# J P Martin Trusler

List of Publications by Year
in descending order



| 187 | 9,235 | 53660 45 | 46693 89 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 204 | 204 | 204 | 6926 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Carbon capture and storage (CCS): the way forward. Energy and Environmental Science, 2018, 11, 1062-1176. | 15.6 | 2,378 |
| 2 | Improvement of Quality in Publication of Experimental Thermophysical Property Data: Challenges, Assessment Tools, Global Implementation, and Online Support. Journal of Chemical & Engineering Data, 2013, 58, 2699-2716. | 1.0 | 236 |
| 3 | Measurement of the universal gas-constant R using a spherical acoustic resonator. Journal of Research of the National Bureau of Standards (United States), 1988, 93, 85. | 0.3 | 218 |
| 4 | Interfacial Tension Measurements of the (H<sub>2</sub>O + CO<sub>2</sub>) System at Elevated Pressures and Temperatures. Journal of Chemical & Engineering Data, 2010, 55, 4168-4175. | 1.0 | 217 |
| 5 | 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 |
| 6 | Diffusion Coefficients of CO<sub>2</sub> and N<sub>2</sub> in Water at Temperatures between 298.15 K and 423.15 K at Pressures up to 45 MPa. Journal of Chemical & Engineering Data, 2014, 59, 519-525. | 1.0 | 156 |
| 7 | Interfacial Tension of (Brines + CO<sub>2</sub>): (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) molÂ·kg<sup>â€“1</sup>. Journal of Chemical & Engineering Data, 2012, 57, 1078-1088. | 1.0 | 155 |
| 8 | Measurement and modeling of the phase behavior of the (carbon dioxide+water) mixture at temperatures from 298.15K to 448.15K. Journal of Supercritical Fluids, 2013, 73, 87-96. | 1.6 | 152 |
| 9 | Measurement of the Universal Gas ConstantRUsing a Spherical Acoustic Resonator. Physical Review Letters, 1988, 60, 249-252. | 2.9 | 133 |
| 10 | The pH of CO2-saturated water at temperatures between 308K and 423K at pressures up to 15MPa. Journal of Supercritical Fluids, 2013, 82, 129-137. | 1.6 | 132 |
| 11 | Perspective on the hydrogen economy as a pathway to reach net-zero CO<sub>2</sub>emissions in Europe. Energy and Environmental Science, 2022, 15, 1034-1077. | 15.6 | 132 |
| 12 | 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 |
| 13 | Interfacial tension measurements and modelling of (carbon dioxide+n-alkane) and (carbon) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T<br>Fluids, 2010, 55, 743-754. | 1.6 | 120 |
| 14 | High Pressure Electrochemical Reduction of CO<sub>2</sub> to Formic Acid/Formate: A Comparison between Bipolar Membranes and Cation Exchange Membranes. Industrial & Engineering Chemistry Research, 2019, 58, 1834-1847. | 1.8 | 116 |
| 15 | Hydrogen liquefaction: a review of the fundamental physics, engineering practice and future opportunities. Energy and Environmental Science, 2022, 15, 2690-2731. | 15.6 | 106 |
| 16 | Solubility of carbon dioxide in aqueous solution of monoethanolamine or 2-amino-2-methyl-1-propanol: Experimental measurements and modelling. International Journal of Greenhouse Gas Control, 2012, 6, 37-47. | 2.3 | 88 |
| 17 | The speed of sound and derived thermodynamic properties of methane at temperatures between 275 K and 375 K and pressures up to 10 MPa. Journal of Chemical Thermodynamics, 1992, 24, 973-991. | 1.0 | 87 |
| 18 | Kinetics of calcite dissolution in CO2-saturated water at temperatures between (323 and 373) K and pressures up to 13.8 MPa. Chemical Geology, 2015, 403, 74-85. | 1.4 | 85 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Title is missing!. International Journal of Thermophysics, 2001, 22, 427-443. | 1.0 | 84 |
