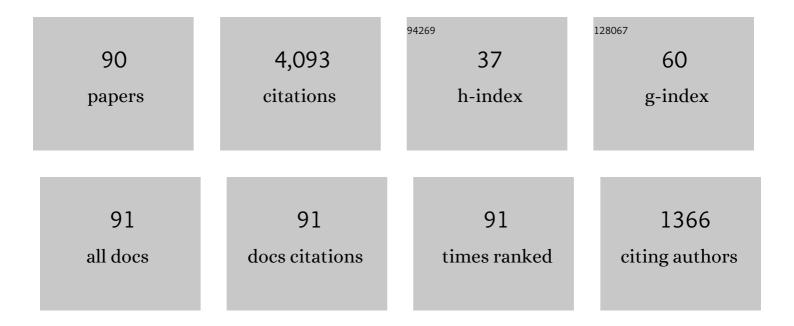
Jia-nan Zheng

List of Publications by Year in descending order

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ΙΙΛ-ΝΑΝ ΖΗΕΝΟ

#	Article	IF	CITATIONS
1	Evaluation of gas production from methane hydrates using depressurization, thermal stimulation and combined methods. Applied Energy, 2015, 145, 265-277.	5.1	328
2	The status of natural gas hydrate research in China: A review. Renewable and Sustainable Energy Reviews, 2014, 31, 778-791.	8.2	235
3	Methane hydrate formation in excess water simulating marine locations and the impact of thermal stimulation on energy recovery. Applied Energy, 2016, 177, 409-421.	5.1	168
4	Analysis of heat transfer effects on gas production from methane hydrate by depressurization. International Journal of Heat and Mass Transfer, 2014, 77, 529-541.	2.5	143
5	Hydrate-based technology for CO2 capture from fossil fuel power plants. Applied Energy, 2014, 116, 26-40.	5.1	118
6	Hydrate reformation characteristics in natural gas hydrate dissociation process: A review. Applied Energy, 2019, 256, 113878.	5.1	115
7	Size Effect of Porous Media on Methane Hydrate Formation and Dissociation in an Excess Gas Environment. Industrial & Engineering Chemistry Research, 2016, 55, 7981-7991.	1.8	108
8	Effect of NaCl on methane hydrate formation and dissociation in porous media. Journal of Natural Gas Science and Engineering, 2015, 27, 178-189.	2.1	104
9	Effect of depressurization pressure on methane recovery from hydrate–gas–water bearing sediments. Fuel, 2016, 166, 419-426.	3.4	93
10	Experimental study on the effect of methane hydrate decomposition on gas phase permeability of clayey sediments. Applied Energy, 2018, 230, 1304-1310.	5.1	86
11	Economic evaluation of energy efficient hydrate based desalination utilizing cold energy from liquefied natural gas (LNG). Desalination, 2019, 463, 69-80.	4.0	86
12	Gas recovery from depressurized methane hydrate deposits with different water saturations. Applied Energy, 2017, 187, 180-188.	5.1	85
13	Effects of cyclopentane on CO 2 hydrate formation and dissociation as a co-guest molecule for desalination. Journal of Chemical Thermodynamics, 2017, 104, 9-15.	1.0	80
14	Effect of methane hydrate dissociation and reformation on the permeability of clayey sediments. Applied Energy, 2020, 261, 114479.	5.1	68
15	Investigation of the induction time for THF hydrate formation in porous media. Journal of Natural Gas Science and Engineering, 2015, 24, 357-364.	2.1	67
16	Dissociation characteristics of methane hydrates in South China Sea sediments by depressurization. Applied Energy, 2019, 243, 266-273.	5.1	67
17	Effects of operating mode and pressure on hydrate-based desalination and CO 2 capture in porous media. Applied Energy, 2014, 135, 504-511.	5.1	66
18	Methane hydrate reformation in porous media with methane migration. Chemical Engineering Science, 2017, 168, 344-351.	1.9	66

