

Hongsheng Dong

List of Publications by Year in descending order

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45
papers

1,513
citations

331259

21
h-index

315357

38
g-index

45
all docs

45
docs citations

45
times ranked

678
citing authors

#	ARTICLE	IF	CITATIONS
1	One-step synthesis of graphene-based composite phase change materials with high solar-thermal conversion efficiency. <i>Chemical Engineering Journal</i> , 2022, 429, 132439.	6.6	50
2	Effects of depressurization on gas production and water performance from excess-gas and excess-water methane hydrate accumulations. <i>Chemical Engineering Journal</i> , 2022, 431, 133223.	6.6	23
3	Association between multiphase seepage and exploitation of natural gas hydrate based on the Shenhu area of South China Sea. <i>Journal of Petroleum Science and Engineering</i> , 2022, 209, 109855.	2.1	9
4	Synthesis and application of magnetically recyclable nanoparticles as hydrate inhibitors. <i>Chemical Engineering Journal</i> , 2022, 431, 133966.	6.6	14
5	Evolution process and stabilization mechanism of different gas nanobubbles based on improved statistical analysis. <i>Nano Select</i> , 2022, 3, 1091-1101.	1.9	3
6	Magnetically Recyclable SO_3^{2-} -Coated Nanoparticles Promote Gas Storage via Forming Hydrates. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33141-33150.	4.0	7
7	Rapid nucleation and growth of tetrafluoroethane hydrate in the cyclic process of boiling-condensation. <i>Energy</i> , 2022, 256, 124647.	4.5	4
8	Enhancing the gas production efficiency of depressurization-induced methane hydrate exploitation via fracturing. <i>Fuel</i> , 2021, 288, 119740.	3.4	40
9	The design of phase change materials with carbon aerogel composites for multi-responsive thermal energy capture and storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1213-1220.	5.2	84
10	Capillary pressure in the anisotropy of sediments with hydrate formation. <i>Fuel</i> , 2021, 289, 119938.	3.4	13
11	Enhanced Gas Production from Hydrate Reservoirs with Underlying Water Layer. <i>Energy & Fuels</i> , 2021, 35, 1347-1357.	2.5	12
12	Analytical Investigation of Gas and Water Production from Aqueous-Rich Hydrate-Bearing Sediments by Depressurization. <i>Energy & Fuels</i> , 2021, 35, 1414-1421.	2.5	8
13	Molecular dynamics simulation and in-situ MRI observation of organic exclusion during CO ₂ hydrate growth. <i>Chemical Physics Letters</i> , 2021, 764, 138287.	1.2	16
14	Behaviors of CO ₂ Hydrate Formation in the Presence of Acid-Dissolvable Organic Matters. <i>Environmental Science & Technology</i> , 2021, 55, 6206-6213.	4.6	70
15	Enhancing Gas Production from Hydrate-Bearing Reservoirs through Depressurization-Based Approaches: Knowledge from Laboratory Experiments. <i>Energy & Fuels</i> , 2021, 35, 6344-6358.	2.5	13
16	Potential applications based on the formation and dissociation of gas hydrates. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 143, 110928.	8.2	53
17	MXene (Ti ₃ C ₂ T _x) as a Promising Substrate for Methane Storage via Enhanced Gas Hydrate Formation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6622-6627.	2.1	14
18	Fenton-like reaction driving the degradation and uptake of multi-walled carbon nanotubes mediated by bacterium. <i>Chemosphere</i> , 2021, 275, 129888.	4.2	5

