

Thomas J Hughes

List of Publications by Year in descending order

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papers

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516215

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499
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#	ARTICLE	IF	CITATIONS
1	Isobaric heat capacity measurements on ternary mixtures of natural gas components methane, propane and n-heptane by differential scanning calorimetry at temperatures from 197ÅK to 422ÅK and pressures up to 32ÅMPa. Fuel, 2022, 308, 121904.	3.4	2
2	Interfacial tension measurements of methane-Åpropane binary and methane-Åpropane-Ån-heptane ternary mixtures at low temperatures. Journal of Chemical Thermodynamics, 2022, 171, 106786.	1.0	2
3	Isobaric heat capacities of a methane (1)-Åpropane (2) mixture by differential scanning calorimetry at near-critical and supercritical conditions. Fuel, 2021, 289, 119840.	3.4	7
4	Isobaric heat capacity measurements of natural gas model mixtures (methane-Åheptane) and (propane-Åheptane) by differential scanning calorimetry at temperatures from 313ÅK to 422ÅK and pressures up to 31ÅMPa. Fuel, 2021, 296, 120668.	3.4	9
5	High-Pressure Melting Temperature Measurements in Mixtures Relevant to Liquefied Natural Gas Production and Comparisons with Model Predictions. Journal of Chemical & Engineering Data, 2021, 66, 4103-4111.	1.0	2
6	High Pressure Thermal Conductivity Measurements of Ternary (Methane-ÅPropane-ÅHeptane) Mixtures with a Transient Hot-Wire Apparatus. International Journal of Thermophysics, 2021, 42, 1.	1.0	1
7	Natural gas density measurements and the impact of accuracy on process design. Fuel, 2021, 304, 121395.	3.4	7
8	High pressure viscosity measurements of ternary (methane + propane + heptane) mixtures. Fuel Processing Technology, 2021, 223, 106984.	3.7	7
9	On the application of silica gel for mitigating CO₂ leakage in CCS projects: Rheological properties and chemical stability. Journal of Petroleum Science and Engineering, 2021, 207, 109155.	2.1	9
10	High-Pressure Thermal Conductivity Measurements of a (Methane + Propane) Mixture with a Transient Hot-Wire Apparatus. Journal of Chemical & Engineering Data, 2020, 65, 906-915.	1.0	10
11	Phase equilibrium studies of high-pressure natural gas mixtures with toluene for LNG applications. Fluid Phase Equilibria, 2020, 518, 112620.	1.4	5
12	Extended calibration of a vibrating tube densimeter and new reference density data for a methane-propane mixture at temperatures from (203 to 423) K and pressures to 35ÅMPa. Journal of Molecular Liquids, 2020, 310, 113219.	2.3	3
13	Thermal conductivity data for refrigerant mixtures containing R1234yf and R1234ze(E). Journal of Chemical Thermodynamics, 2019, 133, 135-142.	1.0	19
14	Advanced predictions of solidification in cryogenic natural gas and LNG processing. Journal of Chemical Thermodynamics, 2019, 137, 22-33.	1.0	23
15	Solubility of p-xylene in methane and ethane and implications for freeze-out at LNG conditions. Experimental Thermal and Fluid Science, 2019, 105, 47-57.	1.5	15
16	Liquid and Vapor Viscosities of Binary Refrigerant Mixtures Containing R1234yf or R1234ze(E). Journal of Chemical & Engineering Data, 2019, 64, 1122-1130.	1.0	15
17	Thermodynamic properties of hydrofluoroolefin (R1234yf and R1234ze(E)) refrigerant mixtures: Density, vapour-liquid equilibrium, and heat capacity data and modelling. International Journal of Refrigeration, 2019, 98, 249-260.	1.8	58
18	Reliable prediction of aqueous dew points in CO ₂ pipelines and new approaches for control during shut-in. International Journal of Greenhouse Gas Control, 2018, 70, 97-104.	2.3	8