| 20 | Solubility of CO<sub>2</sub> in Aqueous Solutions of CaCl<sub>2</sub> or MgCl<sub>2</sub> and in a Synthetic Formation Brine at Temperatures up to 423 K and Pressures up to 40 MPa. Journal of Chemical & Engineering Data, 2013, 58, 2116-2124. | 1.0 | 84 |
| 21 | High-Pressure Electrochemical Reduction of CO<sub>2</sub> to Formic Acid/Formate: Effect of pH on the Downstream Separation Process and Economics. Industrial & Engineering Chemistry Research, 2019, 58, 22718-22740. | 1.8 | 84 |
| 22 | Interfacial Tension Measurements of the (H<sub>2</sub>O + n-Decane + CO<sub>2</sub>) Ternary System at Elevated Pressures and Temperatures. Journal of Chemical & Engineering Data, 2011, 56, 4900-4908. | 1.0 | 83 |
| 23 | Densities of Aqueous MgCl<sub>2</sub>(aq), CaCl<sub>2</sub>(aq), KI(aq), NaCl(aq), KCl(aq), AlCl<sub>3</sub>(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 molÂ·kg<sup>â€“1</sup>. Journal of Chemical & Engineering Data, 2012, 57, 1288-1304. | 1.0 | 83 |
| 24 | Interfacial Tension of (Brines + CO<sub>2</sub>): CaCl<sub>2</sub>(aq), MgCl<sub>2</sub>(aq), and Na<sub>2</sub>SO<sub>4</sub>(aq) at Temperatures between (343 and 423) K, Pressures between (2) Tj ETQq0 0 0 rgBT /Overlock 1 Data, 2012, 57, 1369-1375. | 1.0 | 80 |
| 25 | Interfacial tensions of (H2OÂ+ H2) and (H2OÂ+ CO2Â+ H2) systems at temperatures of (298â€“448) K and pressures up to 45â€¯MPa. Fluid Phase Equilibria, 2018, 475, 37-44. | 1.4 | 79 |
| 26 | The speed of sound and derived thermodynamic properties of pure water at temperatures between (253) Tj ETQq0 0 0 rgBT /Overlock 1 | 1.2 | 78 |
| 27 | Molecular Dynamics Simulations of CO<sub>2</sub> and Brine Interfacial Tension at High Temperatures and Pressures. Journal of Physical Chemistry B, 2013, 117, 5647-5652. | 1.2 | 74 |
| 28 | Second acoustic virial coefficients of nitrogen between 80 and 373 K. Physica A: Statistical Mechanics and Its Applications, 1992, 184, 415-436. | 1.2 | 70 |
| 29 | Measurement of the Viscosity and Density of Two Reference Fluids, with Nominal Viscosities atT= 298 K andp= 0.1 MPa of (16 and 29) mPaÂ·s, at Temperatures between (298 and 393) K and Pressures below 55 MPa. Journal of Chemical & Engineering Data, 2005, 50, 1377-1388. | 1.0 | 69 |
| 30 | Experimental and modeling study of the phase behavior of synthetic crude oil+CO2. Fluid Phase Equilibria, 2014, 365, 20-40. | 1.4 | 63 |
| 31 | The speed of sound in gaseous argon at temperatures between 110 K and 450 K and at pressures up to 19 MPa. Journal of Chemical Thermodynamics, 1995, 27, 1075-1089. | 1.0 | 61 |
| 32 | Thermophysical properties of alkanes from speeds of sound determined using a spherical resonator 2. n-Butane. Journal of Chemical Thermodynamics, 1988, 20, 243-256. | 1.0 | 60 |
| 33 | Phase behavior of (CO2+H2) and (CO2+N2) at temperatures between (218.15 and 303.15)K at pressures up to 15MPa. International Journal of Greenhouse Gas Control, 2015, 36, 78-92. | 2.3 | 57 |
| 34 | Viscosity and Density of Aqueous Solutions of Carbon Dioxide at Temperatures from (274 to 449) K and at Pressures up to 100 MPa. Journal of Chemical & Engineering Data, 2015, 60, 171-180. | 1.0 | 57 |
| 35 | 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. Journal of Chemical Thermodynamics, 2016, 93, 392-403. | 1.0 | 56 |
| 36 | Extended hard-sphere model for the viscosity of dense fluids. Fluid Phase Equilibria, 2014, 363, 239-247. | 1.4 | 54 |

