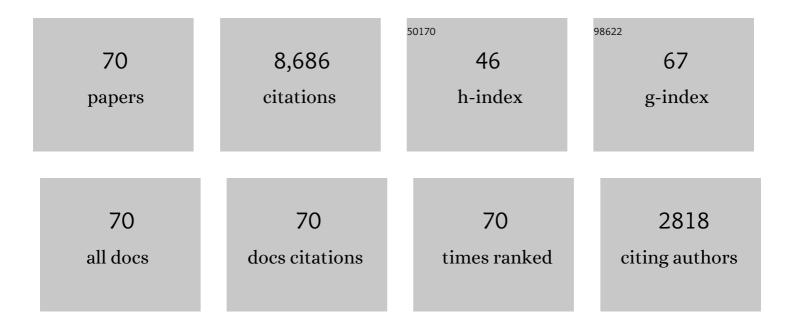
Zhenyuan Yin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Review of natural gas hydrates as an energy resource: Prospects and challenges. Applied Energy, 2016, 162, 1633-1652.	5.1	1,328
2	A review of the hydrate based gas separation (HBGS) process forÂcarbon dioxide pre-combustion capture. Energy, 2015, 85, 261-279.	4.5	481
3	The clathrate hydrate process for post and pre-combustion capture of carbon dioxide. Journal of Hazardous Materials, 2007, 149, 625-629.	6.5	467
4	Hydrogen storage in clathrate hydrates: Current state of the art and future directions. Applied Energy, 2014, 122, 112-132.	5.1	337
5	Gas hydrate formation from hydrogen/carbon dioxide and nitrogen/carbon dioxide gas mixtures. Chemical Engineering Science, 2007, 62, 4268-4276.	1.9	329

6 Seawater desalination by gas hydrate process and removal characteristics of dissolved ions (Na+, K+,) Tj ETQq0 0 0 gBT /Overlock 10 Tf

7	Enhanced rate of gas hydrate formation in a fixed bed column filled with sand compared to a stirred vessel. Chemical Engineering Science, 2012, 68, 617-623.	1.9	292
8	Rapid methane hydrate formation to develop a cost effective large scale energy storage system. Chemical Engineering Journal, 2016, 290, 161-173.	6.6	261
9	LNG cold energy utilization: Prospects and challenges. Energy, 2019, 170, 557-568.	4.5	236
10	Review of gas hydrate dissociation kinetic models for energy recovery. Journal of Natural Gas Science and Engineering, 2016, 35, 1362-1387.	2.1	231
11	A Review of Clathrate Hydrate Nucleation. ACS Sustainable Chemistry and Engineering, 2017, 5, 11176-11203.	3.2	224
12	Gas Hydrate Formation in a Variable Volume Bed of Silica Sand Particles. Energy & Fuels, 2009, 23, 5496-5507.	2.5	218
13	Influence of contact medium and surfactants on carbon dioxide clathrate hydrate kinetics. Fuel, 2013, 105, 664-671.	3.4	214
14	A review of gas hydrate growth kinetic models. Chemical Engineering Journal, 2018, 342, 9-29.	6.6	211
15	Methane hydrates: A future clean energy resource. Chinese Journal of Chemical Engineering, 2019, 27, 2026-2036.	1.7	188
16	An innovative approach to enhance methane hydrate formation kinetics with leucine for energy storage application. Applied Energy, 2017, 188, 190-199.	5.1	180
17	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
18	Morphology of Methane Hydrate Formation in Porous Media. Energy & Fuels, 2013, 27, 3364-3372.	2.5	145

