

Geoff Maitland

List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 94 papers | 5,542 citations | 38 h-index | 73 g-index |
| 97 ext. papers | 6,598 ext. citations | 5.1 avg, IF | 5.74 L-index |

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 94 | Carbon capture and storage (CCS): the way forward. <i>Energy and Environmental Science</i> , 2018 , 11, 1062-1136 | 35.4 | 1368 |
| 93 | The role of CO ₂ capture and utilization in mitigating climate change. <i>Nature Climate Change</i> , 2017 , 7, 243-249 | 21.4 | 436 |
| 92 | 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 |
| 91 | Oil and gas production. <i>Current Opinion in Colloid and Interface Science</i> , 2000 , 5, 301-311 | 7.6 | 163 |
| 90 | Rheology, Cryogenic Transmission Electron Spectroscopy, and Small-Angle Neutron Scattering of Highly Viscoelastic Wormlike Micellar Solutions. <i>Langmuir</i> , 2003 , 19, 8536-8541 | 4 | 162 |
| 89 | Critical reassessment of viscosities of 11 common gases. <i>Journal of Chemical & Engineering Data</i> , 1972 , 17, 150-156 | 2.8 | 141 |
| 88 | Hydration of tricalcium aluminate (C3A) in the presence and absence of gypsum studied by Raman spectroscopy and X-ray diffraction. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1263 | | 121 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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 |
| 82 | Prediction of the Salting-Out Effect of Strong Electrolytes on Water + Alkane Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 3809-3823 | 3.9 | 92 |
| 81 | Giant micellar worms under shear: a rheological study using SANS. <i>Langmuir</i> , 2005 , 21, 6762-8 | 4 | 87 |
| 80 | 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 |
| 79 | Rheology modification in mixed shape colloidal dispersions. Part I: pure components. <i>Soft Matter</i> , 2007 , 3, 1145-1162 | 3.6 | 65 |
| 78 | 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 |

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|----|--|-----|----|
| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | Synergistic Effects in Aqueous Solutions of Mixed Wormlike Micelles and Hydrophobically Modified Polymers. <i>Macromolecules</i> , 2005 , 38, 5271-5282 | 5.5 | 61 |
| 73 | Growth and scission energy of wormlike micelles formed by a cationic surfactant with long unsaturated tails. <i>Langmuir</i> , 2004 , 20, 9541-50 | 4 | 61 |
| 72 | Thermal conductivity of toluene in the temperature range 3590°C at pressures up to 600 MPa. <i>International Journal of Thermophysics</i> , 1983 , 4, 311-327 | 2.1 | 58 |
| 71 | 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 |
| 70 | Smectite clay-inorganic nanoparticle mixed suspensions: phase behaviour and rheology. <i>Soft Matter</i> , 2015 , 11, 222-36 | 3.6 | 53 |
| 69 | Generalized equation of state for square-well potentials of variable range. <i>Molecular Physics</i> , 2005 , 103, 129-139 | 1.7 | 53 |
| 68 | Design of a novel flat-plate photobioreactor system for green algal hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 6578-6591 | 6.7 | 52 |
| 67 | Ageing of oilfield cement at high humidity: a combined FEG-ESEM and Raman microscopic investigation. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3105-3112 | | 50 |
| 66 | An essentially exact evaluation of transport cross-sections for a model of the helium-nitrogen interaction. <i>Molecular Physics</i> , 1987 , 61, 359-387 | 1.7 | 50 |
| 65 | 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 |
| 64 | 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 |
| 63 | Impacting the length of wormlike micelles using mixed surfactant systems. <i>Langmuir</i> , 2004 , 20, 7984-90 | 4 | 46 |
| 62 | Viscosities of binary gas mixtures at high temperatures. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1974 , 70, 1191 | | 46 |
| 61 | 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 |
| 60 | Modelling of light and temperature influences on cyanobacterial growth and biohydrogen production. <i>Algal Research</i> , 2015 , 9, 263-274 | 5 | 40 |