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| 37 | 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. Journal of Chemical Thermodynamics, 1997, 29, 991-1015. | 1.0 | 53 |
| 38 | Atomistic Molecular Dynamics Simulations of Carbon Dioxide Diffusivity in n-Hexane, n-Decane, n-Hexadecane, Cyclohexane, and Squalane. Journal of Physical Chemistry B, 2016, 120, 12890-12900. | 1.2 | 53 |
| 39 | Experimental and Modeling Study of the Phase Behavior of (Methane + CO<sub>2</sub> + Water) Mixtures. Journal of Physical Chemistry B, 2014, 118, 14461-14478. | 1.2 | 52 |
| 40 | The Temperature-Jump Effect and the Theory of the Thermal Boundary Layer for a Spherical Resonator. Speeds of Sound in Argon at 273.16K. Metrologia, 1986, 22, 93-102. | 0.6 | 51 |
| 41 | Physical apparatus parameters and model for vibrating tube densimeters at pressures to 140 MPa and temperatures to 473 K. Review of Scientific Instruments, 2014, 85, 095111. | 0.6 | 51 |
| 42 | Thermophysical properties of alkanes from speeds of sound determined using a spherical resonator I. Apparatus, acoustic model, and results for dimethylpropane. Journal of Chemical Thermodynamics, 1987, 19, 721-739. | 1.0 | 48 |
| 43 | Thermophysical properties of alkanes from speeds of sound determined using a spherical resonator 3. n-Pentane. Journal of Chemical Thermodynamics, 1989, 21, 867-877. | 1.0 | 48 |
| 44 | Vapor Pressure and Density of Thermotropic Liquid Crystals:â€‰ MBBA, 5CB, and Novel Fluorinated Mesogens. Journal of Physical Chemistry B, 2008, 112, 3918-3926. | 1.2 | 47 |
| 45 | Solubility of carbon dioxide in aqueous blends of 2-amino-2-methyl-1-propanol and piperazine. Chemical Engineering Science, 2013, 101, 851-864. | 1.9 | 47 |
| 46 | Density and Viscosity of Partially Carbonated Aqueous Tertiary Alkanolamine Solutions at Temperatures between (298.15 and 353.15) K. Journal of Chemical & Engineering Data, 2015, 60, 2392-2399. | 1.0 | 47 |
| 47 | 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. Fluid Phase Equilibria, 2016, 407, 159-176. | 1.4 | 47 |
| 48 | Viscosity and Density of Carbon Dioxide + 2,6,10,15,19,23-Hexamethyltetracosane (Squalane). Journal of Chemical & Engineering Data, 2009, 54, 2436-2443. | 1.0 | 46 |
| 49 | Accurate Acoustic Thermometry I: The Triple Point of Gallium. Metrologia, 1988, 25, 165-187. | 0.6 | 45 |
| 50 | Thermodynamic properties of gaseous argon at temperatures between 110 and 450 K and densities up to 6.8 mol ï¿½ dm?3 determined from the speed of sound. International Journal of Thermophysics, 1996, 17, 1325-1347. | 1.0 | 44 |
| 51 | New Experimental Data and Reference Models for the Viscosity and Density of Squalane. Journal of Chemical & Engineering Data, 2015, 60, 137-150. | 1.0 | 44 |
| 52 | Speed of sound in carbon dioxide at temperatures between (220 and 450) K and pressures up to 14 MPa. Journal of Chemical Thermodynamics, 1998, 30, 1589-1601. | 1.0 | 43 |
| 53 | An Industrial Reference Fluid for Moderately High Viscosity. Journal of Chemical & Engineering Data, 2008, 53, 2003-2011. | 1.0 | 43 |
| 54 | 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. Journal of Chemical & Engineering Data, 2017, 62, 422-439. | 1.0 | 43 |

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| 55 | Phase behaviour of mixed-gas hydrate systems containing carbon dioxide. Journal of Chemical Thermodynamics, 2010, 42, 605-611. | 1.0 | 42 |
