

# Eric F May

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

218  
papers

3,751  
citations

34  
h-index

46  
g-index

238  
ext. papers

4,624  
ext. citations

5.4  
avg, IF

5.83  
L-index

#	Paper	IF	Citations
218	Low-Field NMR Relaxation Analysis of High-Pressure Ethane Adsorption in Mesoporous Silicas.. <i>ChemPhysChem</i> , <b>2022</b> , e202100794	3.2	1
217	Application of Raman Spectroscopy for Sorption Analysis of Functionalized Porous Materials.. <i>Advanced Science</i> , <b>2022</b> , e2105477	13.6	2
216	Helium recovery and purification by dual reflux pressure swing adsorption. <i>Separation and Purification Technology</i> , <b>2022</b> , 288, 120603	8.3	0
215	Modelling of Liquid Hydrogen Boil-Off. <i>Energies</i> , <b>2022</b> , 15, 1149	3.1	4
214	Insights into CO <sub>2</sub> -CH <sub>4</sub> hydrate exchange in porous media using magnetic resonance. <i>Fuel</i> , <b>2022</b> , 312, 122830	7.1	1
213	Evaluating cubic equations of state for predictions of solid-fluid equilibrium in liquefied natural gas production. <i>Fuel</i> , <b>2022</b> , 314, 123033	7.1	2
212	Isobaric heat capacity measurements on ternary mixtures of natural gas components methane, propane and n-heptane by differential scanning calorimetry at temperatures from 197 K to 422 K and pressures up to 32 MPa. <i>Fuel</i> , <b>2022</b> , 308, 121904	7.1	0
211	The impact of mono-ethylene glycol and kinetic inhibitors on methane hydrate formation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131531	14.7	3
210	Pilot scale assessment of methane capture from low concentration sources to town gas specification by pressure vacuum swing adsorption (PVSA). <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 130810	14.7	3
209	Interfacial Tension Measurements of Methane + Propane Binary and Methane + Propane + n-Heptane Ternary Mixtures at Low Temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2022</b> , 106786	2.9	
208	Prediction of solid formation conditions in mixed refrigerants with iso-pentane and methane at high pressures and cryogenic temperatures. <i>Energy</i> , <b>2022</b> , 250, 123789	7.9	1
207	Minimum miscibility pressure of CO <sub>2</sub> and oil evaluated using MRI and NMR measurements. <i>Journal of Petroleum Science and Engineering</i> , <b>2022</b> , 110515	4.4	0
206	Nucleation Rates of Carbon Dioxide Hydrate. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136359	14.7	2
205	Low-Field Functional Group Resolved Nuclear Spin Relaxation in Mesoporous Silica. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54476-54485	9.5	5
204	Gas hydrate nucleation in acoustically levitated water droplets. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133494	14.7	3
203	Equation of State for Solid Benzene Valid for Temperatures up to 470 K and Pressures up to 1800 MPa. <i>Journal of Physical and Chemical Reference Data</i> , <b>2021</b> , 50, 043104	4.3	0
202	Advanced boil-off gas studies of liquefied natural gas used for the space and energy industries. <i>Acta Astronautica</i> , <b>2021</b> , 190, 444-444	2.9	2