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19	Visualization study on the promotion of natural gas hydrate production by water flow erosion. Fuel, 2019, 235, 63-71.	3.4	65
20	Production characteristics of two class water-excess methane hydrate deposits during depressurization. Fuel, 2018, 232, 99-107.	3.4	60
21	Effects of additives on continuous hydrate-based flue gas separation. Applied Energy, 2018, 221, 374-385.	5.1	57
22	Effects of C3H8 on hydrate formation and dissociation for integrated CO2 capture and desalination technology. Energy, 2015, 93, 1971-1979.	4.5	56
23	Effects of pressure and sea water flow on natural gas hydrate production characteristics in marine sediment. Applied Energy, 2019, 238, 274-283.	5.1	55
24	Experimental investigation on novel desalination system via gas hydrate. Desalination, 2020, 478, 114284.	4.0	55
25	Progress and trends in hydrate based desalination (HBD) technology: A review. Chinese Journal of Chemical Engineering, 2019, 27, 2037-2043.	1.7	54
26	Dependence of the hydrate-based CO2 storage process on the hydrate reservoir environment in high-efficiency storage methods. Chemical Engineering Journal, 2021, 415, 128937.	6.6	54
27	MRI measurements of CO2–CH4 hydrate formation and dissociation in porous media. Fuel, 2015, 140, 126-135.	3.4	53
28	Advances in nuclear magnetic resonance (NMR) techniques for the investigation of clathrate hydrates. Renewable and Sustainable Energy Reviews, 2017, 74, 1346-1360.	8.2	52
29	The seepage characteristics of methane hydrate-bearing clayey sediments under various pressure gradients. Energy, 2020, 191, 116507.	4.5	52
30	Post-combustion CO2 capture and separation in flue gas based on hydrate technology:A review. Renewable and Sustainable Energy Reviews, 2022, 154, 111806.	8.2	52
31	Influence of Pore Size, Salinity and Gas Composition upon the Hydrate Formation Conditions. Chinese Journal of Chemical Engineering, 2010, 18, 292-296.	1.7	50
32	Hydrate slurry flow characteristics influenced by formation, agglomeration and deposition in a fully visual flow loop. Fuel, 2020, 277, 118066.	3.4	48
33	Investigation on the induction time of methane hydrate formation in porous media under quiescent conditions. Journal of Petroleum Science and Engineering, 2016, 145, 565-572.	2.1	46
34	New insights on water-gas flow and hydrate decomposition behaviors in natural gas hydrates deposits with various saturations. Applied Energy, 2020, 259, 114185.	5.1	46
35	Measurement of water phase permeability in the methane hydrate dissociation process using a new method. International Journal of Heat and Mass Transfer, 2018, 118, 1316-1324.	2.5	45
36	Characteristics of CO2 Hydrate Formation and Dissociation in Glass Beads and Silica Gel. Energies, 2012, 5, 925-937.	1.6	43

