Carolyn A Koh

List of Publications by Year
in descending order

178 papers	10,936 citations	30070 54 h-index	32842 100 g-index
181 all docs	181 docs citations	181 times ranked	3735 citing authors

#	Article	IF	Citations
1	Gas hydrate deposit formation in transient flowloop tests and mitigation with a surface treatment. Fuel, 2022, 311, 122532.	6.4	10
2	Gas Hydrate Research: From the Laboratory to the Pipeline. , 2022, , 3-13.		2
3	Surface morphology effects on clathrate hydrate wettability. Journal of Colloid and Interface Science, 2022, 611, 421-431.	9.4	19
4	Hydrate-Based Separation for Industrial Gas Mixtures. Energies, 2022, 15, 966.	3.1	7
5	Insight into the plugging mechanism in water-continuous hydrate slurries. Fuel, 2022, 316, 123360.	6.4	8
6	Midstream on a chip: ensuring safe carbon dioxide transportation for carbon capture and storage. Lab on A Chip, 2022, 22, 1594-1603.	6.0	3
7	Energy Transition and Climate Mitigation Require Increased Effort on Methane Hydrate Research. Energy & Fuels, 2022, 36, 2923-2926.	5.1	10
8	The kinetic effects of hydrate anti-agglomerants/surfactants. Fuel, 2022, 318, 123566.	6.4	19
9	Review of gas hydrate anti-agglomerant screening techniques. Fuel, 2022, 319, 122862.	6.4	24
10	Scale-Up and Modeling Efforts Using an Omniphobic Surface Treatment for Mitigating Solids Deposition. , 2022, , .		0
11	Early Detection and Assessment of Asphaltene Precipitation and Gas Hydrate Formation at Field Conditions. , 2022, , .		1
12	Perspective on the oil-dominated gas hydrate plugging conceptual picture as applied to transient Shut-In/Restart. Fuel, 2022, 324, 124606.	6.4	4
13	Methane storage scale-up using hydrates & metal organic framework HKUST-1 in a packed column. Fuel, 2022, 325, 124920.	6.4	10
14	Stability and Growth of Methane Hydrates in Confined Media for Carbon Sequestration. Journal of Physical Chemistry C, 2022, 126, 11800-11809.	3.1	4
15	Study of Hydrate Anti-Agglomerant Dosage Effectiveness in a High-Pressure Stirred Autoclave Equipped with Particle-Analysis Probes. SPE Journal, 2021, 26, 1200-1212.	3.1	3
16	Hydrate bedding modeling in oil-dominated systems. Fuel, 2021, 289, 119901.	6.4	3
17	Structural Effects of Gas Hydrate Antiagglomerant Molecules on Interfacial Interparticle Force Interactions. Langmuir, 2021, 37, 1651-1661.	3.5	18
18	Self-preservation phenomenon in gas hydrates and its application for energy storage. , 2021, , 267-285.		3

#	Article	IF	Citations
19	Phase behavior and kinetics properties of gas hydrates in confinement and its application. AICHE Journal, 2021, 67, e17176.	3.6	7
20	Carbon dioxide hydrate in a microfluidic device: Phase boundary and crystallization kinetics measurements with micro-Raman spectroscopy. Journal of Chemical Physics, 2021, 154, 114710.	3.0	9
21	Methane Hydrate Growth Promoted by Microporous Zeolitic Imidazolate Frameworks ZIF-8 and ZIF-67 for Enhanced Methane Storage. ACS Sustainable Chemistry and Engineering, 2021, 9, 9001-9010.	6.7	62
22	Correlating Antiagglomerant Performance with Gas Hydrate Cohesion. ACS Applied Materials & Interfaces, 2021, 13, 40002-40012.	8.0	13
23	Reducing THI Injection and Gas Hydrate Agglomeration by Under-Inhibition of Crude Oil Systems. , 2021, , .		2
24	Porous Organic Cage CC3: An Effective Promoter for Methane Hydrate Formation for Natural Gas Storage. Journal of Physical Chemistry C, 2021, 125, 20512-20521.	3.1	18
25	Vapour-liquid equilibria (VLE) and gas hydrate phase equilibria predictions using the cubic-plus association equation of state: CSMGem extension to association EoS model. Journal of Natural Gas Science and Engineering, 2021, 94, 104083.	4.4	5