201	Investigating hydrate formation rate and the viscosity of hydrate slurries in water-dominant flow: Flowloop experiments and modelling. <i>Fuel</i> , <b>2021</b> , 292, 120193	7.1	8
200	Measurements of boil-off gas and stratification in cryogenic liquid nitrogen with implications for the storage and transport of liquefied natural gas. <i>Energy</i> , <b>2021</b> , 222, 119853	7.9	9
199	The delay of gas hydrate formation by kinetic inhibitors. <i>Chemical Engineering Journal</i> , <b>2021</b> , 411, 128478	4.7	20
198	Advanced boil-off gas studies for liquefied natural gas. <i>Applied Thermal Engineering</i> , <b>2021</b> , 189, 116735	5.8	8
197	Experimental study of impurity freeze-out in ternary methane + ethane + benzene mixtures with applications to LNG production. <i>Journal of Natural Gas Science and Engineering</i> , <b>2021</b> , 90, 103918	4.6	5
196	Isobaric heat capacity measurements of natural gas model mixtures (methane + n-heptane) and (propane + n-heptane) by differential scanning calorimetry at temperatures from 313 K to 422 K and pressures up to 31 MPa. <i>Fuel</i> , <b>2021</b> , 296, 120668	7.1	5
195	Thermal conductivity measurements and correlations of pure R1243zf and binary mixtures of R32 + R1243zf and R32 + R1234yf. <i>International Journal of Refrigeration</i> , <b>2021</b> , 131, 990-990	3.8	2
194	Cyclodextrins as eco-friendly nucleation promoters for methane hydrate. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 127932	14.7	7
193	Minimum ignition energies and laminar burning velocities of ammonia, HFO-1234yf, HFC-32 and their mixtures with carbon dioxide, HFC-125 and HFC-134a. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124781	12.8	7
192	Avoiding costly LNG plant freeze-out-induced shutdowns: Measurement and modelling for neopentane solubility at LNG conditions. <i>Energy</i> , <b>2021</b> , 217, 119331	7.9	4
191	Isobaric heat capacities of a methane (1) + propane (2) mixture by differential scanning calorimetry at near-critical and supercritical conditions. <i>Fuel</i> , <b>2021</b> , 289, 119840	7.1	6
190	Measurements of solidification kinetics for benzene in methane at high pressures and cryogenic temperatures. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127086	14.7	7
189	The rational design of Li-doped nitrogen adsorbents for natural gas purification. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 971-981	3.6	4
188	Entropy Scaling of ViscosityIII: Application to Refrigerants and Their Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2021</b> , 66, 1385-1398	2.8	15
187	Behavior of Methane Hydrate-in-Water Slurries from Shut-in to Flow Restart. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 13086-13097	4.1	0
186	Entropy Scaling of Thermal Conductivity: Application to Refrigerants and Their Mixtures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 13052-13070	3.9	3
185	A microwave sensor for detecting impurity freeze out in liquefied natural gas production. <i>Fuel Processing Technology</i> , <b>2021</b> , 219, 106878	7.2	1
184	High Pressure Thermal Conductivity Measurements of Ternary (Methane + Propane + Heptane) Mixtures with a Transient Hot-Wire Apparatus. <i>International Journal of Thermophysics</i> , <b>2021</b> , 42, 1	2.1	1

183	Thermodynamic Properties of Liquid Toluene from Speed-of-Sound Measurements at Temperatures from 283.15 K to 473.15 K and at Pressures up to 390 MPa. <i>International Journal of Thermophysics</i> , <b>2021</b> , 42, 1	2.1	2
182	Natural gas density measurements and the impact of accuracy on process design. <i>Fuel</i> , <b>2021</b> , 304, 121395	5.1	6
181	High-resolution performance tests of nucleation and growth suppression by two kinetic hydrate inhibitors. <i>Chemical Engineering Science</i> , <b>2021</b> , 244, 116776	4.4	7
180	High pressure viscosity measurements of ternary (methane + propane + heptane) mixtures. <i>Fuel Processing Technology</i> , <b>2021</b> , 223, 106984	7.2	0
179	Flexible Adsorbents at High Pressure: Observations and Correlation of ZIF-7 Stepped Sorption Isotherms for Nitrogen, Argon, and Other Gases. <i>Langmuir</i> , <b>2020</b> , 36, 14967-14977	4	4
178	Performance Degradation of the Monoethylene Glycol Regeneration Process in the Presence of Electrolytes: Pilot-Scale Experiments and Dynamic Simulations. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 21205-21216	3.9	0
177	Influence of Mineral Composition of Chars Derived by Hydrothermal Carbonization on Sorption Behavior of CO, CH <sub>4</sub> , and O <sub>2</sub> . <i>ACS Omega</i> , <b>2020</b> , 5, 10704-10714	3.9	4
176	Managing Hydrate Formation in Subsea Production <b>2020</b> ,		2
175	Measurement and modelling of the thermodynamic properties of carbon dioxide mixtures with HFO-1234yf, HFC-125, HFC-134a, and HFC-32: vapour-liquid equilibrium, density, and heat capacity. <i>International Journal of Refrigeration</i> , <b>2020</b> , 118, 514-528	3.8	16
174	Viscosity Measurements of Binary and Multicomponent Refrigerant Mixtures Containing HFC-32, HFC-125, HFC-134a, HFO-1234yf, and CO <sub>2</sub> . <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 4252-4262	2.8	8
173	Solid-fluid equilibrium measurements of benzene in methane and implications for freeze-out at LNG conditions. <i>Fluid Phase Equilibria</i> , <b>2020</b> , 519, 112609	2.5	10
172	Characterization of Fluid-Phase Behavior Using an Advanced Microwave Re-Entrant Cavity. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 3393-3402	2.8	1
171	Low-field NMR relaxation-exchange measurements for the study of gas admission in microporous solids. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 13689-13697	3.6	6
170	High-Pressure Thermal Conductivity Measurements of a (Methane + Propane) Mixture with a Transient Hot-Wire Apparatus. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 906-915	2.8	8
169	Wide-Ranging Reference Correlations for Dilute Gas Transport Properties Based on Ab Initio Calculations and Viscosity Ratio Measurements. <i>Journal of Physical and Chemical Reference Data</i> , <b>2020</b> , 49, 013101	4.3	4
168	Gas hydrate formation probability and growth rate as a function of kinetic hydrate inhibitor (KHI) concentration. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124177	14.7	27
167	Phase equilibrium studies of high-pressure natural gas mixtures with toluene for LNG applications. <i>Fluid Phase Equilibria</i> , <b>2020</b> , 518, 112620	2.5	3
166	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 35 MPa. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 310, 113219	6	2

