

Praveen Linga

List of Publications by Year in descending order

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papers

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13865

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174
all docs

174
docs citations

174
times ranked

3376
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of natural gas hydrates as an energy resource: Prospects and challenges. Applied Energy, 2016, 162, 1633-1652.	10.1	1,328
2	A review of the hydrate based gas separation (HBGS) process for carbon dioxide pre-combustion capture. Energy, 2015, 85, 261-279.	8.8	481
3	The clathrate hydrate process for post and pre-combustion capture of carbon dioxide. Journal of Hazardous Materials, 2007, 149, 625-629.	12.4	467
4	A review of solidified natural gas (SNG) technology for gas storage via clathrate hydrates. Applied Energy, 2018, 216, 262-285.	10.1	420
5	Hydrogen storage in clathrate hydrates: Current state of the art and future directions. Applied Energy, 2014, 122, 112-132.	10.1	337
6	Gas hydrate formation from hydrogen/carbon dioxide and nitrogen/carbon dioxide gas mixtures. Chemical Engineering Science, 2007, 62, 4268-4276.	3.8	329
7	Seawater desalination by gas hydrate process and removal characteristics of dissolved ions (Na ⁺ , K ⁺) Tj ETQq1 1 0.784314 rgBT /Ove	8.2	299
8	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.	3.8	292
9	A Review of Clathrate Hydrate Based Desalination To Strengthen Energy-Water Nexus. ACS Sustainable Chemistry and Engineering, 2018, 6, 8093-8107.	6.7	275
10	Rapid methane hydrate formation to develop a cost effective large scale energy storage system. Chemical Engineering Journal, 2016, 290, 161-173.	12.7	261
11	A new apparatus to enhance the rate of gas hydrate formation: Application to capture of carbon dioxide. International Journal of Greenhouse Gas Control, 2010, 4, 630-637.	4.6	255
12	LNG cold energy utilization: Prospects and challenges. Energy, 2019, 170, 557-568.	8.8	236
13	Review of gas hydrate dissociation kinetic models for energy recovery. Journal of Natural Gas Science and Engineering, 2016, 35, 1362-1387.	4.4	231
14	Gas hydrate formation process for pre-combustion capture of carbon dioxide. Energy, 2010, 35, 2729-2733.	8.8	227
15	A Review of Clathrate Hydrate Nucleation. ACS Sustainable Chemistry and Engineering, 2017, 5, 11176-11203.	6.7	224
16	Pre-combustion capture of carbon dioxide in a fixed bed reactor using the clathrate hydrate process. Energy, 2013, 50, 364-373.	8.8	222
17	Gas Hydrate Formation in a Variable Volume Bed of Silica Sand Particles. Energy & Fuels, 2009, 23, 5496-5507.	5.1	218
18	Influence of contact medium and surfactants on carbon dioxide clathrate hydrate kinetics. Fuel, 2013, 105, 664-671.	6.4	214