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#	Article	IF	CITATIONS
19	Morphology Study of Methane Hydrate Formation and Dissociation in the Presence of Amino Acid. Crystal Growth and Design, 2016, 16, 5932-5945.	1.4	143
20	Effect of Biofriendly Amino Acids on the Kinetics of Methane Hydrate Formation and Dissociation. Industrial & Engineering Chemistry Research, 2017, 56, 6145-6154.	1.8	142
21	Experimental investigations on energy recovery from water-saturated hydrate bearing sediments via depressurization approach. Applied Energy, 2017, 204, 1513-1525.	5.1	135
22	HBGS (hydrate based gas separation) process for carbon dioxide capture employing an unstirred reactor with cyclopentane. Energy, 2013, 63, 252-259.	4.5	125
23	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
24	Medium pressure hydrate based gas separation (HBGS) process for pre-combustion capture of carbon dioxide employing a novel fixed bed reactor. International Journal of Greenhouse Gas Control, 2013, 17, 206-214.	2.3	107
25	Systematic Evaluation of Tetra- <i>n</i> -butyl Ammonium Bromide (TBAB) for Carbon Dioxide Capture Employing the Clathrate Process. Industrial & Engineering Chemistry Research, 2014, 53, 4878-4887.	1.8	104
26	Numerical analysis of experimental studies of methane hydrate dissociation induced by depressurization in a sandy porous medium. Applied Energy, 2018, 230, 444-459.	5.1	104
27	Recovery of Methane from Hydrate Formed in a Variable Volume Bed of Silica Sand Particles. Energy & Fuels, 2009, 23, 5508-5516.	2.5	103
28	Amino Acids as Kinetic Promoters for Gas Hydrate Applications: A Mini Review. Energy & Fuels, 2021, 35, 7553-7571.	2.5	97
29	Semiclathrate hydrate process for pre-combustion capture of CO 2 at near ambient temperatures. Applied Energy, 2017, 194, 267-278.	5.1	94
30	Numerical analysis of experimental studies of methane hydrate formation in a sandy porous medium. Applied Energy, 2018, 220, 681-704.	5.1	92
31	A New Porous Material to Enhance the Kinetics of Clathrate Process: Application to Precombustion Carbon Dioxide Capture. Environmental Science & amp; Technology, 2013, 47, 13191-13198.	4.6	91
32	Morphology of Carbon Dioxide–Hydrogen–Cyclopentane Hydrates with or without Sodium Dodecyl Sulfate. Crystal Growth and Design, 2013, 13, 2047-2059.	1.4	86
33	Hydrates for cold energy storage and transport: A review. Advances in Applied Energy, 2021, 2, 100022.	6.6	83
34	Enhanced carbon dioxide hydrate formation kinetics in a fixed bed reactor filled with metallic packing. Chemical Engineering Science, 2015, 122, 78-85.	1.9	80
35	Effect of horizontal wellbore on the production behavior from marine hydrate bearing sediment. Applied Energy, 2018, 214, 117-130.	5.1	80
36	Effect of wellbore design on the production behaviour of methane hydrate-bearing sediments induced by depressurization. Applied Energy, 2019, 254, 113635.	5.1	80

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#	Article	IF	CITATIONS
37	Tuning the fluid production behaviour of hydrate-bearing sediments by multi-stage depressurization. Chemical Engineering Journal, 2021, 406, 127174.	6.6	69
38	Thermodynamic and Kinetic Verification of Tetra- <i>n</i> -butyl Ammonium Nitrate (TBANO ₃) as a Promoter for the Clathrate Process Applicable to Precombustion Carbon Dioxide Capture. Environmental Science & Technology, 2014, 48, 3550-3558.	4.6	67
39	Effect of pressure drawdown rate on the fluid production behaviour from methane hydrate-bearing sediments. Applied Energy, 2020, 271, 115195.	5.1	60
40	Semiclathrate based CO2 capture from fuel gas mixture at ambient temperature: Effect of concentrations of tetra-n-butylammonium fluoride (TBAF) and kinetic additives. Applied Energy, 2018, 217, 377-389.	5.1	58
41	Coaxial electrohydrodynamic atomization process for production of polymeric composite microspheres. Chemical Engineering Science, 2013, 104, 330-346.	1.9	56
42	Effect of sodium montmorillonite clay on the kinetics of CH4 hydrate - implication for energy recovery. Chemical Engineering Journal, 2022, 437, 135368.	6.6	56
43	Gas Production from Methane Hydrates in a Dual Wellbore System. Energy & Fuels, 2015, 29, 35-42.	2.5	53
44	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
45	Numerical Analysis of Experiments on Thermally Induced Dissociation of Methane Hydrates in Porous Media. Industrial & Engineering Chemistry Research, 2018, 57, 5776-5791.	1.8	51
46	Comparison of SDS and L-Methionine in promoting CO2 hydrate kinetics: Implication for hydrate-based CO2 storage. Chemical Engineering Journal, 2022, 438, 135504.	6.6	51
47	On the importance of phase saturation heterogeneity in the analysis of laboratory studies of hydrate dissociation. Applied Energy, 2019, 255, 113861.	5.1	44
48	Effectiveness of multi-stage cooling processes in improving the CH4-hydrate saturation uniformity in sandy laboratory samples. Applied Energy, 2019, 250, 729-747.	5.1	44
49	Effect of vertical wellbore incorporation on energy recovery from aqueous rich hydrate sediments. Applied Energy, 2018, 229, 637-647.	5.1	42
50	Methane hydrate formation in mixed-size porous media with gas circulation: Effects of sediment properties on gas consumption, hydrate saturation and rate constant. Fuel, 2018, 233, 94-102.	3.4	39
51	Effectiveness of CO2-N2 injection for synergistic CH4 recovery and CO2 sequestration at marine gas hydrates condition. Chemical Engineering Journal, 2021, 420, 129615.	6.6	36
52	Evaluation and comparison of gas production potential of the typical four gas hydrate deposits in Shenhu area, South China sea. Energy, 2020, 204, 117955.	4.5	29
53	An investigation on the permeability of hydrate-bearing sediments based on pore-scale CFD simulation. International Journal of Heat and Mass Transfer, 2022, 192, 122901.	2.5	24
54	An electrical resistivity-based method for measuring semi-clathrate hydrate formation kinetics: Application for cold storage and transport. Applied Energy, 2022, 308, 118397.	5.1	23