165	Upgrading sub-quality natural gas by dual reflux-pressure swing adsorption using activated carbon and ionic liquid zeolite. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123753	14.7	9
164	Dielectric properties of binary hydrofluoroolefin refrigerant mixtures: Comparisons of new experimental data with molecular dynamics simulations. <i>Journal of Chemical Thermodynamics</i> , <b>2020</b> , 142, 105985	2.9	1
163	Rejecting N <sub>2</sub> from natural gas by dual reflux pressure swing adsorption with activated carbon. <i>Journal of Natural Gas Science and Engineering</i> , <b>2020</b> , 81, 103457	4.6	6
162	Thermal conductivity measurements of refrigerant mixtures containing hydrofluorocarbons (HFC-32, HFC-125, HFC-134a), hydrofluoroolefins (HFO-1234yf), and carbon dioxide (CO <sub>2</sub> ). <i>Journal of Chemical Thermodynamics</i> , <b>2020</b> , 151, 106248	2.9	9
161	High-Fidelity Evaluation of Hybrid Gas Hydrate Inhibition Strategies. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 15983-15989	4.1	9
160	Solid-Phase Extraction Nuclear Magnetic Resonance (SPE-NMR): Prototype Design, Development, and Automation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 20836-20844	3.9	5
159	Miscible Fluid Displacement in Rock Cores Evaluated with NMR T <sub>2</sub> Relaxation Time Measurements. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 18280-18289	3.9	2
158	NMR-Compatible Sample Cell for Gas Hydrate Studies in Porous Media. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 12388-12398	4.1	6
157	Temperature dependence of adsorption hysteresis in flexible metal organic frameworks. <i>Communications Chemistry</i> , <b>2020</b> , 3,	6.3	8
156	Nitrogen Rejection by Dual Reflux Pressure Swing Adsorption Using Engelhard Titanosilicate Type 4. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 22573-22581	3.9	4
155	Effect of hydrate anti-agglomerants on water-in-crude oil emulsion stability. <i>Journal of Petroleum Exploration and Production</i> , <b>2020</b> , 10, 139-148	2.2	2
154	Nitrogen rejection from natural gas by dual reflux-pressure swing adsorption using activated carbon and ionic liquid zeolite. <i>Separation and Purification Technology</i> , <b>2020</b> , 235, 116215	8.3	12
153	Rheological Method To Describe Metastable Hydrate-in-Oil Slurries. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 7955-7964	4.1	7
152	Gas Diffusion and Sorption in Carbon Conversion. <i>Energy Procedia</i> , <b>2019</b> , 158, 1792-1797	2.3	4
151	Thermal conductivity data for refrigerant mixtures containing R1234yf and R1234ze(E). <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 133, 135-142	2.9	11
150	Simulation and experimental measurements of internal magnetic field gradients and NMR transverse relaxation times (T <sub>2</sub> ) in sandstone rocks. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 175, 985-997	4.4	26
149	In Situ CH <sub>4</sub> /CO <sub>2</sub> Dispersion Measurements in Rock Cores. <i>Transport in Porous Media</i> , <b>2019</b> , 129, 75-92	3.1	10
148	Viscosity of (CH <sub>4</sub> + C <sub>3</sub> H <sub>8</sub> + CO <sub>2</sub> + N <sub>2</sub> ) mixtures at temperatures between (243 and 423) K and pressures between (1 and 28) MPa: Experiment and theory. <i>Fuel</i> , <b>2019</b> , 251, 447-457	7.1	5