26	Perspective on the role of particle size measurements in gas hydrate agglomeration predictions. Fuel, 2021, 304, 121385.	6.4	16
27	Rapid screening method for hydrate agglomeration and plugging assessment using high pressure differential scanning calorimetry. Fuel, 2021, 306, 121625.	6.4	6
28	Water Wettability Coupled with Film Growth on Realistic Cyclopentane Hydrate Surfaces. Langmuir, 2021, 37, 12447-12456.	3.5	12
29	Hydrate Agglomeration in Crude Oil Systems in Which the Asphaltene Aggregation State Is Artificially Modified. SPE Journal, 2021, 26, 1189-1199.	3.1	15
30	Synthesis and characterization of type II silicon clathrate films with low Na concentration. Applied Physics Reviews, 2021, 8, .	11.3	6
31	Thermodynamic and Kinetic Promoters for Gas Hydrate Technological Applications. Energy & Fuels, 2021, 35, 19288-19301.	5.1	46
32	Promoting Methane Hydrate Formation for Natural Gas Storage over Chabazite Zeolites. ACS Applied Energy Materials, 2021, 4, 13420-13424.	5.1	16
33	Hydrate-Bedding Mechanisms in Partially Dispersed Water/Oil Systems. SPE Journal, 2020, 25, 0925-0937.	3.1	10
34	Freezing/melting of water in the confined nanospace of carbon materials: Effect of an external stimulus. Carbon, 2020, 158, 346-355.	10.3	29
35	Influence of Wax on Cyclopentane Clathrate Hydrate Cohesive Forces and Interfacial Properties. Energy & Fuels, 2020, 34, 1482-1491.	5.1	36
36	Hydrate Growth on Methane Gas Bubbles in the Presence of Salt. Langmuir, 2020, 36, 84-95.	3.5	23

#	Article	IF	Citations
37	Effect of wax/anti-agglomerant interactions on hydrate depositing systems. Fuel, 2020, 264, 116573.	6.4	46
38	Metalâ€“Organic Framework HKUST-1 Promotes Methane Hydrate Formation for Improved Gas Storage Capacity. ACS Applied Materials & Interfaces, 2020, 12, 53510-53518.	8.0	97
39	New Insights on a Âµm-Scale into the Transformation Process of CH4 Hydrates to CO2-Rich Mixed Hydrates. Energies, 2020, 13, 5908.	3.1	9
40	The effect of surfactants on hydrate particle agglomeration in liquid hydrocarbon continuous systems: a molecular dynamics simulation study. RSC Advances, 2020, 10, 31027-31038.	3.6	21
41	Changing the Hydrate Management Guidelines: From Benchtop Experiments to CSMHyK Field Simulations. Energy & Fuels, 2020, 34, 13523-13535.	5.1	8
42	Gas Hydrate Formation & Transportability During Transient Shut-In/Restart Conditions. , 2020, , .		4
43	Quantitative Framework for Hydrate Bedding and Transient Particle Agglomeration. Industrial & Engineering Chemistry Research, 2020, 59, 12580-12589.	3.7	8
44	Predicting Hydrate Plugging Risk in Oil Dominated Systems using a Transient Hydrate Film Growth Prediction Tool. , 2020, , .		7
45	Water content of carbon dioxide at hydrate forming conditions. Fuel, 2020, 279, 118430.	6.4	9
46	Electron paramagnetic resonance study of type-II silicon clathrate with low sodium guest concentration. Physical Review B, 2020, 101, .	3.2	5
47	CH4/C2H6 gas hydrate interparticle interactions in the presence of anti-agglomerants and salinity. Fuel, 2020, 269, 117208.	6.4	30
48	Desalination using gas hydrates: The role of crystal nucleation, growth and separation. Desalination, 2019, 468, 114049.	8.2	61
49	Hydrate Agglomeration in Crude Oil Systems in Which the Asphaltene Aggregation State is Artificially Modified. , 2019, , .		4
50	Chabazite Zeolite SAPO-34 Membranes for He/CH₄ Separation. , 2019, 1, 655-659.		22
51	Cyclopentane hydrate slurry viscosity measurements coupled with visualisation. Molecular Physics, 2019, 117, 3860-3870.	1.7	12
52	Deposition Mitigation in Flowing Systems Using Coatings. , 2019, , .		6
53	Assessing Hydrate Formation in a Gas Condensate Subsea Tieback Using a Transient Hydrate Simulation Tool. , 2019, , .		1