#	ARTICLE	IF	CITATIONS
19	A review of gas hydrate growth kinetic models. <i>Chemical Engineering Journal</i> , 2018, 342, 9-29.	12.7	211
20	Medium-Pressure Clathrate Hydrate/Membrane Hybrid Process for Postcombustion Capture of Carbon Dioxide. <i>Environmental Science & Technology</i> , 2008, 42, 315-320.	10.0	200
21	Methane hydrates: A future clean energy resource. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 2026-2036.	3.5	188
22	An innovative approach to enhance methane hydrate formation kinetics with leucine for energy storage application. <i>Applied Energy</i> , 2017, 188, 190-199.	10.1	180
23	Enhanced clathrate hydrate formation kinetics at near ambient temperatures and moderate pressures: Application to natural gas storage. <i>Fuel</i> , 2016, 182, 907-919.	6.4	173
24	Methane hydrate formation in excess water simulating marine locations and the impact of thermal stimulation on energy recovery. <i>Applied Energy</i> , 2016, 177, 409-421.	10.1	168
25	Carbon Dioxide Sequestration via Gas Hydrates: A Potential Pathway toward Decarbonization. <i>Energy & Fuels</i> , 2020, 34, 10529-10546.	5.1	168
26	Capture of carbon dioxide from flue or fuel gas mixtures by clathrate crystallization in a silica gel column. <i>International Journal of Greenhouse Gas Control</i> , 2010, 4, 478-485.	4.6	162
27	Enhanced growth of methane-propane clathrate hydrate crystals with sodium dodecyl sulfate, sodium tetradecyl sulfate, and sodium hexadecyl sulfate surfactants. <i>Journal of Crystal Growth</i> , 2010, 313, 68-80.	1.5	152
28	Structure and kinetics of gas hydrates from methane/ethane/propane mixtures relevant to the design of natural gas hydrate storage and transport facilities. <i>AIChE Journal</i> , 2008, 54, 2132-2144.	3.6	151
29	Recovery of Methane from a Variable-Volume Bed of Silica Sand/Hydrate by Depressurization. <i>Energy & Fuels</i> , 2010, 24, 2947-2955.	5.1	149
30	Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 2. Stirred Reactor Experiments. <i>Energy & Fuels</i> , 2011, 25, 4384-4391.	5.1	145
31	Morphology of Methane Hydrate Formation in Porous Media. <i>Energy & Fuels</i> , 2013, 27, 3364-3372.	5.1	145
32	Morphology Study of Methane Hydrate Formation and Dissociation in the Presence of Amino Acid. <i>Crystal Growth and Design</i> , 2016, 16, 5932-5945.	3.0	143
33	A Review of Reactor Designs and Materials Employed for Increasing the Rate of Gas Hydrate Formation. <i>Energy & Fuels</i> , 2017, 31, 1-13.	5.1	143
34	Effect of Biofriendly Amino Acids on the Kinetics of Methane Hydrate Formation and Dissociation. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6145-6154.	3.7	142
35	Experimental investigations on energy recovery from water-saturated hydrate bearing sediments via depressurization approach. <i>Applied Energy</i> , 2017, 204, 1513-1525.	10.1	135
36	Formation and Dissociation Kinetics of Methane Hydrates in Seawater and Silica Sand. <i>Energy & Fuels</i> , 2014, 28, 2708-2716.	5.1	132

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37	Unusual behavior of propane as a co-guest during hydrate formation in silica sand: Potential application to seawater desalination and carbon dioxide capture. <i>Chemical Engineering Science</i> , 2014, 117, 342-351.	3.8	131
38	A novel conceptual design of hydrate based desalination (HyDesal) process by utilizing LNG cold energy. <i>Applied Energy</i> , 2018, 222, 13-24.	10.1	131
39	Ultra-rapid uptake and the highly stable storage of methane as combustible ice. <i>Energy and Environmental Science</i> , 2020, 13, 4946-4961.	30.8	130
40	HBGS (hydrate based gas separation) process for carbon dioxide capture employing an unstirred reactor with cyclopentane. <i>Energy</i> , 2013, 63, 252-259.	8.8	125
41	Carbon dioxide hydrate kinetics in porous media with and without salts. <i>Applied Energy</i> , 2016, 162, 1131-1140.	10.1	113
42	Size Effect of Porous Media on Methane Hydrate Formation and Dissociation in an Excess Gas Environment. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7981-7991.	3.7	108
43	Medium pressure hydrate based gas separation (HBGS) process for pre-combustion capture of carbon dioxide employing a novel fixed bed reactor. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 206-214.	4.6	107
44	Systematic Evaluation of Tetra- <i>n</i> -butyl Ammonium Bromide (TBAB) for Carbon Dioxide Capture Employing the Clathrate Process. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 4878-4887.	3.7	104
45	Effect of NaCl on methane hydrate formation and dissociation in porous media. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 178-189.	4.4	104
46	Numerical analysis of experimental studies of methane hydrate dissociation induced by depressurization in a sandy porous medium. <i>Applied Energy</i> , 2018, 230, 444-459.	10.1	104
47	Recovery of Methane from Hydrate Formed in a Variable Volume Bed of Silica Sand Particles. <i>Energy & Fuels</i> , 2009, 23, 5508-5516.	5.1	103
48	Investigation on the roles of activated carbon particle sizes on methane hydrate formation and dissociation. <i>Chemical Engineering Science</i> , 2015, 126, 383-389.	3.8	103
49	Amino Acids as Kinetic Promoters for Gas Hydrate Applications: A Mini Review. <i>Energy & Fuels</i> , 2021, 35, 7553-7571.	5.1	97
50	Semiclathrate hydrate process for pre-combustion capture of CO ₂ at near ambient temperatures. <i>Applied Energy</i> , 2017, 194, 267-278.	10.1	94
51	Two-Stage Clathrate Hydrate/Membrane Process for Precombustion Capture of Carbon Dioxide and Hydrogen. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 411-417.	1.4	92
52	Numerical analysis of experimental studies of methane hydrate formation in a sandy porous medium. <i>Applied Energy</i> , 2018, 220, 681-704.	10.1	92
53	A New Porous Material to Enhance the Kinetics of Clathrate Process: Application to Precombustion Carbon Dioxide Capture. <i>Environmental Science & Technology</i> , 2013, 47, 13191-13198.	10.0	91
54	Morphology of Carbon Dioxide- <i>n</i> -Hydrogen- <i>n</i> -Cyclopentane Hydrates with or without Sodium Dodecyl Sulfate. <i>Crystal Growth and Design</i> , 2013, 13, 2047-2059.	3.0	86