147	Emulsion Breakage Mechanism Using Pressurized Carbon Dioxide. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 4939-4945	4.5	2
146	Advanced predictions of solidification in cryogenic natural gas and LNG processing. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 137, 22-33	2.9	15
145	Gas hydrate formation probability distributions: Induction times, rates of nucleation and growth. <i>Fuel</i> , <b>2019</b> , 252, 448-457	7.1	35
144	Application of a Transient Deposition Model for Hydrate Management in a Subsea Gas-Condensate Tieback <b>2019</b> ,		1
143	Nitrogen rejection from methane using dual-reflux pressure swing adsorption with a kinetically-selective adsorbent. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 1038-1046	14.7	20
142	Solubility of p-xylene in methane and ethane and implications for freeze-out at LNG conditions. <i>Experimental Thermal and Fluid Science</i> , <b>2019</b> , 105, 47-57	3	11
141	Measurements of helium adsorption on natural clinoptilolite at temperatures from (123.15 to 423.15) K and pressures up to 35 MPa. <i>Separation and Purification Technology</i> , <b>2019</b> , 223, 1-9	8.3	7
140	Liquid and Vapor Viscosities of Binary Refrigerant Mixtures Containing R1234yf or R1234ze(E). <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 1122-1130	2.8	9
139	Oil-Based Binding Resins: Peculiar Water-in-Oil Emulsion Breakers. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 8448-8455	4.5	5
138	High-pressure cryogenic distillation data for improved LNG production. <i>Separation and Purification Technology</i> , <b>2019</b> , 229, 115804	8.3	6
137	Nitrogen Sorption in a Transition Metal Complex Solution for N <sub>2</sub> Rejection from Methane. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 13284-13293	3.9	1
136	EOS-LNG: A Fundamental Equation of State for the Calculation of Thermodynamic Properties of Liquefied Natural Gases. <i>Journal of Physical and Chemical Reference Data</i> , <b>2019</b> , 48, 033102	4.3	21
135	Quantitative Tortuosity Measurements of Carbonate Rocks Using Pulsed Field Gradient NMR. <i>Transport in Porous Media</i> , <b>2019</b> , 130, 847-865	3.1	12
134	Dielectric Polarization Studies in Partially Saturated Shale Cores. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 10721-10734	3.6	2
133	Hydrate nucleation and growth on water droplets acoustically-levitated in high-pressure natural gas. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 21685-21688	3.6	17
132	Capillary Trapping of CO <sub>2</sub> in Sandstone Using Low Field NMR Relaxometry. <i>Water Resources Research</i> , <b>2019</b> , 55, 10466-10478	5.4	5
131	Thermodynamic properties of hydrofluoroolefin (R1234yf and R1234ze(E)) refrigerant mixtures: Density, vapour-liquid equilibrium, and heat capacity data and modelling. <i>International Journal of Refrigeration</i> , <b>2019</b> , 98, 249-260	3.8	37
130	Densities and dielectric permittivities for (carbon monoxide + carbon dioxide) mixtures determined with a microwave re-entrant cavity resonator. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 129, 114-120	2.9	5