| 56 | Application of a renormalization-group treatment to the statistical associating fluid theory for potentials of variable range (SAFT-VR). Journal of Chemical Physics, 2011, 134, 154102. | 1.2 | 42 |
| 57 | Phase equilibria of (CO2+H2O+NaCl) and (CO2+H2O+KCl): Measurements and modeling. Journal of Supercritical Fluids, 2013, 78, 78-88. | 1.6 | 42 |
| 58 | Saturated phase densities of (CO 2 + H 2 O) at temperatures from (293 to 450) K and pressures up to 64 MPa. Journal of Chemical Thermodynamics, 2016, 93, 347-359. | 1.0 | 42 |
| 59 | Primary acoustic thermometry betweenT= 90 K andT= 300 K. Journal of Chemical Thermodynamics, 2000, 32, 1229-1255. | 1.0 | 41 |
| 60 | Thermodynamics of carbon dioxide-hydrocarbon systems. Applied Energy, 2018, 220, 629-642. | 5.1 | 39 |
| 61 | A kinetic theory description of the viscosity of dense fluids consisting of chain molecules. Journal of Chemical Physics, 2008, 128, 204901. | 1.2 | 38 |
| 62 | Composition Analysis and Viscosity Prediction of Complex Fuel Mixtures Using a Molecular-Based Approach. Energy & Fuels, 2012, 26, 2220-2230. | 2.5 | 38 |
| 63 | The effect of pH, dilution, and temperature on the viscosity of ocular lubricantsâ€”shift in rheological parameters and potential clinical significance. Eye, 2012, 26, 1579-1584. | 1.1 | 38 |
| 64 | Speeds of sound in CF4 between 175 and 300 K measured with a spherical resonator. Journal of Chemical Physics, 1989, 90, 1106-1115. | 1.2 | 37 |
| 65 | Prediction of the viscosity of dense fluid mixtures. Molecular Physics, 2003, 101, 339-352. | 0.8 | 37 |
| 66 | The speed of sound in (0.8CH4 + 0.2C2H6)(g) at temperatures between 200 K and 375 K and amount-of-substance densities up to 5 molÂ·dm-3. Journal of Chemical Thermodynamics, 1994, 26, 751-763. | 1.0 | 36 |
| 67 | Equation of State for Solid Phase I of Carbon Dioxide Valid for Temperatures up to 800 K and Pressures up to 12 GPa. Journal of Physical and Chemical Reference Data, 2011, 40, . | 1.9 | 35 |
| 68 | Electroreduction of CO<sub>2</sub>/CO to C<sub>2</sub> Products: Process Modeling, Downstream Separation, System Integration, and Economic Analysis. Industrial & Engineering Chemistry Research, 2021, 60, 17862-17880. | 1.8 | 35 |
| 69 | 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. Journal of Chemical Thermodynamics, 2006, 38, 916-922. | 1.0 | 34 |
| 70 | 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 |
| 71 | The speed of sound in gaseous propane at temperatures between 225 K and 375 K and at pressures up to 0.8 MPa. Journal of Chemical Thermodynamics, 1996, 28, 329-335. | 1.0 | 33 |
| 72 | Experimental and Molecular Modeling Study of the Three-Phase Behavior of (n-Decane + Carbon) Tj ETQq0 0 0 rgBT /Overlock 10 | 1.2 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Densities and bubble points of binary mixtures of carbon dioxide and n-heptane and ternary mixtures of n-butane, n-heptane and n-hexadecane. Fluid Phase Equilibria, 2001, 185, 349-358. | 1.4 | 32 |
| 74 | Determination of thermodynamic properties from the speed of sound. International Journal of Thermophysics, 1995, 16, 663-673. | 1.0 | 31 |
| 75 | Thermodynamic properties of mixtures of N-methyl-2-pyrrolidinone and methanol at temperatures between 298.15K and 343.15K and pressures up to 60MPa. Journal of Chemical Thermodynamics, 2009, 41, 35-45. | 1.0 | 31 |
| 76 | Second acoustic virial coefficients of argon between 100 and 304 K. Physica A: Statistical Mechanics and Its Applications, 1989, 156, 899-908. | 1.2 | 30 |
