

Xuqiang Guo

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The formation of structure I hydrate in presence of n-octyl- β -D-glucopyranoside. <i>Fluid Phase Equilibria</i> , 2022, 556, 113373.	1.4	2
2	Directional separation of hydrogen-containing gas mixture by hydrate-membrane coupling method. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14580-14588.	3.8	8
3	Influence of typical pretreatment on cotton stalk conversion activity and bio-oil property during low temperature (180–220 °C) hydrothermal process. <i>Fuel</i> , 2022, 328, 125250.	3.4	5
4	Influence of Phosphoric Acid on the Adhesion Strength between Rusted Steel and Epoxy Coating. <i>Coatings</i> , 2021, 11, 246.	1.2	1
5	The Effect of Temperature and Sputtered Particles on the Wettability of Al/Al ₂ O ₃ . <i>Materials</i> , 2021, 14, 2110.	1.3	6
6	Experiment and model investigation of D-sorbitol as a thermodynamic hydrate inhibitor for methane and carbon dioxide hydrates. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 90, 103927.	2.1	15
7	The Thermodynamic and Kinetic Effects of Sodium Lignin Sulfonate on Ethylene Hydrate Formation. <i>Energies</i> , 2021, 14, 3291.	1.6	3
8	Effects of Surfactant and Hydrophobic Nanoparticles on the Crude Oil-Water Interfacial Tension. <i>Energies</i> , 2021, 14, 6234.	1.6	11
9	Cotton stalk-derived hydrothermal carbon for methylene blue dye removal: investigation of the raw material plant tissues. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	2.0	25
10	Advance in Hydrothermal Bio-Oil Preparation from Lignocellulose: Effect of Raw Materials and Their Tissue Structures. <i>Biomass</i> , 2021, 1, 74-93.	1.2	9
11	The effects of alkyl polyglucosides on the formation of CH ₄ hydrate and separation of CH ₄ /N ₂ via hydrates formation. <i>Separation Science and Technology</i> , 2020, 55, 81-87.	1.3	6
12	Experimental and modelling study on the effect of maltose as a green additive on methane hydrate. <i>Journal of Chemical Thermodynamics</i> , 2020, 144, 105980.	1.0	8
13	Removal of hydrocarbons and recovery of hydrogen from hydrogenation tail gas via hydrates formation using reverse thinking: Cast a small fish for a big one. <i>Chemical Engineering Research and Design</i> , 2020, 157, 126-132.	2.7	1
14	The hydrate-based gas separation of hydrogen and ethylene from fluid catalytic cracking dry gas in presence of Poly (sodium 4-styrenesulfonate). <i>Fuel</i> , 2020, 275, 117895.	3.4	12
15	Experimental visualization of cyclopentane hydrate dissociation behavior in a microfluidic chip. <i>Chemical Engineering Science</i> , 2020, 227, 115937.	1.9	13
16	Two-Stage Separation of the Tail Gases of Ammonia Synthesis to Recover H ₂ and N ₂ via Hydrate Formation. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 1715-1720.	1.0	6
17	Recycling Molybdenum from Direct Coal Liquefaction Residue: A New Approach to Enhance Recycling Efficiency. <i>Catalysts</i> , 2020, 10, 306.	1.6	7
18	Morphology Investigation on Cyclopentane Hydrate Formation/Dissociation in a Sub-Millimeter-Sized Capillary. <i>Crystals</i> , 2019, 9, 307.	1.0	4

