Pressures up to 140 MPa. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2236-2241	2.8	21
107	Application of the statistical associating fluid theory for potentials of variable range (SAFT-VR) coupled with renormalisation-group (RG) theory to model the phase equilibria and second-derivative properties of pure fluids. <i>Fluid Phase Equilibria</i> , 2013 , 337, 274-287	2.5	20
106	Equation of state for gaseous propane determined from the speed of sound. <i>International Journal of Thermophysics</i> , 1997 , 18, 635-654	2.1	20
105	Experimental and Modeling Study of the Phase Behavior of (Heptane + Carbon Dioxide + Water) Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 3670-3681	2.8	19
104	Model intermolecular potentials and virial coefficients determined from the speed of sound. <i>Molecular Physics</i> , 1997 , 90, 695-704	1.7	19
103	Heat capacities and densities of the binary mixtures containing ethanol, cyclohexane or 1-hexene at high pressures. <i>Journal of Chemical Thermodynamics</i> , 2013 , 57, 550-557	2.9	18
102	Influence of Lactic Acid on the Formation of Aqueous Two-Phase Systems Containing Poly(ethylene glycol) and Phosphates. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1309-1315	2.8	18
101	Diffusion Coefficients of Carbon Dioxide in Brines Measured Using ^{13}C Pulsed-Field Gradient Nuclear Magnetic Resonance. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 181-184	2.8	17
100	Mutual Diffusion Coefficients of Aqueous KCl at High Pressures Measured by the Taylor Dispersion Method. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4840-4848	2.8	17
99	The speed of sound in two methane-rich gas mixtures at temperatures between 250 K and 350 K and at pressures up to 20 MPa. <i>Journal of Chemical Thermodynamics</i> , 1998 , 30, 1121-1129	2.9	17

98	Phase behaviour and density of (methane+n-butane). <i>Fluid Phase Equilibria</i> , 1999 , 163, 139-156	2.5	17
97	On the analysis of acoustic resonance measurement. <i>Journal of the Acoustical Society of America</i> , 1989 , 85, 1780-1782	2.2	17
96	Extended corresponding states model for fluids and fluid mixtures. <i>Fluid Phase Equilibria</i> , 2003 , 204, 15-40	2.5	16
95	Extended corresponding states equation of state for natural gas systems. <i>Fluid Phase Equilibria</i> , 2001 , 183-184, 21-29	2.5	16
94	Acoustic and Volumetric Virial Coefficients of Nitrogen. <i>International Journal of Thermophysics</i> , 2000 , 21, 1033-1044	2.1	16
93	Second and third acoustic virial coefficients of methane at temperatures between 125 K and 375 K. <i>Journal of Chemical Thermodynamics</i> , 1995 , 27, 771-778	2.9	16
92	Rheology of Diluted Heavy Crude Oil Saturated with Carbon Dioxide. <i>Energy & Fuels</i> , 2015 , 29, 2785-2789	2.7	15
91	Diffusion Coefficients of Carbon Dioxide in Eight Hydrocarbon Liquids at Temperatures between (298.15 and 423.15) K at Pressures up to 69 MPa. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3922-3932	2.8	15
90	Kinetics of carbonate mineral dissolution in CO ₂ -acidified brines at storage reservoir conditions. <i>Faraday Discussions</i> , 2016 , 192, 545-560	3.6	15
89	Interfacial tensions of (H ₂ O-H ₂) and (H ₂ O-CO ₂ -H ₂) systems at temperatures of (298-48) K and pressures up to 45 MPa. <i>Fluid Phase Equilibria</i> , 2018 , 475, 37-44	2.5	15
88	Heat transfer in pure critical fluids surrounded by finitely conducting boundaries in microgravity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 242, 119-140	3.3	15
87	The pH of CO ₂ -saturated aqueous NaCl and NaHCO ₃ solutions at temperatures between 308 K and 373 K at pressures up to 15 MPa. <i>Fluid Phase Equilibria</i> , 2018 , 458, 253-263	2.5	15
86	Densities of SrCl ₂ (aq), Na ₂ SO ₄ (aq), NaHCO ₃ (aq), and Two Synthetic Reservoir Brines at Temperatures between (298 and 473) K, Pressures up to 68.5 MPa, and Molalities up to 3 mol/kg. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 402-412	2.8	14
85	Phase equilibria of (Methylbenzene + Carbon dioxide + Methane) at elevated pressure: Experiment and modelling. <i>Journal of Supercritical Fluids</i> , 2019 , 145, 1-9	4.2	14
84	Determination of the thermodynamic properties of water from the speed of sound. <i>Journal of Chemical Thermodynamics</i> , 2017 , 109, 61-70	2.9	13
83	A robust vibrating wire viscometer for reservoir fluids: results for toluene and n-decane. <i>Journal of Petroleum Science and Engineering</i> , 2004 , 44, 333-340	4.4	13
82	Virial equation of state for natural gas systems. <i>Fluid Phase Equilibria</i> , 2003 , 204, 169-182	2.5	13
81	Perspective on the hydrogen economy as a pathway to reach net-zero CO ₂ emissions in Europe. <i>Energy and Environmental Science</i> ,	35.4	13