54	Hydrate formation management simulations with anti-agglomerants and thermodynamic inhibitors in a subsea tieback. Fuel, 2019, 252, 458-468.	6.4	28

#	Article	IF	Citations
55	Machine Learning Models to Predict Gas Hydrate Plugging Risks Using Flowloop and Field Data. , 2019, , .		11
56	Application of a Transient Deposition Model for Hydrate Management in a Subsea Gas-Condensate Tieback. , 2019, , .		1
57	Structure-Property-Comparisons of Clathrasils and Gas Hydrates. Transactions of the Indian Institute of Metals, 2019, 72, 2229-2237.	1.5	2
58	Effect of Naphthenate Formation on the Anti-Adhesive Behavior of Clathrate Hydrates at a Waterâ€“Oil Interface. Industrial & Engineering Chemistry Research, 2019, 58, 5064-5070.	3.7	11
59	Hydrate-Based Desalination Using Cyclopentane Hydrates at Atmospheric Pressure. Journal of Chemical & Engineering Data, 2018, 63, 1081-1087.	1.9	59
60	Advancements in hydrate phase equilibria and modeling of gas hydrates systems. Fluid Phase Equilibria, 2018, 463, 48-61.	2.5	27
61	Modeling Hydrate Formation Management with Anti-Agglomerant Injection in a Subsea Tieback. , 2018, , .		5
62	Integrated gas hydrate-membrane system for natural gas purification. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	22
63	Predicting Hydrate Blockage Formation in Gas-Dominant Systems. , 2018, , .		6
64	Simulating Hydrate Growth and Transport Behavior in Gas-Dominant Flow. Energy & Fuels, 2018, 32, 1012-1023.	5.1	40
65	Experimental Investigation of Gas-Hydrate Formation and Particle Transportability in Fully and Partially Dispersed Multiphase-Flow Systems Using a High-Pressure Flow Loop. SPE Journal, 2018, 23, 937-951.	3.1	21
66	A Perspective on Rheological Studies of Gas Hydrate Slurry Properties. Engineering, 2018, 4, 321-329.	6.7	53
67	Direct Measurements of Contact Angles on Cyclopentane Hydrates. Energy & Fuels, 2018, 32, 6619-6626.	5.1	31
68	A transient simulation model to predict hydrate formation rate in both oil- and water-dominated systems in pipelines. Journal of Natural Gas Science and Engineering, 2018, 58, 126-134.	4.4	37
69	Hydrate formation in sediments from free gas using a one-dimensional visual simulator. Fuel, 2017, 197, 298-309.	6.4	52
70	Microscale Detection of Hydrate Blockage Onset in High-Pressure Gasâ€“Water Systems. Energy & Fuels, 2017, 31, 4875-4885.	5.1	24
71	Hydrate Formation and Transportability Investigations in a High-Pressure Flowloop During Transient Shut-in / Restart Operations. , 2017, , .		10
72	Low-Adhesion Coatings as a Novel Gas Hydrate Mitigation Strategy. , 2017, , .		18

#	Article	IF	Citations
73	Gas Hydrate Formation in High Water Content Systems Containing Anti-Agglomerat and Salt. , 2017, , .		1
74	Study of Anti-Agglomerant Low Dosage Hydrate Inhibitor Performance. , 2017, , .		8
75	A Review of Hydrate Formation for Partially Dispersed Systems in Multiphase Flow Conditions and the Detection of Hydrate Deposits. , 2017, , .		7
76	High pressure micromechanical force measurements of the effects of surface corrosion and salinity on CH₄/C₂H₆ hydrate particleâ€“surface interactions. Physical Chemistry Chemical Physics, 2017, 19, 13307-13315.	2.8	31
77	Interfacial Properties and Mechanisms Dominating Gas Hydrate Cohesion and Adhesion in Liquid and Vapor Hydrocarbon Phases. Langmuir, 2017, 33, 11299-11309.	3.5	50
78	New in Situ Measurements of the Viscosity of Gas Clathrate Hydrate Slurries Formed from Model Water-in-Oil Emulsions. Langmuir, 2017, 33, 11436-11445.	3.5	41
79	Review of vapor-liquid equilibria of gas hydrate formers and phase equilibria of hydrates. Journal of Natural Gas Science and Engineering, 2016, 35, 1388-1404.	4.4	24