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19	Effects of asphaltene concentration and asphaltene agglomeration on viscosity. Fuel, 2019, 255, 115825.	3.4	44
20	Determination of transient interfacial tension in a microfluidic device using a Laplace sensor. Chemical Engineering Science, 2019, 209, 115207.	1.9	12
21	Enhanced separation of coal bed methane via bioclathrates formation. Fuel, 2019, 243, 10-14.	3.4	16
22	CO ₂ -induced asphaltene deposition and wettability alteration on a pore interior surface. Fuel, 2019, 254, 115595.	3.4	19
23	Study on ethane hydrate formation/dissociation in a sub-millimeter sized capillary. Chemical Engineering Science, 2019, 206, 1-9.	1.9	14
24	Experimental and modeling investigation on separation of methane from coal seam gas (CSG) using hydrate formation. Energy, 2018, 150, 377-395.	4.5	19
25	Experimental study for the impacts of flow rate and concentration of asphaltene precipitant on dynamic asphaltene deposition in microcapillary medium. Journal of Petroleum Science and Engineering, 2018, 162, 333-340.	2.1	27
26	Solubility of CO ₂ in water and NaCl solution in equilibrium with hydrate. Part II: Model calculation. Canadian Journal of Chemical Engineering, 2018, 96, 620-624.	0.9	5
27	Interface-driven breakup of droplets in microdevices with different dispersed fluid channel shape. AIChE Journal, 2018, 64, 367-375.	1.8	3
28	Multiphase flash calculation for system containing TBAB semiclathrate: Application to semiclathrate-based post-combustion CO ₂ capture. Fluid Phase Equilibria, 2018, 476, 157-169.	1.4	2
29	Promotion effects of mung starch on methane hydrate formation equilibria/rate and gas storage capacity. Fluid Phase Equilibria, 2018, 475, 95-99.	1.4	18
30	Effect of Nanoparticles on Asphaltene Aggregation in a Microsized Pore. Industrial & Engineering Chemistry Research, 2018, 57, 9009-9017.	1.8	24
31	Experiments and simulations for continuous recovery of methane from coal seam gas (CSG) utilizing hydrate formation. Energy, 2017, 129, 28-41.	4.5	17
32	The investigation of phase equilibria and kinetics of CH ₄ hydrate in the presence of bio-additives. Fluid Phase Equilibria, 2017, 452, 143-147.	1.4	20
33	Experiments and modeling for recovery of hydrogen and ethylene from fluid catalytic cracking (FCC) dry gas utilizing hydrate formation. Fuel, 2017, 209, 473-489.	3.4	10
34	Experimental Study on Kinetics of Asphaltene Aggregation in a Microcapillary. Energy & Fuels, 2017, 31, 9006-9015.	2.5	22
35	Separation of methane-ethylene via forming semi-clathrate hydrates with TBAB. Journal of Natural Gas Science and Engineering, 2016, 34, 265-268.	2.1	14
36	Study on the transient interfacial tension in a microfluidic droplet formation coupling interphase mass transfer process. AIChE Journal, 2016, 62, 2542-2549.	1.8	20

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37	Solubility of CO ₂ in water and NaCl solution in equilibrium with hydrate. Part I: Experimental measurement. Fluid Phase Equilibria, 2016, 409, 131-135.	1.4	18
38	Experiment on the continuous recovery of H ₂ from hydrogenation plant off-gas via hydrate formation in tetra-n-butyl ammonium bromide solution. International Journal of Hydrogen Energy, 2015, 40, 16248-16255.	3.8	15
39	Experiment on the separation of tail gases of ammonia plant via continuous hydrates formation with TBAB. International Journal of Hydrogen Energy, 2015, 40, 6358-6364.	3.8	22
40	Experiments on the continuous separation of gas mixtures via dissolution and hydrate formation in the presence of THF. Fluid Phase Equilibria, 2014, 361, 250-256.	1.4	25
41	Experimental and Modeling Study on Phase Equilibria of Semiclathrate Hydrates of Tetra-n-butyl Ammonium Bromide + CH ₄ , CO ₂ , N ₂ , or Gas Mixtures. Industrial & Engineering Chemistry Research, 2013, 52, 18440-18446.	1.8	54
42	Experiment on the Separation of Air-Mixed Coal Bed Methane in THF Solution by Hydrate Formation. Energy & Fuels, 2012, 26, 4507-4513.	2.5	45
43	Recovery of Hydrogen from Coke-Oven Gas by Forming Hydrate. Industrial & Engineering Chemistry Research, 2012, 51, 6205-6211.	1.8	14
44	Experimental Study on the Separation of CH ₄ and N ₂ via Hydrate Formation in TBAB Solution. Industrial & Engineering Chemistry Research, 2011, 50, 2284-2288.	1.8	72
45	Formation conditions and thermodynamic model predictions of carbon monoxide hydrates. Fluid Phase Equilibria, 2011, 307, 95-99.	1.4	8
46	Experimental study of separation of ammonia synthesis vent gas by hydrate formation. Petroleum Science, 2009, 6, 188-193.	2.4	20