| 77 | Equation of state for gaseous propane determined from the speed of sound. International Journal of Thermophysics, 1997, 18, 635-654. | 1.0 | 30 |
| 78 | 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. Journal of Chemical Thermodynamics, 2010, 42, 631-639. | 1.0 | 30 |
| 79 | Extended corresponding states model for fluids and fluid mixtures. Fluid Phase Equilibria, 2004, 216, 59-84. | 1.4 | 28 |
| 80 | Guidelines for reporting of phase equilibrium measurements (IUPAC Recommendations 2012). Pure and Applied Chemistry, 2012, 84, 1785-1813. | 0.9 | 27 |
| 81 | Microwave Measurements of the Thermal Expansion of a Spherical Cavity. Metrologia, 1988, 25, 211-219. | 0.6 | 26 |
| 82 | Speeds of sound in {(1â˜'x)CH4+xN2} with x=(0.10001, 0.19999, and 0.5422) at temperatures between 170K and 400K and pressures up to 30MPa. Journal of Chemical Thermodynamics, 2006, 38, 929-937. | 1.0 | 26 |
| 83 | Viscosity of liquid mixtures: The Vesovic-Wakeham method for chain molecules. Journal of Chemical Physics, 2012, 136, 074514. | 1.2 | 26 |
| 84 | Diffusion Coefficients of Carbon Dioxide in Brines Measured Using <sup>13</sup>C Pulsed-Field Gradient Nuclear Magnetic Resonance. Journal of Chemical & Engineering Data, 2015, 60, 181-184. | 1.0 | 26 |
| 85 | Diffusion Coefficients of Carbon Dioxide in Eight Hydrocarbon Liquids at Temperatures between (298.15 and 423.15) K at Pressures up to 69 MPa. Journal of Chemical & Engineering Data, 2016, 61, 3922-3932. | 1.0 | 26 |
| 86 | Model intermolecular potentials and virial coefficients determined from the speed of sound. Molecular Physics, 1997, 90, 695-704. | 0.8 | 25 |
| 87 | Experimental and Modeling Study of the Phase Behavior of (Heptane + Carbon Dioxide + Water) Mixtures. Journal of Chemical & Engineering Data, 2015, 60, 3670-3681. | 1.0 | 24 |
| 88 | The pH of CO2-saturated aqueous NaCl and NaHCO3 solutions at temperatures between 308ÂK and 373ÂKÂat pressures up to 15ÂMPa. Fluid Phase Equilibria, 2018, 458, 253-263. | 1.4 | 24 |
| 89 | Wettability of calcite under carbon storage conditions. International Journal of Greenhouse Gas Control, 2019, 84, 180-189. | 2.3 | 24 |
| 90 | 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 |

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|---|---|---|---|
| 91 | 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. Fluid Phase Equilibria, 2013, 337, 274-287. | 1.4 | 23 |
| 92 | Viscosity of Liquid Di-isodecyl Phthalate at Temperatures Between (274 and 373) K and at Pressures up to 140 MPa. Journal of Chemical & Engineering Data, 2011, 56, 2236-2241. | 1.0 | 22 |
| 93 | 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. | 1.0 | 22 |
| 94 | Kinetics of carbonate mineral dissolution in CO<sub>2</sub>-acidified brines at storage reservoir conditions. Faraday Discussions, 2016, 192, 545-560. | 1.6 | 22 |
| 95 | 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 390â€¯MPa. Journal of Chemical Thermodynamics, 2018, 124, 107-122. | 1.0 | 22 |
| 96 | Heat capacities and densities of the binary mixtures containing ethanol, cyclohexane or 1-hexene at high pressures. Journal of Chemical Thermodynamics, 2013, 57, 550-557. | 1.0 | 21 |
| 97 | On the analysis of acoustic resonance measurement. Journal of the Acoustical Society of America, 1989, 85, 1780-1782. | 0.5 | 20 |
| 98 | 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. Journal of Chemical Thermodynamics, 1998, 30, 1121-1129. | 1.0 | 20 |
| 99 | Measurement and modeling of the viscosity of (nitrogenâ€¯+â€¯carbon dioxide) mixtures at temperatures from (253.15 to 473.15)â€¯K with pressures up to 2â€¯MPa. Journal of Chemical Thermodynamics, 2018, 120, 191-204. | 1.0 | 20 |