80	Silicon clathrates for lithium ion batteries: A perspective. Applied Physics Reviews, 2016, 3, .	11.3	20
81	Self-preservation and structural transition of gas hydrates during dissociation below the ice point: an in situ study using Raman spectroscopy. Scientific Reports, 2016, 6, 38855.	3.3	39
82	Overview: Nucleation of clathrate hydrates. Journal of Chemical Physics, 2016, 145, 211705.	3.0	99
83	Investigating Gas Hydrate Formation in Moderate to High Water Cut Crude Oil Containing Arquad and Salt, Using Differential Scanning Calorimetry. Energy & Fuels, 2016, 30, 2555-2562.	5.1	9
84	The Study of Gas Hydrate Formation and Particle Transportability Using A High Pressure Flowloop. , 2016, , .		8
85	Mean activity coefficient of electrolytes: A critical evaluation of four physical models. Journal of Natural Gas Science and Engineering, 2016, 35, 1355-1361.	4.4	14
86	Cyclopentane hydrate cohesion measurements and phase equilibrium predictions. Journal of Natural Gas Science and Engineering, 2016, 35, 1435-1440.	4.4	20
87	Competitive Interfacial Effects of Surfactant Chemicals on Clathrate Hydrate Particle Cohesion. Energy & Fuels, 2016, 30, 8065-8071.	5.1	22
88	Interfacial phenomena in gas hydrate systems. Chemical Society Reviews, 2016, 45, 1678-1690.	38.1	189
89	Micromechanical measurements of the effect of surfactants on cyclopentane hydrate shell properties. Physical Chemistry Chemical Physics, 2016, 18, 594-600.	2.8	46
90	Rapid assessments of hydrate blockage risk in oil-continuous flowlines. Journal of Natural Gas Science and Engineering, 2016, 30, 284-294.	4.4	20

#	Article	IF	Citations
91	Inorganic and methane clathrates: Versatility of guestâ€“host compounds for energy harvesting. MRS Energy & Sustainability, 2015, 2, 1.	3.0	17
92	New Frontiers: Hydrates in Porous Media. World Scientific Series in Nanoscience and Nanotechnology, 2015, , 91-113.	0.1	3
93	Development of a Tool to Assess Hydrate-Plug-Formation Risk in Oil-Dominant Pipelines. SPE Journal, 2015, 20, 884-892.	3.1	21
94	Preface for the ACS-JCED Special Issue on Gas Hydrates in Honor of E. Dendy Sloanâ€™s 70th Birthday. Journal of Chemical & Engineering Data, 2015, 60, 213-213.	1.9	1
95	Methane Hydrates in Natureâ€”Current Knowledge and Challenges. Journal of Chemical & Engineering Data, 2015, 60, 319-329.	1.9	226
96	Direct measurements of the interactions between clathrate hydrate particles and water droplets. Physical Chemistry Chemical Physics, 2015, 17, 20021-20029.	2.8	40
97	Measurement of the water droplet size in water-in-oil emulsions using low field nuclear magnetic resonance for gas hydrate slurry applications. Canadian Journal of Chemistry, 2015, 93, 1007-1013.	1.1	14
98	Phase Equilibrium Data and Model Comparisons for H₂S Hydrates. Journal of Chemical & Engineering Data, 2015, 60, 403-408.	1.9	49
99	Equilibrium Data of Gas Hydrates containing Methane, Propane, and Hydrogen Sulfide. Journal of Chemical & Engineering Data, 2015, 60, 424-428.	1.9	30
100	Development of a high pressure micromechanical force apparatus. Review of Scientific Instruments, 2014, 85, 095120.	1.3	19
101	Observation of Interstitial Molecular Hydrogen in Clathrate Hydrates. Angewandte Chemie - International Edition, 2014, 53, 10710-10713.	13.8	14
102	Group IV clathrates: synthesis, optoelectonic properties, and photovoltaic applications. Proceedings of SPIE, 2014, , .	0.8	9
103	Investigating the Thermodynamic Stabilities of Hydrogen and Methane Binary Gas Hydrates. Journal of Physical Chemistry C, 2014, 118, 3783-3788.	3.1	45
104	Methane Hydrate Formation and Dissociation on Suspended Gas Bubbles in Water. Journal of Chemical & Engineering Data, 2014, 59, 1045-1051.	1.9	51
