

# Dong-Liang Zhong

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,491  
citations

279798  
23  
h-index

315739  
38  
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42  
all docs

42  
docs citations

42  
times ranked

728  
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. <i>Energy</i> , 2022, 244, 122665.	8.8	18
2	Reinforcement learning based optimal dynamic policy determination for natural gas hydrate reservoir exploitation. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 101, 104523.	4.4	1
3	Insights into the self-preservation effect of methane hydrate at atmospheric pressure using high pressure DSC. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 86, 103738.	4.4	13
4	Review on Hydrate-Based CH <sub>4</sub> Separation from Low-Concentration Coalbed Methane in China. <i>Energy &amp; Fuels</i> , 2021, 35, 8494-8509.	5.1	29
5	New Insights into the Kinetics and Morphology of CO <sub>2</sub> Hydrate Formation in the Presence of Sodium Dodecyl Sulfate. <i>Energy &amp; Fuels</i> , 2021, 35, 13877-13888.	5.1	29
6	A Calorimetric Study on the Phase Behavior of Tetra- <i>n</i> -butyl Phosphonium Bromide + CO <sub>2</sub> Semiclathrate Hydrate and Evaluation of CO <sub>2</sub> Consumptionâ€™Impact of a Surfactant. <i>Journal of Chemical &amp; Engineering Data</i> , 2021, 66, 4228-4235.	1.9	9
7	AI-based composition model for energy utilization efficiency optimization of gas hydrate recovery by combined method of depressurization and thermal stimulation. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 92, 104001.	4.4	10
8	Kinetic study of semiclathrate hydrates formed with CO <sub>2</sub> in the presence of tetra- <i>n</i> -butyl ammonium bromide and tetra- <i>n</i> -butyl phosphonium bromide. <i>Energy</i> , 2020, 212, 118697.	8.8	22
9	Investigation of using graphite nanofluids to promote methane hydrate formation: Application to solidified natural gas storage. <i>Energy</i> , 2020, 199, 117424.	8.8	65
10	Application of tetra- <i>n</i> -butyl ammonium bromide semi-clathrate hydrate for CO <sub>2</sub> capture from unconventional natural gases. <i>Energy</i> , 2020, 197, 117209.	8.8	39
11	Improving gas hydrate-based CH <sub>4</sub> separation from low-concentration coalbed methane by graphene oxide nanofluids. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103212.	4.4	20
12	Influence of water saturation and particle size on methane hydrate formation and dissociation in a fixed bed of silica sand. <i>Energy Procedia</i> , 2019, 158, 5402-5407.	1.8	21
13	Morphology and kinetic investigation of TBAB/TBPB semiclathrate hydrates formed with a CO <sub>2</sub> +CH <sub>4</sub> gas mixture. <i>Journal of Crystal Growth</i> , 2019, 511, 79-88.	1.5	38
14	Impacts of the surfactant sulfonated lignin on hydrate based CO <sub>2</sub> capture from a CO <sub>2</sub> /CH <sub>4</sub> gas mixture. <i>Energy</i> , 2019, 171, 61-68.	8.8	44
15	Enhanced methane recovery from low-concentration coalbed methane by gas hydrate formation in graphite nanofluids. <i>Energy</i> , 2019, 180, 728-736.	8.8	45
16	Insights into the phase behaviour of tetra- <i>n</i> -butyl ammonium bromide semi-clathrates formed with CO <sub>2</sub> , (CO <sub>2</sub> +CH <sub>4</sub> ) using high-pressure DSC. <i>Journal of Chemical Thermodynamics</i> , 2019, 137, 101-107.	2.0	15
17	Investigation on methane recovery from low-concentration coal mine gas by tetra- <i>n</i> -butyl ammonium chloride semiclathrate hydrate formation. <i>Applied Energy</i> , 2018, 227, 686-693.	10.1	46
18	Phase equilibria and dissociation enthalpies for tetra- <i>n</i> -butylammonium chloride semiclathrate hydrates formed with CO <sub>2</sub> , CH <sub>4</sub> , and CO <sub>2</sub> + CH <sub>4</sub> . <i>Journal of Chemical Thermodynamics</i> , 2018, 117, 54-59.	2.0	37