| 100 | Residual entropy model for predicting the viscosities of dense fluid mixtures. Journal of Chemical Physics, 2020, 152, 164104. | 1.2 | 20 |
| 101 | Solubility of hydrogen in sodium chloride brine at high pressures. Fluid Phase Equilibria, 2021, 539, 113025. | 1.4 | 20 |
| 102 | Acoustic and Volumetric Virial Coefficients of Nitrogen. International Journal of Thermophysics, 2000, 21, 1033-1044. | 1.0 | 19 |
| 103 | Influence of Lactic Acid on the Formation of Aqueous Two-Phase Systems Containing Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.0 | 19 |
| 104 | Determination of the thermodynamic properties of water from the speed of sound. Journal of Chemical Thermodynamics, 2017, 109, 61-70. | 1.0 | 19 |
| 105 | Second and third acoustic virial coefficients of methane at temperatures between 125 K and 375 K. Journal of Chemical Thermodynamics, 1995, 27, 771-778. | 1.0 | 18 |
| 106 | Heat transfer in pure critical fluids surrounded by finitely conducting boundaries in microgravity. Physica A: Statistical Mechanics and Its Applications, 1997, 242, 119-140. | 1.2 | 18 |
| 107 | Phase behaviour and density of (methane+n-butane). Fluid Phase Equilibria, 1999, 163, 139-156. | 1.4 | 18 |
| 108 | Extended corresponding states equation of state for natural gas systems. Fluid Phase Equilibria, 2001, 183-184, 21-29. | 1.4 | 18 |

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| 109 | Phase behavior and physical properties of petroleum reservoir fluids from acoustic measurements. Journal of Petroleum Science and Engineering, 2002, 34, 1-11. | 2.1 | 18 |
| 110 | Rheology of Diluted Heavy Crude Oil Saturated with Carbon Dioxide. Energy & Fuels, 2015, 29, 2785-2789. | 2.5 | 18 |
| 111 | Supercritical adsorption in micro- and meso-porous carbons and its utilisation for textural characterisation. Microporous and Mesoporous Materials, 2020, 308, 110537. | 2.2 | 18 |
| 112 | Interaction second acoustic virial coefficients of (N2 + Ar) between 90 and 373 K. Physica A: Statistical Mechanics and Its Applications, 1992, 184, 437-450. | 1.2 | 17 |
| 113 | Extended corresponding states model for fluids and fluid mixtures. Fluid Phase Equilibria, 2003, 204, 15-40. | 1.4 | 17 |
| 114 | A robust vibrating wire viscometer for reservoir fluids: results for toluene and n-decane. Journal of Petroleum Science and Engineering, 2004, 44, 333-340. | 2.1 | 17 |
| 115 | Rheology and Phase Behavior of Carbon Dioxide and Crude Oil Mixtures. Energy & Fuels, 2017, 31, 5776-5784. | 2.5 | 17 |
| 116 | Improved Understanding of Vibrating-Wire Viscometerâ˜Densimeters. Journal of Chemical & Engineering Data, 2010, 55, 2195-2201. | 1.0 | 16 |
| 117 | Thermophysical Properties and Phase Behavior of Fluids for Application in Carbon Capture and Storage Processes. Annual Review of Chemical and Biomolecular Engineering, 2017, 8, 381-402. | 3.3 | 16 |
| 118 | Measurement and modelling of the vaporâ€“liquid equilibrium of (CO2â€¯+â€¯CO) at temperatures between (218.15 and 302.93)â€¯K at pressures up to 15â€¯MPa. Journal of Chemical Thermodynamics, 2018, 126, 63-73. | 1.0 | 16 |
| 119 | Intermolecular forces from the speed of sound. Molecular Physics, 1987, 60, 681-690. | 0.8 | 15 |
| 120 | Densities of SrCl<sub>2</sub>(aq), Na<sub>2</sub>SO<sub>4</sub>(aq), NaHCO<sub>3</sub>(aq), and Two Synthetic Reservoir Brines at Temperatures between (298 and 473) K, Pressures up to 68.5 MPa, and Molalities up to 3 molÂ·kg<sup>â€“1</sup>. Journal of Chemical & Engineering Data, 2013, 58, 402-412. | 1.0 | 15 |