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| 59 | Viscosity and Density of Carbon Dioxide + 2,6,10,15,19,23-Hexamethyltetracosane (Squalane) □ <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 2436-2443 | 2.8 | 40 |
| 58 | The forces between simple molecules. <i>Chemical Society Reviews</i> , 1973 , 2, 181 | 58.5 | 39 |
| 57 | 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 |
| 56 | Parameters affecting the growth and hydrogen production of the green alga <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7872-7876 | 6.7 | 38 |
| 55 | Relationship between wetting and capillary pressure in a crude oil/brine/rock system: From nano-scale to core-scale. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 159-169 | 9.3 | 38 |
| 54 | 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 |
| 53 | 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 |
| 52 | The Thermal Conductivity of n-Hexane and n-Octane at Pressures up to 0.64 GPa in the Temperature Range 340-500°C. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1984 , 88, 32-36 | | 36 |
| 51 | High temperature viscosities and intermolecular forces of quasi-spherical molecules. <i>Transactions of the Faraday Society</i> , 1970 , 66, 1955 | | 36 |
| 50 | Effects of light and temperature on the photoautotrophic growth and photoinhibition of nitrogen-fixing cyanobacterium <i>Cyanothece</i> sp. ATCC 51142. <i>Algal Research</i> , 2014 , 5, 103-111 | 5 | 33 |
| 49 | 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 |
| 48 | The Thermal Conductivity of Argon, Nitrogen and Carbon Monoxide in the Temperature Range 300-500 K at Pressures up to 10 MPa. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1983 , 87, 657-663 | | 33 |
| 47 | Rheology modification in mixed shape colloidal dispersions. Part II: mixtures. <i>Soft Matter</i> , 2008 , 4, 337-348 | 3.8 | 32 |
| 46 | 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 |
| 45 | Pressurized calcium looping in the presence of steam in a spout-fluidized-bed reactor with DFT analysis. <i>Fuel Processing Technology</i> , 2018 , 169, 24-41 | 7.2 | 28 |
| 44 | Fourier Transform Infrared Spectroscopic Techniques to Investigate Surface Hydration Processes on Bentonite. <i>Journal of Colloid and Interface Science</i> , 1995 , 176, 308-317 | 9.3 | 28 |
| 43 | Second-order approximations for the transport properties of dilute polyatomic gases. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1983 , 79, 1425 | | 28 |
| 42 | Process and reactor design for biophotolytic hydrogen production. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10783-94 | 3.6 | 27 |

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| 41 | Dynamic modelling of high biomass density cultivation and biohydrogen production in different scales of flat plate photobioreactors. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2429-38 | 4.9 | 26 |
| 40 | Molecular design of responsive fluids: molecular dynamics studies of viscoelastic surfactant solutions. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 9413-9430 | 1.8 | 25 |
| 39 | A novel nutrient control method to deprive green algae of sulphur and initiate spontaneous hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8988-9001 | 6.7 | 24 |
| 38 | Transient hot-wire measurements of the thermal conductivity of gases at elevated temperatures. <i>International Journal of Thermophysics</i> , 1986 , 7, 245-258 | 2.1 | 24 |
| 37 | Thermal conductivity of benzene and cyclohexane in the temperature range 360-400 °C at pressures up to 0.33 GPa. <i>International Journal of Thermophysics</i> , 1984 , 5, 351-365 | 2.1 | 23 |
| 36 | Optimal Operation Strategy for Biohydrogen Production. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6334-6343 | 3.9 | 22 |
| 35 | Analysis of the cyanobacterial hydrogen photoproduction process via model identification and process simulation. <i>Chemical Engineering Science</i> , 2015 , 128, 130-146 | 4.4 | 21 |
| 34 | An in situ synchrotron energy-dispersive diffraction study of the hydration of oilwell cement systems under high temperature/autoclave conditions up to 130 °C. <i>Cement and Concrete Research</i> , 2005 , 35, 2223-2232 | 10.3 | 20 |
| 33 | A comparison between calculated and experimental transport coefficients of binary gaseous mixtures N ₂ -He, Ne and Ar. <i>Molecular Physics</i> , 1987 , 62, 875-896 | 1.7 | 20 |
| 32 | 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 |
| 31 | Depth Filtration of Clay in Rock Cores Observed by One-Dimensional 1H NMR Imaging. <i>Journal of Colloid and Interface Science</i> , 1993 , 156, 253-255 | 9.3 | 19 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |