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19	Efficient CO <sub>2</sub> 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 CO <sub>2</sub> into tetra-n-butyl phosphonium bromide semiclathrate hydrate in moderate operating conditions: Application for CO <sub>2</sub> capture from shale gas. Applied Energy, 2017, 199, 370-381.	10.1	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.	2.5	23
23	Phase equilibrium and kinetics of gas hydrates formed from CO <sub>2</sub> /H <sub>2</sub> in the presence of tetrahydrofuran and cyclohexane. Journal of Natural Gas Science and Engineering, 2016, 35, 1566-1572.	4.4	23
24	Enhanced separation of carbon dioxide from a CO <sub>2</sub> + CH <sub>4</sub> 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.	4.4	26
25	Precombustion CO <sub>2</sub> capture using a hybrid process of adsorption and gas hydrate formation. Energy, 2016, 102, 621-629.	8.8	48
26	Methane recovery from coal mine gas using hydrate formation in water-in-oil emulsions. Applied Energy, 2016, 162, 1619-1626.	10.1	50
27	Investigation of CO <sub>2</sub> Capture from a CO <sub>2</sub> + CH <sub>4</sub> Gas Mixture by Gas Hydrate Formation in the Fixed Bed of a Molecular Sieve. Industrial & Engineering Chemistry Research, 2016, 55, 7973-7980.	3.7	20
28	Enhanced Precombustion Capture of Carbon Dioxide by Gas Hydrate Formation in Water-in-Oil Emulsions. Energy & Fuels, 2015, 29, 2971-2978.	5.1	22
29	Evaluation of CO <sub>2</sub> removal from a CO <sub>2</sub> + CH <sub>4</sub> gas mixture using gas hydrate formation in liquid water and THF solutions. Applied Energy, 2015, 158, 133-141.	10.1	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.	6.4	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 CO <sub>2</sub> + CH <sub>4</sub> Gas Mixture in the Presence of Tetrahydrofuran. Journal of Chemical & Engineering Data, 2014, 59, 4110-4117.	1.9	46
33	Adsorption-Hydrate Hybrid Process for Methane Separation from a CH <sub>4</sub> /N <sub>2</sub> /O <sub>2</sub> Gas Mixture Using Pulverized Coal Particles. Industrial & Engineering Chemistry Research, 2014, 53, 15738-15746.	3.7	33
34	Coal Mine Methane Gas Recovery by Hydrate Formation in a Fixed Bed of Silica Sand Particles. Energy & Fuels, 2013, 27, 4581-4588.	5.1	47
35	Recovery of CH <sub>4</sub> from coal mine model gas mixture (CH <sub>4</sub> /N <sub>2</sub> ) by hydrate crystallization in the presence of cyclopentane. Fuel, 2013, 106, 425-430.	6.4	105
36	Influence of Cyclopentane and SDS on Methane Separation from Coal Mine Gas by Hydrate Crystallization. Energy & Fuels, 2013, 27, 7252-7258.	5.1	42

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37	Phase Equilibria of Clathrate Hydrates Formed with CH <sub>4</sub> + N <sub>2</sub> + O <sub>2</sub> in the Presence of Cyclopentane or Cyclohexane. Journal of Chemical & Engineering Data, 2012, 57, 3751-3755.	1.9	16
38	Experimental Investigation of Methane Separation from Low-Concentration Coal Mine Gas (CH <sub>4</sub> /N <sub>2</sub> /O <sub>2</sub> ) by Tetra-n-butyl Ammonium Bromide Semiclathrate Hydrate Crystallization. Industrial & Engineering Chemistry Research, 2012, 51, 14806-14813.	3.7	48
39	Methane Separation from Coal Mine Methane Gas by Tetra-n-butyl Ammonium Bromide Semiclathrate Hydrate Formation. Energy & Fuels, 2012, 26, 2098-2106.	5.1	144
40	Equilibrium Conditions for Semiclathrate Hydrates Formed in the CH <sub>4</sub> + N <sub>2</sub> + O <sub>2</sub> + Tetra-n-butyl Ammonium Bromide Systems. Journal of Chemical & Engineering Data, 2011, 56, 2899-2903.	1.9	38
41	Experimental investigation of methane hydrate formation on suspended water droplets. Journal of Crystal Growth, 2011, 327, 237-244.	1.5	17
42	Adsorption-Hydration Hybrid Process for CO <sub>2</sub> Capture in a Fixed Bed of Activated Carbons. Canadian Journal of Chemical Engineering, 0, , .	1.7	1