105	Mechanism of Cohesive Forces of Cyclopentane Hydrates with and without Thermodynamic Inhibitors. Industrial & Engineering Chemistry Research, 2014, 53, 18189-18193.	3.7	26
106	Efficient route to phase selective synthesis of type II silicon clathrates with low sodium occupancy. CrystEngComm, 2014, 16, 3940-3949.	2.6	39
107	Adhesion force interactions between cyclopentane hydrate and physically and chemically modified surfaces. Physical Chemistry Chemical Physics, 2014, 16, 25121-25128.	2.8	45
108	High Pressure Rheology of Hydrate Slurries Formed from Water-in-Mineral Oil Emulsions. Industrial & Engineering Chemistry Research, 2014, 53, 6998-7007.	3.7	98

#	Article	IF	Citations
109	Model Water-in-Oil Emulsions for Gas Hydrate Studies in Oil Continuous Systems. Energy & Fuels, 2013, 27, 4564-4573.	5.1	65
110	Measurements of Cohesion Hysteresis between Cyclopentane Hydrates in Liquid Cyclopentane. Energy & Fuels, 2013, 27, 5168-5174.	5.1	9
111	Adhesion Force between Cyclopentane Hydrate and Mineral Surfaces. Langmuir, 2013, 29, 15551-15557.	3.5	53
112	Orifice jamming of fluid-driven granular flow. Physical Review E, 2013, 87, 042204.	2.1	50
113	Experimental flowloop investigations of gas hydrate formation in high water cut systems. Chemical Engineering Science, 2013, 97, 198-209.	3.8	172
114	Surfactant Adsorption and Interfacial Tension Investigations on Cyclopentane Hydrate. Langmuir, 2013, 29, 2676-2682.	3.5	92
115	Gas Hydrate Deposition on a Cold Surface in Water-Saturated Gas Systems. Industrial & Engineering Chemistry Research, 2013, 52, 6262-6269.	3.7	94
116	Rheological Properties of Methane Hydrate Slurries Formed From AOT + Water + Oil Microemulsions. Langmuir, 2013, 29, 10997-11004.	3.5	75
117	Interfacial Tension and Mineral Adhesion Properties of Cyclopentane Hydrate. , 2013, , .		0
118	Jamming of particles in a two-dimensional fluid-driven flow. Physical Review E, 2012, 86, 061311.	2.1	46
119	Predicting Hydrate Blockages in Oil, Gas and Water-Dominated Systems. , 2012, , .		31
120	Hydrate Risk Assessment and Restart-Procedure Optimization of an Offshore Well Using a Transient Hydrate Prediction Model. Oil and Gas Facilities, 2012, 1, 49-56.	0.4	26
121	Lowering of Clathrate Hydrate Cohesive Forces by Surface Active Carboxylic Acids. Energy & Fuels, 2012, 26, 5102-5108.	5.1	50
122	High-Pressure Rheology of Hydrate Slurries Formed from Water-in-Oil Emulsions. Energy & Fuels, 2012, 26, 3504-3509.	5.1	97
123	Droplet Size Scaling of Water-in-Oil Emulsions under Turbulent Flow. Langmuir, 2012, 28, 104-110.	3.5	176
124	Overview of CSMHyK: A transient hydrate formation model. Journal of Petroleum Science and Engineering, 2012, 98-99, 122-129.	4.2	99
125	Developing a Comprehensive Understanding and Model of Hydrate in Multiphase Flow: From Laboratory Measurements to Field Applications. Energy & Fuels, 2012, 26, 4046-4052.	5.1	101
126	Micromechanical cohesion force measurements to determine cyclopentane hydrate interfacial properties. Journal of Colloid and Interface Science, 2012, 376, 283-288.	9.4	91

#	Article	IF	Citations
127	Measurements of methane hydrate equilibrium in systems inhibited with NaCl and methanol. Journal of Chemical Thermodynamics, 2012, 48, 1-6.	2.0	109
128	Interfacial mechanisms governing cyclopentane clathrate hydrate adhesion/cohesion. Physical Chemistry Chemical Physics, 2011, 13, 19796.	2.8	203
129	Fundamentals and Applications of Gas Hydrates. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 237-257.	6.8	367
130	Hydrate Plug Dissociation via Nitrogen Purge: Experiments and Modeling. Energy & Fuels, 2011, 25, 2572-2578.	5.1	27