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19	Self-Organized Colloids Thermodynamically Weaken the Effect of Salt on Methane Hydrate Formation. ACS Sustainable Chemistry and Engineering, 2021, 9, 11323-11330.	3.2	9
20	Numerical analysis of the gas recovery performance in hydrate reservoirs with various parameters by stepwise depressurization. Journal of Petroleum Science and Engineering, 2021, 203, 108670.	2.1	11
21	Experimental investigation on blockage predictions in gas pipelines using the pressure pulse wave method. Energy, 2021, 230, 120897.	4.5	10
22	Flexible graphene aerogel-based phase change film for solar-thermal energy conversion and storage in personal thermal management applications. Chemical Engineering Journal, 2021, 419, 129637.	6.6	109
23	Two-dimensional materials and their derivatives for high performance phase change materials: emerging trends and challenges. Energy Storage Materials, 2021, 42, 845-870.	9.5	47
24	Behaviors of CH ₄ hydrate formation in cold seeps with underlying gas plume. Fuel, 2021, 304, 121364.	3.4	6
25	Pressure oscillation controlled CH ₄ /CO ₂ replacement in methane hydrates: CH ₄ recovery, CO ₂ storage, and their characteristics. Chemical Engineering Journal, 2021, 425, 129709.	6.6	39
26	A combined hydrate-based method for removing heavy metals from simulated wastewater with high concentrations. Journal of Environmental Chemical Engineering, 2021, 9, 106633.	3.3	11
27	Desalination and Li ⁺ enrichment via formation of cyclopentane hydrate. Separation and Purification Technology, 2020, 231, 115921.	3.9	29
28	In-situ observation for natural gas hydrate in porous medium: Water performance and formation characteristic. Magnetic Resonance Imaging, 2020, 65, 166-174.	1.0	23
29	Effect of a weak electric field on THF hydrate formation: Induction time and morphology. Journal of Petroleum Science and Engineering, 2020, 194, 107486.	2.1	24
30	Numerical analysis of microwave stimulation for enhancing energy recovery from depressurized methane hydrate sediments. Applied Energy, 2020, 262, 114559.	5.1	43
31	Ionogels at the Water-Energy Nexus for Desalination Powered by Ultralow-Grade Heat. Environmental Science & Technology, 2020, 54, 3591-3598.	4.6	21
32	Hydrothermal stability of water sorption ionogels. Energy, 2019, 189, 116186.	4.5	13
33	Analyzing spatially and temporally visualized formation behavior of methane hydrate in unconsolidated porous media. Magnetic Resonance Imaging, 2019, 61, 224-230.	1.0	23
34	The Controlling Factors and Ion Exclusion Mechanism of Hydrate-Based Pollutant Removal. ACS Sustainable Chemistry and Engineering, 2019, 7, 7932-7940.	3.2	68
35	Evaluation of thermal stimulation on gas production from depressurized methane hydrate deposits. Applied Energy, 2018, 227, 710-718.	5.1	83
36	Promotion effect of graphite on cyclopentane hydrate based desalination. Desalination, 2018, 445, 197-203.	4.0	36

#	ARTICLE	IF	CITATIONS
37	Effect of Gas Hydrate Cementation Mode on Acoustic and Electrical Properties of Natural Gas Hydrate Reservoirs Based On. , 2018, , .		0
38	Pore-scale Displacement Mechanisms Investigation in CO ₂ -brine-glass Beads System. Energy Procedia, 2017, 105, 4122-4127.	1.8	2
39	Hydrate-based Reduction of Heavy Metal ion from Aqueous Solution. Energy Procedia, 2017, 105, 4706-4712.	1.8	14
40	Enhanced CH ₄ recovery and CO ₂ storage via thermal stimulation in the CH ₄ /CO ₂ replacement of methane hydrate. Chemical Engineering Journal, 2017, 308, 40-49.	6.6	207
41	Gas Production from Methane Hydrate Deposits Induced by Depressurization in Conjunction with Thermal Stimulation. Energy Procedia, 2017, 105, 4713-4717.	1.8	14
42	Magnetic resonance imaging for in-situ observation of the effect of depressurizing range and rate on methane hydrate dissociation. Chemical Engineering Science, 2016, 144, 135-143.	1.9	59
43	Influence of reservoir permeability on methane hydrate dissociation by depressurization. International Journal of Heat and Mass Transfer, 2016, 103, 265-276.	2.5	73
44	Hydrate-based heavy metal separation from aqueous solution. Scientific Reports, 2016, 6, 21389.	1.6	42
45	Simulation of microwave stimulation for the production of gas from methane hydrate sediment. Applied Energy, 2016, 168, 25-37.	5.1	59