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#	Article	IF	CITATIONS
55	CO2 hydrate stability in oceanic sediments under brine conditions. Energy, 2022, 256, 124625.	4.5	22
56	Experimental study on methane hydrate formation in quartz sand under tri-axial condition. Journal of Natural Gas Science and Engineering, 2021, 85, 103707.	2.1	20
57	Modeling and characterizing the thermal and kinetic behavior of methane hydrate dissociation in sandy porous media. Applied Energy, 2022, 312, 118804.	5.1	20
58	Estimation of the thermal conductivity of a heterogeneous CH4-hydrate bearing sample based on particle swarm optimization. Applied Energy, 2020, 271, 115229.	5.1	17
59	Recovering Natural Gas from Gas Hydrates using Horizontal Wellbore. Energy Procedia, 2017, 143, 780-785.	1.8	14
60	Fluid production behavior from water-saturated hydrate-bearing sediments below the quadruple point of CH4Â+ÂH2O. Applied Energy, 2022, 305, 117902.	5.1	14
61	Key factors influencing the kinetics of tetra-n-butylammonium bromide hydrate formation as a cold storage and transport material. Chemical Engineering Journal, 2022, 446, 136843.	6.6	14
62	Experimental Study on Fluid Production from Methane Hydrate Sediments under the Marine Triaxial Condition. Energy & Fuels, 2021, 35, 3915-3924.	2.5	11
63	Production Behavior from Hydrate Bearing Marine Sediments using Depressurization Approach. Energy Procedia, 2017, 105, 4963-4969.	1.8	10
64	On the importance of DIOX concentration in promoting CH4 hydrate formation: A thermodynamic and kinetic investigation. Fuel, 2022, 324, 124355.	3.4	10
65	Experimental investigation on the production performance from oceanic hydrate reservoirs with different buried depths. Energy, 2022, 242, 122542.	4.5	9
66	Enhanced Gas Recovery from Water Saturated Hydrate Bearing Sediments Using Horizontal Wellbore. , 2018, , .		3
67	Effect of Multi-Stage Cooling on the Kinetic Behavior of Methane Hydrate Formation in Sandy Medium. Energy Procedia, 2019, 158, 5374-5381.	1.8	3
68	Effects of key geological factors in the long-term transport of CH4 and the CH4-hydrate formation behavior with formation dip. Journal of Natural Gas Science and Engineering, 2022, 103, 104615.	2.1	2
69	Numerical Modelling of Methane Hydrate Dissociation in Sandy Porous Media by Depressurization with a Parametric Study. , 2018, , .		0
70	Kinetic Behavior of CH-Hydrate Formation in a Sandy Medium Induced by a Multi-Stage Cooling Process. , 2019, , .		0