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55	Economic evaluation of energy efficient hydrate based desalination utilizing cold energy from liquefied natural gas (LNG). <i>Desalination</i> , 2019, 463, 69-80.	8.2	86
56	Macroscopic kinetics of hydrate formation of mixed hydrates of hydrogen/tetrahydrofuran for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 4587-4596.	7.1	85
57	Surfactant effect on the kinetics of mixed hydrogen/propane hydrate formation for hydrogen storage as clathrates. <i>Chemical Engineering Science</i> , 2015, 126, 488-499.	3.8	85
58	Molecular Insights into the Nucleation and Growth of CH ₄ and CO ₂ Mixed Hydrates from Microsecond Simulations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25225-25236.	3.1	84
59	Hydrates for cold energy storage and transport: A review. <i>Advances in Applied Energy</i> , 2021, 2, 100022.	13.2	83
60	Enhanced carbon dioxide hydrate formation kinetics in a fixed bed reactor filled with metallic packing. <i>Chemical Engineering Science</i> , 2015, 122, 78-85.	3.8	80
61	CH ₄ Hydrate Formation between Silica and Graphite Surfaces: Insights from Microsecond Molecular Dynamics Simulations. <i>Langmuir</i> , 2017, 33, 11956-11967.	3.5	80
62	Effect of horizontal wellbore on the production behavior from marine hydrate bearing sediment. <i>Applied Energy</i> , 2018, 214, 117-130.	10.1	80
63	Effect of wellbore design on the production behaviour of methane hydrate-bearing sediments induced by depressurization. <i>Applied Energy</i> , 2019, 254, 113635.	10.1	80
64	Hydraulic fracturing in a penny-shaped crack. Part II: Testing the frackability of methane hydrate-bearing sand. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 52, 619-628.	4.4	78
65	What are the key factors governing the nucleation of CO ₂ hydrate?. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15657-15661.	2.8	75
66	Tuning the fluid production behaviour of hydrate-bearing sediments by multi-stage depressurization. <i>Chemical Engineering Journal</i> , 2021, 406, 127174.	12.7	69
67	Hydrate phase equilibrium of ternary gas mixtures containing carbon dioxide, hydrogen and propane. <i>Journal of Chemical Thermodynamics</i> , 2013, 61, 58-63.	2.0	67
68	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. <i>Environmental Science & Technology</i> , 2014, 48, 3550-3558.	10.0	67
69	Alleviation of Foam Formation in a Surfactant Driven Gas Hydrate System: Insights via a Detailed Morphological Study. <i>ACS Applied Energy Materials</i> , 2018, 1, 6899-6911.	5.1	64
70	Enhanced kinetics for the clathrate process in a fixed bed reactor in the presence of liquid promoters for pre-combustion carbon dioxide capture. <i>Energy</i> , 2014, 70, 664-673.	8.8	61
71	Effect of KCl and MgCl ₂ on the kinetics of methane hydrate formation and dissociation in sandy sediments. <i>Energy</i> , 2017, 137, 518-529.	8.8	61
72	Effect of pressure drawdown rate on the fluid production behaviour from methane hydrate-bearing sediments. <i>Applied Energy</i> , 2020, 271, 115195.	10.1	60