80	Density, sound speed and derived thermophysical properties of n-nonane at temperatures between (283.15 and 473.15) K and at pressures up to 390 MPa. <i>Journal of Chemical Thermodynamics</i> , 2018 , 124, 107-122	2.9	13
79	Wettability of calcite under carbon storage conditions. <i>International Journal of Greenhouse Gas Control</i> , 2019 , 84, 180-189	4.2	12
78	Viscosities of Liquid Cyclohexane and Decane at Temperatures between (303 and 598) K and Pressures up to 4 MPa Measured in a Dual-Capillary Viscometer. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2363-2370	2.8	12
77	Residual entropy model for predicting the viscosities of dense fluid mixtures. <i>Journal of Chemical Physics</i> , 2020 , 152, 164104	3.9	12
76	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. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 4099-4109	2.8	12
75	Experimental and molecular modelling study of the three-phase behaviour of (propane+carbon dioxide+water) at reservoir conditions. <i>Journal of Supercritical Fluids</i> , 2013 , 75, 30-42	4.2	12
74	Improved Understanding of Vibrating-Wire ViscometerDensimeters. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2195-2201	2.8	12
73	Interaction second acoustic virial coefficients of (N ₂ + Ar) between 90 and 373 K. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 184, 437-450	3.3	12
72	Intermolecular forces from the speed of sound. <i>Molecular Physics</i> , 1987 , 60, 681-690	1.7	12
71	Thermophysical Properties and Phase Behavior of Fluids for Application in Carbon Capture and Storage Processes. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017 , 8, 381-402	8.9	11
70	Brine chemistry effects in calcite dissolution kinetics at reservoir conditions. <i>Chemical Geology</i> , 2019 , 509, 92-102	4.2	11
69	Measurement and modeling of the viscosity of (nitrogen + carbon dioxide) mixtures at temperatures from (253.15 to 473.15) K with pressures up to 2 MPa. <i>Journal of Chemical Thermodynamics</i> , 2018 , 120, 191-204	2.9	11
68	Rheology and Phase Behavior of Carbon Dioxide and Crude Oil Mixtures. <i>Energy & Fuels</i> , 2017 , 31, 5776-5784	4.1	11
67	Helmholtz energy, extended corresponding states and local composition model for fluid mixtures. <i>Fluid Phase Equilibria</i> , 2004 , 224, 125-142	2.5	11
66	Phase behavior and physical properties of petroleum reservoir fluids from acoustic measurements. <i>Journal of Petroleum Science and Engineering</i> , 2002 , 34, 1-11	4.4	11
65	Novel optical flow cell for measurements of fluid phase behaviour. <i>Fluid Phase Equilibria</i> , 2005 , 228-229, 233-238	2.5	11
64	Densities and bubble points of ternary mixtures of methane, n-butane and n-hexadecane and quaternary mixtures of methane, n-butane, n-heptane and n-hexadecane. <i>Fluid Phase Equilibria</i> , 2001 , 182, 111-119	2.5	10
63	Supercritical adsorption in micro- and meso-porous carbons and its utilisation for textural characterisation. <i>Microporous and Mesoporous Materials</i> , 2020 , 308, 110537	5.3	10

62	Measurement and modelling of the vapor-liquid equilibrium of (CO ₂ + CO) at temperatures between (218.15 and 302.93) K at pressures up to 15 MPa. <i>Journal of Chemical Thermodynamics</i> , 2018 , 126, 63-73	2.9	10
61	Phase Behavior of the System (Carbon Dioxide + n-Heptane + Methylbenzene): A Comparison between Experimental Data and SAFT- ϵ Mie Predictions. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 2826-2836	2.8	9
60	Circulating pump for high-pressure and high-temperature applications. <i>Review of Scientific Instruments</i> , 2005 , 76, 105103	1.7	9
59	The speed of sound in gases II. Acoustic virial coefficients and perfect-gas heat capacities for 2,2-dimethylpropane obtained using a cylindrical interferometer. <i>Journal of Chemical Thermodynamics</i> , 1986 , 18, 511-517	2.9	9
58	Density and Viscosity of Partially Carbonated Aqueous Solutions Containing a Tertiary Alkanolamine and Piperazine at Temperatures between 298.15 and 353.15 K. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 2075-2083	2.8	8
57	Surrogate Models for Studying the Wettability of Nanoscale Natural Rough Surfaces Using Molecular Dynamics. <i>Energies</i> , 2020 , 13, 2770	3.1	8
56	Shape factors for the light hydrocarbons. <i>Fluid Phase Equilibria</i> , 1998 , 150-151, 225-234	2.5	8
55	The speed of sound in gases I. A cylindrical interferometer and the speed of sound in argon and in krypton. <i>Journal of Chemical Thermodynamics</i> , 1985 , 17, 549-559	2.9	8
54	Predicting the viscosity of liquid refrigerant blends: comparison with experimental data. <i>International Journal of Refrigeration</i> , 2005 , 28, 311-319	3.8	7
53	Identification of environmentally acceptable low-sound speed liquids. <i>International Journal of Thermophysics</i> , 1995 , 16, 675-685	2.1	7
52	The inversion of second virial coefficients for polyatomic molecules. <i>Molecular Physics</i> , 1986 , 57, 1075-1081	1.7	7
51	Experimental density and an improved Helmholtz-energy-explicit mixture model for (CO ₂ + CO). <i>Applied Energy</i> , 2019 , 251, 113398	10.7	6
50	Speed of sound and derived thermodynamic properties of para-xylene at temperatures between (306 and 448) K and at pressures up to 66 MPa. <i>Journal of Chemical Thermodynamics</i> , 2019 , 135, 369-381	2.9	6
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