131	Surface Chemistry and Gas Hydrates in Flow Assurance. Industrial & Engineering Chemistry Research, 2011, 50, 188-197.	3.7	164
132	The Effect of Chemistry and System Conditions on Hydrate Interparticle Adhesion Forces Toward Aggregation and Hydrate Plug Formation. , 2011, , .		4
133	Generation of Best Practices in Flow Assurance Using a Transient Hydrate Kinetics Model. , 2011, , .		8
134	Viscosity and yield stresses of ice slurries formed in water-in-oil emulsions. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 859-866.	2.4	41
135	Predicting hydrate plug formation in oil-dominated flowlines. Journal of Petroleum Science and Engineering, 2010, 72, 302-309.	4.2	68
136	Investigation of the Hydrate Plugging and Non-Plugging Properties of Oils. Journal of Dispersion Science and Technology, 2010, 31, 1100-1119.	2.4	88
137	Gas Hydrate Stability and Sampling: The Future as Related to the Phase Diagram. Energies, 2010, 3, 1991-2000.	3.1	27
138	Hydrogen Storage in tri-Methylamine Clathrates. , 2010, , .		0
139	Measurement and Calibration of Droplet Size Distributions in Water-in-Oil Emulsions by Particle Video Microscope and a Focused Beam Reflectance Method. Industrial & Engineering Chemistry Research, 2010, 49, 1412-1418.	3.7	116
140	In Situ Studies of the Mass Transfer Mechanism across a Methane Hydrate Film Using High-Resolution Confocal Raman Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 1173-1180.	3.1	137
141	Influence of Model Oil with Surfactants and Amphiphilic Polymers on Cyclopentane Hydrate Adhesion Forces. Energy & Fuels, 2010, 24, 5441-5445.	5.1	87
142	Calculation of Liquid Waterâ^'Hydrateâ^'Methane Vapor Phase Equilibria from Molecular Simulations. Journal of Physical Chemistry B, 2010, 114, 5775-5782.	2.6	118
143	Large-Cage Occupancies of Hydrogen in Binary Clathrate Hydrates Dependent on Pressures and Guest Concentrations. Journal of Physical Chemistry C, 2010, 114, 15218-15222.	3.1	68
144	Microsecond Simulations of Spontaneous Methane Hydrate Nucleation and Growth. Science, 2009, 326, 1095-1098.	12.6	644

#	Article	IF	Citations
145	Measuring hydrate/ice deposition in a flow loop from dissolved water in live liquid condensate. AICHE Journal, 2009, 55, 1882-1888.	3.6	49
146	A preliminary approach to modeling gas hydrate/ice deposition from dissolved water in a liquid condensate system. AICHE Journal, 2009, 55, 1889-1897.	3.6	26
147	Assessing the feasibility of hydrate deposition on pipeline wallsâ€"Adhesion force measurements of clathrate hydrate particles on carbon steel. Journal of Colloid and Interface Science, 2009, 331, 322-328.	9.4	99
148	Determining gas hydrate kinetic inhibitor effectiveness using emulsions. Chemical Engineering Science, 2009, 64, 180-184.	3.8	69
149	Properties of the clathrates of hydrogen and developments in their applicability for hydrogen storage. Chemical Physics Letters, 2009, 478, 97-109.	2.6	162
150	Thermodynamic predictions of various tetrahydrofuran and hydrogen clathrate hydrates. Fluid Phase Equilibria, 2009, 280, 61-67.	2.5	94
151	Micromechanical Adhesion Force Measurements between Hydrate Particles in Hydrocarbon Oils and Their Modifications. Energy & Fuels, 2009, 23, 5966-5971.	5.1	94
152	Increasing Hydrogen Storage Capacity Using Tetrahydrofuran. Journal of the American Chemical Society, 2009, 131, 14616-14617.	13.7	158
153	Hydrogen Storage in Double Clathrates with tert-Butylamine. Journal of Physical Chemistry A, 2009, 113, 6540-6543.	2.5	59
154	Gas hydrates: Unlocking the energy from icy cages. Journal of Applied Physics, 2009, 106, .	2.5	124