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73	Semiclathrate based CO ₂ 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.	10.1	58
74	Effects of temperature and pressure on the methane hydrate formation with the presence of tetrahydrofuran (THF) as a promoter in an unstirred tank reactor. Fuel, 2019, 255, 115705.	6.4	58
75	Clathrate hydrates for hydrogen storage: The impact of tetrahydrofuran, tetra-n-butylammonium bromide and cyclopentane as promoters on the macroscopic kinetics. International Journal of Hydrogen Energy, 2014, 39, 16234-16243.	7.1	57
76	Experimental Investigation To Elucidate Why Tetrahydrofuran Rapidly Promotes Methane Hydrate Formation Kinetics: Applicable to Energy Storage. Journal of Physical Chemistry C, 2016, 120, 29062-29068.	3.1	57
77	Kinetic Evaluation of Cyclopentane as a Promoter for CO ₂ Capture via a Clathrate Process Employing Different Contact Modes. ACS Sustainable Chemistry and Engineering, 2018, 6, 11913-11921.	6.7	55
78	Effect of L-Tryptophan in Promoting the Kinetics of Carbon Dioxide Hydrate Formation. Energy & Fuels, 2021, 35, 649-658.	5.1	55
79	Gas Production from Methane Hydrates in a Dual Wellbore System. Energy & Fuels, 2015, 29, 35-42.	5.1	53
80	Advances in nuclear magnetic resonance (NMR) techniques for the investigation of clathrate hydrates. Renewable and Sustainable Energy Reviews, 2017, 74, 1346-1360.	16.4	52
81	Clathrate hydrate formation of CO ₂ /CH ₄ mixture at room temperature: Application to direct transport of CO ₂ -containing natural gas. Applied Energy, 2019, 249, 190-203.	10.1	52
82	Numerical Analysis of Experiments on Thermally Induced Dissociation of Methane Hydrates in Porous Media. Industrial & Engineering Chemistry Research, 2018, 57, 5776-5791.	3.7	51
83	Hydrate phase equilibrium data of mixed methane-tetrahydrofuran hydrates in saline water. Journal of Chemical Thermodynamics, 2018, 117, 2-8.	2.0	50
84	Molecular level investigations and stability analysis of mixed methane-tetrahydrofuran hydrates: Implications to energy storage. Fuel, 2019, 236, 1505-1511.	6.4	50
85	Coal mine gas separation of methane via clathrate hydrate process aided by tetrahydrofuran and amino acids. Applied Energy, 2021, 287, 116576.	10.1	50
86	Rapid methane storage via sII hydrates at ambient temperature. Applied Energy, 2020, 269, 115142.	10.1	49
87	Influence of cationic and non-ionic surfactants on the kinetics of mixed hydrogen/tetrahydrofuran hydrates. Chemical Engineering Science, 2015, 132, 186-199.	3.8	48
88	High pressure rheology of gas hydrate formed from multiphase systems using modified Couette rheometer. Review of Scientific Instruments, 2017, 88, 025102.	1.3	48
89	Direct use of seawater for rapid methane storage via clathrate (sII) hydrates. Applied Energy, 2019, 235, 21-30.	10.1	48
90	Hydrate-based desalination (HyDesal) process employing a novel prototype design. Chemical Engineering Science, 2020, 218, 115563.	3.8	47