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|----|--|-----|----|
| 23 | Thermal conductivity of polyatomic gases at low density. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1983 , 79, 163 | | 14 |
| 22 | Rheology modification of montmorillonite dispersions by colloidal silica. <i>Rheologica Acta</i> , 2014 , 53, 373-384 | | 13 |
| 21 | Mixed spherical and wormlike micelles: a contrast-matching study by small-angle neutron scattering. <i>Langmuir</i> , 2004 , 20, 9978-82 | 4 | 13 |
| 20 | Demonstration of a two-stage aerobic/anaerobic chemostat for the enhanced production of hydrogen and biomass from unicellular nitrogen-fixing cyanobacterium. <i>Algal Research</i> , 2015 , 10, 189-205 | | 11 |
| 19 | Effect of the Light Regime and Phototrophic Conditions on Growth of the H ₂ -producing Green Alga <i>Chlamydomonas Reinhardtii</i> . <i>Energy Procedia</i> , 2012 , 29, 710-719 | 2.3 | 11 |
| 18 | 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 |
| 17 | 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 |
| 16 | Flow properties of freshly prepared ettringite suspensions in water at 25 degrees C. <i>Journal of Colloid and Interface Science</i> , 2006 , 294, 466-72 | 9.3 | 9 |
| 15 | Circulating pump for high-pressure and high-temperature applications. <i>Review of Scientific Instruments</i> , 2005 , 76, 105103 | 1.7 | 9 |
| 14 | La viscosité de CO ₂ entre 293 °K ET 1 500 °K. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1970 , 67, 631-632 | | 9 |
| 13 | The Road Ahead to Real-Time Oil and Gas Reservoir Management. <i>Chemical Engineering Research and Design</i> , 1998 , 76, 539-552 | 5.5 | 8 |
| 12 | Carbon Capture and Storage: concluding remarks. <i>Faraday Discussions</i> , 2016 , 192, 581-599 | 3.6 | 7 |
| 11 | Influence of Flexibility on the Properties of Chain Molecules. <i>Advances in Chemistry Series</i> , 1983 , 469-485 | | 6 |
| 10 | Extension of Vibrating-Wire Viscometry to Electrically Conducting Fluids and Measurements of Viscosity and Density of Brines with Dissolved CO ₂ at Reservoir Conditions. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 3831-3847 | 2.8 | 3 |
| 9 | Effects of chain flexibility on polymer solution dynamics. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 1803 | | 3 |
| 8 | Pressurized In Situ CO ₂ Capture from Biomass Combustion via the Calcium Looping Process in a Spout-Fluidized-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8571-8580 | 3.9 | 2 |
| 7 | Correlation of the zero-density viscosity of polyatomic gases. <i>International Journal of Thermophysics</i> , 1986 , 7, 553-562 | 2.1 | 2 |
| 6 | Phase Behaviour of Methane Hydrates in Confined Media. <i>Crystals</i> , 2021 , 11, 201 | 2.3 | 1 |

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| 5 | Correction to 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> , 2018 , 63, 2333-2334 | 2.8 | 1 |
| 4 | Hybrid Pore-Scale Adsorption Model for CO ₂ and CH ₄ Storage in Shale. <i>Energy & Fuels</i> , 2022 , 36, 3443-3456 | 4.1 | 0 |
| 3 | Phase equilibria of (CO ₂ +butylbenzene) and (CO ₂ +butylcyclohexane) at temperatures between (323.15 and 423.15)K and at pressures up to 21MPa. <i>Fluid Phase Equilibria</i> , 2015 , 387, 111-116 | 2.5 | |
| 2 | Electro-optic birefringence and scattering of concentrated solutions of ethylcellulose. <i>Angewandte Makromolekulare Chemie</i> , 1999 , 268, 1-12 | | |
| 1 | Carbon capture and storage: The way ahead. <i>Sustainable Technologies Systems & Policies</i> , 2012 , 9 | | |