Dong-Liang Zhong

List of Publications by Year
in descending order

42	1,491	279701 23	315616 38
papers	citations	h-index	g-index

42	42	42	728
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of natural gas storage and transportation by gas hydrate formation in the presence of bio-surfactant sulfonated lignin. Energy, 2022, 244, 122665.	4.5	18
2	Reinforcement learning based optimal dynamic policy determination for natural gas hydrate reservoir exploitation. Journal of Natural Gas Science and Engineering, 2022, 101, 104523.	2.1	1
3	Insights into the self-preservation effect of methane hydrate at atmospheric pressure using high pressure DSC. Journal of Natural Gas Science and Engineering, 2021, 86, 103738.	2.1	13
4	Review on Hydrate-Based CH₄ Separation from Low-Concentration Coalbed Methane in China. Energy & Fuels, 2021, 35, 8494-8509.	2.5	29
5	New Insights into the Kinetics and Morphology of CO₂ Hydrate Formation in the Presence of Sodium Dodecyl Sulfate. Energy & Fuels, 2021, 35, 13877-13888.	2.5	29
6	A Calorimetric Study on the Phase Behavior of Tetra-n-butyl Phosphonium Bromide + CO₂ Semiclathrate Hydrate and Evaluation of CO₂ Consumptionâ”€Impact of a Surfactant. Journal of Chemical & Engineering Data, 2021, 66, 4228-4235.	1.0	9
7	AI-based composition model for energy utilization efficiency optimization of gas hydrate recovery by combined method of depressurization and thermal stimulation. Journal of Natural Gas Science and Engineering, 2021, 92, 104001.	2.1	10
8	Kinetic study of semiclathrate hydrates formed with CO2 in the presence of tetra-n-butyl ammonium bromide and tetra-n-butyl phosphonium bromide. Energy, 2020, 212, 118697.	4.5	22
9	Investigation of using graphite nanofluids to promote methane hydrate formation: Application to solidified natural gas storage. Energy, 2020, 199, 117424.	4.5	65
10	Application of tetra-n-butyl ammonium bromide semi-clathrate hydrate for CO2 capture from unconventional natural gases. Energy, 2020, 197, 117209.	4.5	39
11	Improving gas hydrate-based CH4 separation from low-concentration coalbed methane by graphene oxide nanofluids. Journal of Natural Gas Science and Engineering, 2020, 76, 103212.	2.1	20
12	Influence of water saturation and particle size on methane hydrate formation and dissociation in a fixed bed of silica sand. Energy Procedia, 2019, 158, 5402-5407.	1.8	21
13	Morphology and kinetic investigation of TBAB/TBPB semiclathrate hydrates formed with a CO2â€¯+â€¯CH4 gas mixture. Journal of Crystal Growth, 2019, 511, 79-88.	0.7	38
14	Impacts of the surfactant sulfonated lignin on hydrate based CO2 capture from a CO2/CH4 gas mixture. Energy, 2019, 171, 61-68.	4.5	44
15	Enhanced methane recovery from low-concentration coalbed methane by gas hydrate formation in graphite nanofluids. Energy, 2019, 180, 728-736.	4.5	45
16	Insights into the phase behaviour of tetra-n-butyl ammonium bromide semi-clathrates formed with CO2, (CO2â€¯+â€¯CH4) using high-pressure DSC. Journal of Chemical Thermodynamics, 2019, 137, 101-107.	1.0	15
17	Investigation on methane recovery from low-concentration coal mine gas by tetra-n-butyl ammonium chloride semiclathrate hydrate formation. Applied Energy, 2018, 227, 686-693.	5.1	46
18	Phase equilibria and dissociation enthalpies for tetra-n-butylammonium chloride semiclathrate hydrates formed with CO2, CH4, and CO2+ CH4. Journal of Chemical Thermodynamics, 2018, 117, 54-59.	1.0	37