| 121 | 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. Journal of Chemical & Engineering Data, 2015, 60, 2363-2370. | 1.0 | 15 |
| 122 | Brine chemistry effects in calcite dissolution kinetics at reservoir conditions. Chemical Geology, 2019, 509, 92-102. | 1.4 | 15 |
| 123 | Virial equation of state for natural gas systems. Fluid Phase Equilibria, 2003, 204, 169-182. | 1.4 | 14 |
| 124 | Phase equilibria of (Methylbenzene + Carbon dioxide + Methane) at elevated pressure: Experiment and modelling. Journal of Supercritical Fluids, 2019, 145, 1-9. | 1.6 | 14 |
| 125 | Experimental and molecular modelling study of the three-phase behaviour of (propane+carbon) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.6 | 13 |
| 126 | The speed of sound in gases II. Acoustic virial coefficients and perfect-gas heat capacities for 2,2-dimethylpropane obtained using a cylindrical interferometer. Journal of Chemical Thermodynamics, 1986, 18, 511-517. | 1.0 | 12 |

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| 127 | Helmholtz energy, extended corresponding states and local composition model for fluid mixtures. Fluid Phase Equilibria, 2004, 224, 125-142. | 1.4 | 12 |
| 128 | Novel optical flow cell for measurements of fluid phase behaviour. Fluid Phase Equilibria, 2005, 228-229, 233-238. | 1.4 | 12 |
| 129 | The speed of sound in gases I. A cylindrical interferometer and the speed of sound in argon and in krypton. Journal of Chemical Thermodynamics, 1985, 17, 549-559. | 1.0 | 11 |
| 130 | Density and Viscosity of Partially Carbonated Aqueous Solutions Containing a Tertiary Alkanolamine and Piperazine at Temperatures between 298.15 and 353.15 K. Journal of Chemical & Engineering Data, 2017, 62, 2075-2083. | 1.0 | 11 |
| 131 | Surrogate Models for Studying the Wettability of Nanoscale Natural Rough Surfaces Using Molecular Dynamics. Energies, 2020, 13, 2770. | 1.6 | 11 |
| 132 | Shape factors for the light hydrocarbons. Fluid Phase Equilibria, 1998, 150-151, 225-234. | 1.4 | 10 |
| 133 | 3 The virial equation of state. Experimental Thermodynamics, 2000, 5, 35-74. | 0.1 | 10 |
| 134 | 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. Fluid Phase Equilibria, 2001, 182, 111-119. | 1.4 | 10 |
| 135 | Phase Behavior of the System (Carbon Dioxide + n-Heptane + Methylbenzene): A Comparison between Experimental Data and SAFT-Î³-Mie Predictions. Journal of Chemical & Engineering Data, 2017, 62, 2826-2836. | 1.0 | 10 |
| 136 | Experimental density and an improved Helmholtz-energy-explicit mixture model for (CO2â€¯+â€¯CO). Applied Energy, 2019, 251, 113398. | 5.1 | 10 |
| 137 | Speed of sound and derived thermodynamic properties of para-xylene at temperatures between (306) Tj ETQq1 1 0.784314 rgBT /Ove | 1.0 | 10 |
| 138 | Speed of sound in (0.4C2H6+ 0.6CO2) at temperatures betweenT= 220 K andT=450 K and pressures up top=1.2 MPa. Journal of Chemical Thermodynamics, 1999, 31, 685-695. | 1.0 | 9 |
| 139 | Circulating pump for high-pressure and high-temperature applications. Review of Scientific Instruments, 2005, 76, 105103. | 0.6 | 9 |
| 140 | Cloud Curves of Polystyrene or Poly(methyl methacrylate) or Poly(styrene-co-methyl methacrylate) in Cyclohexanol Determined with a Thermo-Optical Apparatus. Journal of Chemical & Engineering Data, 2006, 51, 743-748. | 1.0 | 9 |
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