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37	Experimental investigation of natural gas hydrate production characteristics via novel combination modes of depressurization with water flow erosion. Fuel, 2019, 252, 295-303.	3.4	41
38	Analysis of the Physical Properties of Hydrate Sediments Recovered from the Pearl River Mouth Basin in the South China Sea: Preliminary Investigation for Gas Hydrate Exploitation. Energies, 2017, 10, 531.	1.6	37
39	Methane hydrate formation/reformation in three experimental modes: A preliminary investigation of blockage prevention during exploitation. Journal of Natural Gas Science and Engineering, 2015, 27, 1814-1820.	2.1	33
40	Quantitative analysis of methane hydrate formation in size-varied porous media for gas storage and transportation application. Fuel, 2021, 301, 121021.	3.4	33
41	Evaluation of Gas Production from Methane Hydrate Sediments with Heat Transfer from Over-Underburden Layers. Energy & Fuels, 2015, 29, 1028-1039.	2.5	32
42	CO ₂ Hydrate Formation Characteristics in a Water/Brine-Saturated Silica Gel. Industrial & Engineering Chemistry Research, 2014, 53, 10753-10761.	1.8	31
43	Experimental observation of methane hydrate dissociation via different depressurization modes under water phase flow. Fuel, 2021, 283, 118908.	3.4	30
44	Permeability estimation of porous media by using an improved capillary bundle model based on micro-CT derived pore geometries. Heat and Mass Transfer, 2017, 53, 49-58.	1.2	29
45	Dynamic measurements of methane hydrate formation/dissociation in different gas flow direction. Applied Energy, 2018, 227, 703-709.	5.1	29
46	Effects of water-gas two-phase flow on methane hydrate dissociation in porous media. Fuel, 2019, 255, 115637.	3.4	29
47	Experimental investigation on the decomposition characteristics of natural gas hydrates in South China Sea sediments by a micro-differential scanning calorimeter. Applied Energy, 2019, 254, 113653.	5.1	29
48	NMR quantitative investigation on methane hydrate formation characteristics under different driving forces. Fuel, 2020, 261, 116364.	3.4	28
49	Ice behaviors and heat transfer characteristics during the isothermal production process of methane hydrate reservoirs by depressurization. Energy, 2021, 232, 121030.	4.5	28
50	Quantitative analysis of CO ₂ hydrate formation in porous media by proton NMR. AICHE Journal, 2020, 66, e16820.	1.8	27
51	Dissociation characteristics of methane hydrate using depressurization combined with thermal stimulation. Chinese Journal of Chemical Engineering, 2019, 27, 2089-2098.	1.7	26
52	Gas permeability characteristics of marine sediments with and without methane hydrates in a core holder. Journal of Natural Gas Science and Engineering, 2020, 76, 103215.	2.1	26
53	Behaviour of hydrate-based technology for H2/CO2 separation in glass beads. Separation and Purification Technology, 2015, 141, 170-178.	3.9	24
54	Effects of underlying gas on formation and gas production of methane hydrate in muddy low-permeability cores. Fuel, 2022, 309, 122128.	3.4	24

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55	Gas production enhancement effect of underlying gas on methane hydrates in marine sediments by depressurization. Fuel, 2022, 310, 122415.	3.4	24
56	CO2/N2 mixture sequestration in depleted natural gas hydrate reservoirs. Journal of Petroleum Science and Engineering, 2019, 175, 72-82.	2.1	23
57	Equilibrium conditions for CO2 hydrate in porous medium. Journal of Chemical Thermodynamics, 2011, 43, 334-338.	1.0	22
58	Experimental investigation into the dissociation of methane hydrate near ice-freezing point induced by depressurization and the concomitant metastable phases. Journal of Natural Gas Science and Engineering, 2019, 65, 125-134.	2.1	22
59	Effect of multiphase flow on natural gas hydrate production in marine sediment. Journal of Natural Gas Science and Engineering, 2020, 73, 103066.	2.1	22
60	The enhancement effect of water-gas two-phase flow on depressurization process: Important for gas hydrate production. Applied Energy, 2020, 276, 115559.	5.1	22
61	CO ₂ sequestration in depleted methane hydrate deposits with excess water. International Journal of Energy Research, 2018, 42, 2536-2547.	2.2	21
62	Gas production from different classes of methane hydrate deposits by the depressurization method. International Journal of Energy Research, 2019, 43, 5493-5505.	2.2	21
63	An improved model for predicting hydrate phase equilibrium in marine sediment environment. Journal of Natural Gas Chemistry, 2010, 19, 241-245.	1.8	20
64	The synthetic effect of traditional-thermodynamic-factors (temperature, salinity, pressure) and fluid flow on natural gas hydrate recovery behaviors. Energy, 2021, 233, 121147.	4.5	18
65	Hydrate phase equilibrium measurements for (THF+SDS+CO2+N2) aqueous solution systems in porous media. Fluid Phase Equilibria, 2014, 370, 12-18.	1.4	17
66	MRI observation of CO2-C3H8 hydrate-induced water migration in glass sand. Chemical Engineering Science, 2019, 207, 1096-1106.	1.9	17
67	Formation and production characteristics of methane hydrates from marine sediments in a core holder. Applied Energy, 2020, 275, 115393.	5.1	17
68	Molecular dynamics simulation of the effects of different thermodynamic parameters on methane hydrate dissociation: An analysis of temperature, pressure and gas concentrations. Fluid Phase Equilibria, 2020, 516, 112606.	1.4	17
69	Thermodynamics analysis and temperature response mechanism during methane hydrate production by depressurization. Energy, 2022, 241, 122902.	4.5	17
70	Utilization of water-gas flow on natural gas hydrate recovery with different depressurization modes. Fuel, 2021, 288, 119583.	3.4	16
71	Experimental analysis on thermodynamic stability and methane leakage during solid fluidization process of methane hydrate. Fuel, 2021, 284, 119020.	3.4	16
72	Production Behaviors of Water-Saturated Methane Hydrate Deposits during the Depressurization with/without Thermal Water Compensation Process. Energy & Fuels, 2021, 35, 1638-1647.	2.5	16