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19	Efficient CO 2 Capture from a Simulated Shale Gas using Tetra- n -butylphosphonium Bromide Semiclathrate Hydrate. Energy Procedia, 2017, 105, 4904-4908.	1.8	6
20	Using Tetra- n -butyl Ammonium Chloride Semiclathrate Hydrate for Methane Separation from Low-concentration Coal Mine Gas. Energy Procedia, 2017, 105, 4854-4858.	1.8	6
21	Preferential enclathration of CO2 into tetra-n-butyl phosphonium bromide semiclathrate hydrate in moderate operating conditions: Application for CO2 capture from shale gas. Applied Energy, 2017, 199, 370-381.	5.1	48
22	Prediction of phase equilibrium conditions for gas hydrates formed in the presence of cyclopentane or cyclohexane. Fluid Phase Equilibria, 2016, 427, 82-89.	1.4	23
23	Phase equilibrium and kinetics of gas hydrates formed from CO2/H2 in the presence of tetrahydrofuran and cyclohexane. Journal of Natural Gas Science and Engineering, 2016, 35, 1566-1572.	2.1	23
24	Enhanced separation of carbon dioxide from a CO2Â+ CH4 gas mixture using a hybrid adsorption-hydrate formation process in the presence of coal particles. Journal of Natural Gas Science and Engineering, 2016, 35, 1472-1479.	2.1	26
25	Precombustion CO2 capture using a hybrid process of adsorption and gas hydrate formation. Energy, 2016, 102, 621-629.	4.5	48
26	Methane recovery from coal mine gas using hydrate formation in water-in-oil emulsions. Applied Energy, 2016, 162, 1619-1626.	5.1	50
27	Investigation of CO₂ Capture from a CO₂ + CH₄ Gas Mixture by Gas Hydrate Formation in the Fixed Bed of a Molecular Sieve. Industrial & Engineering Chemistry Research, 2016, 55, 7973-7980.	1.8	20
28	Enhanced Precombustion Capture of Carbon Dioxide by Gas Hydrate Formation in Water-in-Oil Emulsions. Energy & Fuels, 2015, 29, 2971-2978.	2.5	22
29	Evaluation of CO2 removal from a CO2+ CH4 gas mixture using gas hydrate formation in liquid water and THF solutions. Applied Energy, 2015, 158, 133-141.	5.1	87
30	Performance evaluation of methane separation from coal mine gas by gas hydrate formation in a stirred reactor and in a fixed bed of silica sand. Fuel, 2015, 143, 586-594.	3.4	69
31	Comparison of Methane Hydrate Formation in Stirred Reactor and Porous Media in the Presence of SDS. Energy Procedia, 2014, 61, 1573-1576.	1.8	25
32	Phase Equilibrium Data of Gas Hydrates Formed from a CO₂ + CH₄ Gas Mixture in the Presence of Tetrahydrofuran. Journal of Chemical & Engineering Data, 2014, 59, 4110-4117.	1.0	46
33	Adsorptionâ€“Hydrate Hybrid Process for Methane Separation from a CH₄/N₂/O₂ Gas Mixture Using Pulverized Coal Particles. Industrial & Engineering Chemistry Research, 2014, 53, 15738-15746.	1.8	33
34	Coal Mine Methane Gas Recovery by Hydrate Formation in a Fixed Bed of Silica Sand Particles. Energy & Fuels, 2013, 27, 4581-4588.	2.5	47
35	Recovery of CH4 from coal mine model gas mixture (CH4/N2) by hydrate crystallization in the presence of cyclopentane. Fuel, 2013, 106, 425-430.	3.4	105
36	Influence of Cyclopentane and SDS on Methane Separation from Coal Mine Gas by Hydrate Crystallization. Energy & Fuels, 2013, 27, 7252-7258.	2.5	42

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37	Phase Equilibria of Clathrate Hydrates Formed with CH₄ + N₂ + O₂ in the Presence of Cyclopentane or Cyclohexane. Journal of Chemical & Engineering Data, 2012, 57, 3751-3755.	1.0	16
38	Experimental Investigation of Methane Separation from Low-Concentration Coal Mine Gas (CH₄/N₂/O₂) by Tetra-n-butyl Ammonium Bromide Semiclathrate Hydrate Crystallization. Industrial & Engineering Chemistry Research, 2012, 51, 14806-14813.	1.8	48
39	Methane Separation from Coal Mine Methane Gas by Tetra-n-butyl Ammonium Bromide Semiclathrate Hydrate Formation. Energy & Fuels, 2012, 26, 2098-2106.	2.5	144
40	Equilibrium Conditions for Semiclathrate Hydrates Formed in the CH₄ + N₂ + O₂ + Tetra-n-butyl Ammonium Bromide Systems. Journal of Chemical & Engineering Data, 2011, 56, 2899-2903.	1.0	38
41	Experimental investigation of methane hydrate formation on suspended water droplets. Journal of Crystal Growth, 2011, 327, 237-244.	0.7	17
42	<scp>Adsorptionâ€Hydration</scp> Hybrid Process for <scp> CO ₂ </scp> Capture in a Fixed Bed of Activated Carbons. Canadian Journal of Chemical Engineering, 0, , .	0.9	1