129	Dielectric permittivity, polarizability and dipole moment of refrigerants R1234ze(E) and R1234yf determined using a microwave re-entrant cavity resonator. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 128, 148-158	2.9	11
128	Gas Hydrate Formation Probability Distributions: The Effect of Shear and Comparisons with Nucleation Theory. <i>Langmuir</i> , <b>2018</b> , 34, 3186-3196	4	34
127	An optimal trapdoor zeolite for exclusive admission of CO at industrial carbon capture operating temperatures. <i>Chemical Communications</i> , <b>2018</b> , 54, 3134-3137	5.8	28
126	Characterising thermally controlled CH <sub>4</sub> /CO <sub>2</sub> hydrate exchange in unconsolidated sediments. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1828-1840	35.4	40
125	Reliable prediction of aqueous dew points in CO <sub>2</sub> pipelines and new approaches for control during shut-in. <i>International Journal of Greenhouse Gas Control</i> , <b>2018</b> , 70, 97-104	4.2	7
124	Rapid Simulation of Solid Deposition in Cryogenic Heat Exchangers To Improve Risk Management in Liquefied Natural Gas Production. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 255-267	4.1	13
123	Accurate High-Pressure Measurements of Carbon Monoxide's Electrical Properties. <i>ChemPhysChem</i> , <b>2018</b> , 19, 784-792	3.2	4
122	Predicting Hydrate Blockage Formation in Gas-Dominant Systems <b>2018</b> ,		5
121	Subcooling and Induction Time Measurements of Probabilistic Hydrate Formation <b>2018</b> ,		1
120	A New Rheology Model for Hydrate-in-Oil Slurries <b>2018</b> ,		2
119	Risk-Based Flow Assurance Design for Natural Gas Hydrate Production Systems <b>2018</b> ,		2
118	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> , <b>2018</b> , 58, 304-310	6.3	5
117	Modelling hydrate deposition and sloughing in gas-dominant pipelines. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 117, 81-90	2.9	27
116	Quantifying the Effect of Salinity on Oilfield Water-in-Oil Emulsion Stability. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 10042-10049	4.1	24
115	Simultaneous quantification of aliphatic and aromatic hydrocarbons in produced water analysis using mobile 1H NMR. <i>Measurement Science and Technology</i> , <b>2018</b> , 29, 085501	2	11
114	NMR Measurements of Tortuosity in Partially Saturated Porous Media. <i>Transport in Porous Media</i> , <b>2018</b> , 125, 271-288	3.1	12
113	Binary and ternary adsorption equilibria for CO <sub>2</sub> /CH <sub>4</sub> /N <sub>2</sub> mixtures on Zeolite 13X beads from 273 to 333 K and pressures to 900 kPa. <i>Adsorption</i> , <b>2018</b> , 24, 381-392	2.6	17
112	Synthesis of high quality zeolites from coal fly ash: Mobility of hazardous elements and environmental applications. <i>Journal of Cleaner Production</i> , <b>2018</b> , 202, 390-400	10.3	48

111	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> , <b>2018</b> , 225, 563-572	7.1	13
110	Simulating Hydrate Growth and Transport Behavior in Gas-Dominant Flow. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 1012-1023	4.1	23
109	Reference Values and Reference Correlations for the Thermal Conductivity and Viscosity of Fluids. <i>Journal of Physical and Chemical Reference Data</i> , <b>2018</b> , 47,	4.3	27
108	Viscosity measurements of $(\text{CH}_4 + \text{C}_3\text{H}_8 + \text{CO}_2)$ mixtures at temperatures between (203 and 420) K and pressures between (3 and 31) MPa. <i>Fuel</i> , <b>2018</b> , 231, 187-196	7.1	11
107	Determination of melting temperatures in hydrocarbon mixtures by differential scanning calorimetry. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 108, 59-70	2.9	14
106	Surface tension and critical point measurements of methane + propane mixtures. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 111, 173-184	2.9	16
105	Densities, Dielectric Permittivities, and Dew Points for (Argon + Carbon Dioxide) Mixtures Determined with a Microwave Re-entrant Cavity Resonator. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 2521-2532	2.8	12
104	Microscale Detection of Hydrate Blockage Onset in High-Pressure Gas/Water Systems. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 4875-4885	4.1	17
103	Gas Hydrate Thermodynamic Inhibition with MDEA for Reduced MEG Circulation. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 2578-2583	2.8	24
102	Characterization of Crude Oils That Naturally Resist Hydrate Plug Formation. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 5806-5816	4.1	11
101	By-line NMR emulsion droplet sizing. <i>Chemical Engineering Science</i> , <b>2017</b> , 160, 362-369	4.4	17
100	Adsorption equilibria and kinetics of $\text{CH}_4$ and $\text{N}_2$ on commercial zeolites and carbons. <i>Adsorption</i> , <b>2017</b> , 23, 131-147	2.6	24
99	High pressure multi-component vapor-liquid equilibrium data and model predictions for the LNG industry. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 113, 81-90	2.9	5
98	Temperature-regulated guest admission and release in microporous materials. <i>Nature Communications</i> , <b>2017</b> , 8, 15777	17.4	36
97	Quantitative dependence of $\text{CH}_4$ - $\text{CO}_2$ dispersion on immobile water fraction. <i>AIChE Journal</i> , <b>2017</b> , 63, 5159-5168	3.6	10
96	A robust dynamic column breakthrough technique for high-pressure measurements of adsorption equilibria and kinetics. <i>Adsorption</i> , <b>2017</b> , 23, 671-684	2.6	5
95	Reduction of Clathrate Hydrate Film Growth Rate by Naturally Occurring Surface Active Components. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 5798-5805	4.1	20
94	Demonstration and optimisation of the four Dual-Reflux Pressure Swing Adsorption configurations. <i>Separation and Purification Technology</i> , <b>2017</b> , 177, 161-175	8.3	19