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73	Application of Xâ€Ray Computed Tomography Technology in Gas Hydrate. Energy Technology, 2019, 7, 1800699.	1.8	15
74	Phase Equilibrium Data of CO ₂ –MCP Hydrates and CO ₂ Gas Uptake Comparisons with CO ₂ –CP Hydrates and CO ₂ –C ₃ H ₈ Hydrates. Journal of Chemical & Engineering Data, 2019, 64, 372-379.	1.0	15
75	Kinetics and spatial distribution of tetrahydrofuran/methane hydrate formation in an unstirred reactor: Application in natural gas storage. Fuel, 2021, 300, 121011.	3.4	14
76	Dynamic permeability and gas production characteristics of methane hydrate-bearing marine muddy cores: Experimental and modeling study. Fuel, 2021, 306, 121630.	3.4	14
77	Thermodynamics analysis and ice behavior during the depressurization process of methane hydrate reservoir. Energy, 2022, 250, 123801.	4.5	14
78	Characterizing the Dissolution Rate of CO2-Brine in Porous Media under Gaseous and Supercritical Conditions. Applied Sciences (Switzerland), 2018, 8, 4.	1.3	13
79	Effects of Halogen Ions on Phase Equilibrium of Methane Hydrate in Porous Media. International Journal of Thermophysics, 2012, 33, 821-830.	1.0	12
80	Behaviors of NaCl Ions Intruding into Methane Hydrate under a Static Electric Field. Journal of Physical Chemistry C, 2021, 125, 18483-18493.	1.5	11
81	High resolution MRI studies of CO2 hydrate formation and dissociation near the gas-water interface. Chemical Engineering Journal, 2021, 425, 131426.	6.6	11
82	Research on the CO 2 Gas Uptake of Different Hydrate Structures with Cyclopentane or Methyl-cyclopentane as Co-guest Molecules. Energy Procedia, 2017, 105, 4133-4139.	1.8	9
83	Effects of temperature holding on methane hydrate decomposition process by thermal stimulation. Journal of Chemical Thermodynamics, 2021, 159, 106487.	1.0	9
84	Production Characteristics of Natural Gas Hydrate in Muddy Marine Sediments of Different Moistures by Depressurization. Energy & Fuels, 2022, 36, 1522-1530.	2.5	9
85	Effects of Multiple Factors on Methane Hydrate Reformation in a Porous Medium. ChemistrySelect, 2017, 2, 6030-6035.	0.7	8
86	In-situ investigation on methane hydrate decomposition characteristics under variational seawater flow process. Fuel, 2022, 310, 122123.	3.4	7
87	Effects of Particle Sizes on Growth Characteristics of Propane Hydrate in Uniform/Nonuniform Sands for Desalination Application. Energy & amp; Fuels, 2022, 36, 1003-1014.	2.5	7
88	MRI investigation of water–oil two phase flow in straight capillary, bifurcate channel and monolayered glass bead pack. Magnetic Resonance Imaging, 2015, 33, 918-926.	1.0	5
89	Visualization study on the promotion of depressurization and water flow erosion for gas hydrate production. Energy Procedia, 2019, 158, 5563-5568.	1.8	5
90	Effect of Methane Solubility on Hydrate Formation and Dissociation: Review and Perspectives. Energy & Fuels, 2022, 36, 7269-7283.	2.5	5