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91	A systematic kinetic study to evaluate the effect of tetrahydrofuran on the clathrate process for pre-combustion capture of carbon dioxide. <i>Energy</i> , 2016, 94, 431-442.	8.8	45
92	Effect of guest gas on the mixed tetrahydrofuran hydrate kinetics in a quiescent system. <i>Applied Energy</i> , 2017, 207, 573-583.	10.1	44
93	On the importance of phase saturation heterogeneity in the analysis of laboratory studies of hydrate dissociation. <i>Applied Energy</i> , 2019, 255, 113861.	10.1	44
94	Effectiveness of multi-stage cooling processes in improving the CH ₄ -hydrate saturation uniformity in sandy laboratory samples. <i>Applied Energy</i> , 2019, 250, 729-747.	10.1	44
95	Thermodynamic and kinetic modelling of mixed CH ₄ -THF hydrate for methane storage application. <i>Chemical Engineering Journal</i> , 2019, 370, 760-771.	12.7	43
96	Effect of vertical wellbore incorporation on energy recovery from aqueous rich hydrate sediments. <i>Applied Energy</i> , 2018, 229, 637-647.	10.1	42
97	Stability analysis of methane hydrates for gas storage application. <i>Chemical Engineering Journal</i> , 2021, 415, 128927.	12.7	42
98	Morphology Study of Mixed Methane-Tetrahydrofuran Hydrates with and without the Presence of Salt. <i>Energy & Fuels</i> , 2019, 33, 4865-4876.	5.1	41
99	Impact of Fly Ash Impurity on the Hydrate-Based Gas Separation Process for Carbon Dioxide Capture from a Flue Gas Mixture. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9849-9859.	3.7	40
100	CO ₂ capture using the clathrate hydrate process employing cellulose foam as a porous media. <i>Canadian Journal of Chemistry</i> , 2015, 93, 808-814.	1.1	39
101	Hydraulic fracturing in a penny-shaped crack. Part I: Methodology and testing of frozen sand. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 52, 609-618.	4.4	39
102	Experimental investigation of the effect of poly-N-vinyl pyrrolidone (PVP) on methane/propane clathrates using a new contact mode. <i>Chemical Engineering Science</i> , 2013, 93, 387-394.	3.8	35
103	Insights into the Kinetics of Methane Hydrate Formation in a Stirred Tank Reactor by In-Situ Raman Spectroscopy. <i>Energy Technology</i> , 2015, 3, 925-934.	3.8	35
104	Innovative Approach To Enhance the Methane Hydrate Formation at Near-Ambient Temperature and Moderate Pressure for Gas Storage Applications. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22178-22192.	3.7	34
105	New Hydrate Phase Equilibrium Data for Two Binary Gas Mixtures of Hydrogen and Propane Coupled with a Kinetic Study. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 228-237.	1.9	33
106	Macroscopic Kinetic Investigations on Mixed Natural Gas Hydrate Formation for Gas Storage Application. <i>Energy & Fuels</i> , 2020, 34, 15257-15269.	5.1	33
107	Hydrogen Economy and Role of Hythane as a Bridging Solution: A Perspective Review. <i>Energy & Fuels</i> , 2021, 35, 15424-15454.	5.1	33
108	Dissociation of Fresh- And Seawater Hydrates along the Phase Boundaries between 2.3 and 17 MPa. <i>Energy & Fuels</i> , 2012, 26, 6240-6246.	5.1	32

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109	Mechanism of methane hydrate formation in the presence of hollow silica. Korean Journal of Chemical Engineering, 2016, 33, 2050-2062.	2.7	32
110	Laboratory demonstration of the stability of CO ₂ hydrates in deep-oceanic sediments. Chemical Engineering Journal, 2022, 432, 134290.	12.7	31
111	Effect of additives on formation and decomposition kinetics of methane clathrate hydrates: Application in energy storage and transportation. Canadian Journal of Chemical Engineering, 2016, 94, 2160-2167.	1.7	30
112	Impact of experimental pressure and temperature on semiclathrate hydrate formation for pre-combustion capture of CO ₂ using tetra-n-butyl ammonium nitrate. Energy, 2014, 78, 458-464.	8.8	29
113	Impact of fixed bed reactor orientation, liquid saturation, bed volume and temperature on the clathrate hydrate process for pre-combustion carbon capture. Journal of Natural Gas Science and Engineering, 2016, 35, 1499-1510.	4.4	29
114	Seawater based mixed methane-THF hydrate formation at ambient temperature conditions. Applied Energy, 2020, 271, 115158.	10.1	29
115	Effect of Eco-Friendly Cyclodextrin on the Kinetics of Mixed Methane-Tetrahydrofuran Hydrate Formation. Industrial & Engineering Chemistry Research, 2018, 57, 5944-5950.	3.7	28
116	Enhanced hydrate formation by natural-like hydrophobic side chain amino acids at ambient temperature: A kinetics and morphology investigation. Fuel, 2021, 299, 120828.	6.4	27
117	Hydrogen storage as clathrate hydrates in the presence of 1,3-dioxolane as a dual-function promoter. Chemical Engineering Journal, 2022, 427, 131771.	12.7	27
118	Natural Gas Hydrate Formation Using Saline/Seawater for Gas Storage Application. Energy & Fuels, 2021, 35, 5988-6002.	5.1	26
119	Rapid and energy-dense methane hydrate formation at near ambient temperature using 1,3-dioxolane as a dual-function promoter. Applied Energy, 2022, 311, 118678.	10.1	26
120	Techno-Economic Evaluation of Cyclopentane Hydrate-Based Desalination with Liquefied Natural Gas Cold Energy Utilization. Energy Technology, 2020, 8, 1900212.	3.8	24
121	Investigation of the kinetics of mixed methane hydrate formation kinetics in saline and seawater. Applied Energy, 2019, 253, 113515.	10.1	23
122	Sodium Dodecyl Sulfate Preferentially Promotes Enclathration of Methane in Mixed Methane-Tetrahydrofuran Hydrates. IScience, 2019, 14, 136-146.	4.1	23
123	Effect of Cyclooctane and L-Tryptophan on Hydrate Formation from an Equimolar CO ₂ -CH ₄ Gas Mixture Employing a Horizontal-Tray Packed Bed Reactor. Energy & Fuels, 2020, 34, 9840-9851.	5.1	23
124	Separation of coal mine methane gas mixture via sII and sH hydrate formation. Fuel, 2021, 305, 121467.	6.4	23
125	An electrical resistivity-based method for measuring semi-clathrate hydrate formation kinetics: Application for cold storage and transport. Applied Energy, 2022, 308, 118397.	10.1	23
126	Morphology Study on the Effect of Thermodynamic Inhibitors during Methane Hydrate Formation in the Presence of NaCl. Crystal Growth and Design, 2018, 18, 6984-6994.	3.0	22