155	Raman Studies of Methaneâ^'Ethane Hydrate Metastability. Journal of Physical Chemistry A, 2009, 113, 1711-1716.	2.5	84
156	Clathrate Hydrates: From Laboratory Science to Engineering Practice. Industrial & Engineering Chemistry Research, 2009, 48, 7457-7465.	3.7	347
157	Toward Production From Gas Hydrates: Current Status, Assessment of Resources, and Simulation-Based Evaluation of Technology and Potential. SPE Reservoir Evaluation and Engineering, 2009, 12, 745-771.	1.8	335
158	Tetra-n-butylammonium Borohydride Semiclathrate: A Hybrid Material for Hydrogen Storage. Journal of Physical Chemistry A, 2009, 113, 6415-6418.	2.5	70
159	Predicting Hydrate-Plug Formation in a Subsea Tieback. SPE Production and Operations, 2009, 24, 573-578.	0.6	33
160	Predicting When and Where Hydrate Plugs Form in Oil-Dominated Flowlines. SPE Projects, Facilities and Construction, 2009, 4, 80-86.	0.2	46
161	Hydrate formation from high water content-crude oil emulsions. Chemical Engineering Science, 2008, 63, 4570-4579.	3.8	91
162	Effect of hydrate formation/dissociation on emulsion stability using DSC and visual techniques. Chemical Engineering Science, 2008, 63, 3942-3947.	3.8	89

#	Article	IF	Citations
163	Measuring the particle size of a known distribution using the focused beam reflectance measurement technique. Chemical Engineering Science, 2008, 63, 5410-5419.	3.8	131
164	Measurements of methane hydrate heat of dissociation using high pressure differential scanning calorimetry. Chemical Engineering Science, 2008, 63, 5848-5853.	3.8	163
165	NMR Study of Methane + Ethane Structure I Hydrate Decomposition. Journal of Physical Chemistry A, 2007, 111, 4297-4303.	2.5	29
166	Natural gas hydrates: Recent advances and challenges in energy and environmental applications. AICHE Journal, 2007, 53, 1636-1643.	3.6	199
167	Macroscopic investigation of hydrate film growth at the hydrocarbon/water interface. Chemical Engineering Science, 2007, 62, 6524-6533.	3.8	231
168	Micromechanical adhesion force measurements between tetrahydrofuran hydrate particles. Journal of Colloid and Interface Science, 2007, 306, 255-261.	9.4	126
169	Molecular Hydrogen Storage in Binary THFâ˜H2 Clathrate Hydrates. Journal of Physical Chemistry B, 2006, 110, 17121-17125.	2.6	217
170	Methane hydrate formation and decomposition: Structural studies via neutron diffraction and empirical potential structure refinement. Journal of Chemical Physics, 2006, 124, 164508.	3.0	61
171	Comment on â€œA deuteron NMR study of the tetrahydrofuran clathrate hydrate. Part II: Coupling of rotational and translational dynamics of waterâ€•by T. M. Kirschgen, M. D. Zeidler, B. Geil and F. Fujara, Phys. Chem. Chem. Phys., 2003,5, 5247. Physical Chemistry Chemical Physics, 2004, 6, 871-872.	2.8	6
172	Stable Low-Pressure Hydrogen Clusters Stored in a Binary Clathrate Hydrate. Science, 2004, 306, 469-471.	12.6	682
173	Separation of dichloromethane-nitrogen mixtures by adsorption: experimental and molecular simulation studies. Molecular Physics, 2002, 100, 2087-2095.	1.7	17
174	Towards a fundamental understanding of natural gas hydrates. Chemical Society Reviews, 2002, 31, 157-167.	38.1	540
175	Water ordering around methane during hydrate formation. Journal of Chemical Physics, 2000, 113, 6390-6397.	3.0	145
176	Catalytic oxidation for air pollution control. Environmental Science and Pollution Research, 1996, 3, 20-23.	5.3	19
177	Time-Resolved in-Situ Experiments on the Crystallization of Natural Gas Hydrates. The Journal of Physical Chemistry, 1996, 100, 6412-6414.	2.9	51
178	Introducing New Associate Editor Carolyn Koh and Research on Gas Hydrates Suitable for JCED. Journal of Chemical & Engineering Data, 0, , .	1.9	0