93	Inclusion of connate water in enhanced gas recovery reservoir simulations. <i>Energy</i> , <b>2017</b> , 141, 757-769	7.9	13
92	Advanced non-isothermal dynamic simulations of dual reflux pressure swing adsorption cycles. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 126, 76-88	5.5	17
91	Capillary trapping quantification in sandstones using NMR relaxometry. <i>Water Resources Research</i> , <b>2017</b> , 53, 7917-7932	5.4	24
90	High pressure rheological measurements of gas hydrate-in-oil slurries. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2017</b> , 248, 40-49	2.7	34
89	Effective Critical Constants for Helium for Use in Equations of State for Natural Gas Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 2799-2811	2.8	5
88	Visual Measurements of Solid-Liquid Equilibria and Induction Times for Cyclohexane + Octadecane Mixtures at Pressures to 5 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 2896-2910	2.8	10
87	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 &amp; Engineering Data</i> , <b>2017</b> , 62, 2253-2260	2.8	3
86	Quantitative produced water analysis using mobile <sup>1</sup> H NMR. <i>Measurement Science and Technology</i> , <b>2016</b> , 27, 105501	2	16
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81	The impact of residual water on CH <sub>4</sub> -CO <sub>2</sub> dispersion in consolidated rock cores. <i>International Journal of Greenhouse Gas Control</i> , <b>2016</b> , 50, 100-111	4.2	28
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79	Non-isothermal numerical simulations of dual reflux pressure swing adsorption cycles for separating N <sub>2</sub> + CH <sub>4</sub> . <i>Chemical Engineering Journal</i> , <b>2016</b> , 292, 366-381	14.7	29
78	Rapid assessments of hydrate blockage risk in oil-continuous flowlines. <i>Journal of Natural Gas Science and Engineering</i> , <b>2016</b> , 30, 284-294	4.6	17
77	Raman Spectroscopic Studies of Clathrate Hydrate Formation in the Presence of Hydrophobized Particles. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 417-24	2.8	27
76	Shear-induced emulsion droplet diffusion studies using NMR. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 464, 229-37	9.3	12

75	Gas hydrate plug formation in partially-dispersed water/oil systems. <i>Chemical Engineering Science</i> , <b>2016</b> , 140, 337-347	4.4	55
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73	Extending the GERG-2008 equation of state: Improved departure function and interaction parameters for (methane + butane). <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 97, 206-213	2.9	26
72	Saturated phase densities of (CO <sub>2</sub> + H <sub>2</sub> O) at temperatures from (293 to 450) K and pressures up to 64 MPa. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 93, 347-359	2.9	36
71	High-fidelity reservoir simulations of enhanced gas recovery with supercritical CO <sub>2</sub> . <i>Energy</i> , <b>2016</b> , 111, 548-559	7.9	39
70	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> , <b>2015</b> , 85, 141-147	2.9	13
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68	Capture of low grade methane from nitrogen gas using dual-reflux pressure swing adsorption. <i>Chemical Engineering Journal</i> , <b>2015</b> , 281, 739-748	14.7	59
67	Hydrate Shell Growth Measured Using NMR. <i>Langmuir</i> , <b>2015</b> , 31, 8786-94	4	32
66	Viscosity of {xCO <sub>2</sub> + (1-x)CH <sub>4</sub> } with x = 0.5174 for temperatures between (229 and 348) K and pressures between (1 and 32) MPa. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 87, 162-167	2.9	15
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