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19	Rapid Simulation of Solid Deposition in Cryogenic Heat Exchangers To Improve Risk Management in Liquefied Natural Gas Production. <i>Energy & Fuels</i> , 2018, 32, 255-267.	2.5	16
20	Rapid hydrocarbon dew points by infrared spectroscopy: Results and validation for binary mixtures of methane + {propane, isobutane and butane}. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 58, 304-310.	2.9	5
21	Viscosity of a $[x\text{CH}_4 + (1-x)\text{C}_3\text{H}_8]$ mixture with $x = 0.8888$ at temperatures between (203 and 424) K and pressures between (2 and 31) MPa. <i>Fuel</i> , 2018, 225, 563-572.	3.4	15
22	Determination of melting temperatures in hydrocarbon mixtures by differential scanning calorimetry. <i>Journal of Chemical Thermodynamics</i> , 2017, 108, 59-70.	1.0	17
23	Surface tension and critical point measurements of methane + propane mixtures. <i>Journal of Chemical Thermodynamics</i> , 2017, 111, 173-184.	1.0	20
24	High pressure multi-component vapor-liquid equilibrium data and model predictions for the LNG industry. <i>Journal of Chemical Thermodynamics</i> , 2017, 113, 81-90.	1.0	10
25	Memorial Issue in Honor of Kenneth N. Marsh: Preface. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2475-2480.	1.0	1
26	Effective Critical Constants for Helium for Use in Equations of State for Natural Gas Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2799-2811.	1.0	8
27	Visual Measurements of Solid-Liquid Equilibria and Induction Times for Cyclohexane + Octadecane Mixtures at Pressures to 5 MPa. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2896-2910.	1.0	12
28	Enthalpy of Vaporization Measurements of Liquid Methane, Ethane, and Methane + Ethane by Differential Scanning Calorimetry at Low Temperatures and High Pressures. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2253-2260.	1.0	6
29	Density Measurements of Methane + Propane Mixtures at Temperatures between (256 and 422) K and Pressures from (24 to 35) MPa. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2782-2790.	1.0	13
30	Extending the GERG-2008 equation of state: Improved departure function and interaction parameters for (methane + butane). <i>Journal of Chemical Thermodynamics</i> , 2016, 97, 206-213.	1.0	33
31	Vapor Pressure of Dichlorosilane, Trichlorosilane, and Tetrachlorosilane from 300 K to 420 K. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2799-2804.	1.0	3
32	Hydrate Plug Dissociation via Active Heating: Uniform Heating and a Simple Predictive Model. <i>Energy & Fuels</i> , 2016, 30, 9275-9284.	2.5	6
33	NMR Studies of the Effect of CO_2 on Oilfield Emulsion Stability. <i>Energy & Fuels</i> , 2016, 30, 5555-5562.	2.5	16
34	Reference Quality Vapor-Liquid Equilibrium Data for the Binary Systems Methane + Ethane, + Propane, + Butane, and + 2-Methylpropane, at Temperatures from (203 to 273) K and Pressures to 9 MPa. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 3606-3620.	1.0	30
35	Viscosity of $\{\text{CH}_4 + (1-x)\text{C}_3\text{H}_8\}$ with $x = 0.949$ for Temperatures between (200 and 423) K and Pressures between (10 and 31) MPa. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 118-123.	1.0	18
36	Phase equilibrium measurements of (methane + benzene) and (methane + methylbenzene) at temperatures from (188 to 348) K and pressures to 13 MPa. <i>Journal of Chemical Thermodynamics</i> , 2015, 85, 141-147.	1.0	17

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37	Viscosity of $\{x\text{CO}_2+(1-x)\text{CH}_4\}$ with $x=0.5174$ for temperatures between (229 and 348)K and pressures between (1 and 32)MPa. Journal of Chemical Thermodynamics, 2015, 87, 162-167.	1.0	17
38	Viscosity and Dew Point Measurements of $\{x\text{CH}_4+(1-x)\text{C}_2\text{H}_6\}$ at $T = 273.15, 293.15, 313.15, 333.15, 353.15, 373.15, 393.15, 413.15, 433.15, 453.15, 473.15, 493.15, 513.15, 533.15, 553.15, 573.15, 593.15, 613.15, 633.15, 653.15, 673.15, 693.15, 713.15, 733.15, 753.15, 773.15, 793.15, 813.15, 833.15, 853.15, 873.15, 893.15, 913.15, 933.15, 953.15, 973.15, 993.15$ K. Journal of Chemical & Engineering Data, 2015, 60, 3688-3695.	1.0	14
39	Simulating the capture of CO ₂ from natural gas: New data and improved models for methane + carbon dioxide + methanol. International Journal of Greenhouse Gas Control, 2014, 31, 121-127.	2.3	9
40	Improved Methods for Gas Mixture Viscometry Using a Vibrating Wire Clamped at Both Ends. Journal of Chemical & Engineering Data, 2014, 59, 1619-1628.	1.0	19
41	Isobaric Heat Capacity Measurements of Liquid Methane + Propane, Methane + Butane, and a Mixed Refrigerant by Differential Scanning Calorimetry at High Pressures and Low Temperatures. Journal of Chemical & Engineering Data, 2014, 59, 968-974.	1.0	16
42	Dispersion of supercritical CO ₂ and CH ₄ in consolidated porous media for enhanced gas recovery simulations. International Journal of Greenhouse Gas Control, 2013, 19, 234-242.	2.3	42
43	Isobaric Heat Capacity Measurements of Liquid Methane, Ethane, and Propane by Differential Scanning Calorimetry at High Pressures and Low Temperatures. Journal of Chemical & Engineering Data, 2012, 57, 3573-3580.	1.0	25
44	CO ₂ sequestration for enhanced gas recovery: New measurements of supercritical CO ₂ -CH ₄ dispersion in porous media and a review of recent research. International Journal of Greenhouse Gas Control, 2012, 9, 457-468.	2.3	84
45	Measurement and Modeling of Hydrate Composition during Formation of Clathrate Hydrate from Gas Mixtures. Industrial & Engineering Chemistry Research, 2011, 50, 694-700.	1.8	4
46	Methane Semi-Clathrate Hydrate Phase Equilibria with Tetraisopentylammonium Fluoride. Journal of Chemical & Engineering Data, 2011, 56, 4597-4603.	1.0	12
47	Heat Capacities and Low Temperature Thermal Transitions of 1-Hexyl and 1-Octyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide. Journal of Chemical & Engineering Data, 2011, 56, 2153-2159.	1.0	46