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127	Investigation on the kinetics of methane hydrate formation in the presence of methyl ester sulfonate. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 71, 102999.	4.4	22
128	CO ₂ hydrate stability in oceanic sediments under brine conditions. <i>Energy</i> , 2022, 256, 124625.	8.8	22
129	Solidified Hydrogen Storage (Solid-HyStore) via Clathrate Hydrates. <i>Chemical Engineering Journal</i> , 2022, 431, 133702.	12.7	21
130	Crystal Growth of Hydrogen/Tetra- <i>n</i> -butylammonium Bromide Semiclathrates Based on Morphology Study. <i>Crystal Growth and Design</i> , 2014, 14, 1950-1960.	3.0	20
131	Modeling and characterizing the thermal and kinetic behavior of methane hydrate dissociation in sandy porous media. <i>Applied Energy</i> , 2022, 312, 118804.	10.1	20
132	CO ₂ Hydrates – Effect of Additives and Operating Conditions on the Morphology and Hydrate Growth. <i>Energy Procedia</i> , 2017, 105, 5048-5054.	1.8	19
133	Improved Kinetics and Water Recovery with Propane as Co-Guest Gas on the Hydrate-Based Desalination (HyDesal) Process. <i>ChemEngineering</i> , 2019, 3, 31.	2.4	19
134	CO ₂ Hydrate Formation Kinetics and Morphology Observations Using High-Pressure Liquid CO ₂ Applicable to Sequestration. <i>Energy & Fuels</i> , 2022, 36, 10627-10641.	5.1	19
135	Organic Rankine cycle integrated with hydrate-based desalination for a sustainable energy-water nexus system. <i>Applied Energy</i> , 2021, 291, 116839.	10.1	18
136	Comparison of the Levenberg-Marquardt Optimization and Gauss-Newton Methods for Parameter Estimation in Ordinary Differential Equation Models. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4716-4725.	3.7	17
137	Morphological Studies of Mixed Methane Tetrahydrofuran Hydrates in Saline Water for Energy Storage Application. <i>Energy Procedia</i> , 2017, 143, 786-791.	1.8	17
138	Estimation of the thermal conductivity of a heterogeneous CH ₄ -hydrate bearing sample based on particle swarm optimization. <i>Applied Energy</i> , 2020, 271, 115229.	10.1	17
139	Hydrate-Based Gas Storage Application Using Simulated Seawater in the Presence of a Co-Promoter: Morphology Investigation. <i>Energy & Fuels</i> , 2022, 36, 1100-1113.	5.1	17
140	Experimental measurements and modeling of the dissociation conditions of semiclathrate hydrates of tetrabutyl ammonium nitrate and carbon dioxide. <i>Fluid Phase Equilibria</i> , 2016, 413, 80-85.	2.5	15
141	Kinetic and Morphology Study of Equimolar CO ₂ -CH ₄ Hydrate Formation in the Presence of Cyclooctane and L-Tryptophan. <i>Energy & Fuels</i> , 2021, 35, 636-648.	5.1	15
142	Methane Production from Natural Gas Hydrates via Carbon Dioxide Fixation. <i>Energy Procedia</i> , 2014, 61, 1776-1779.	1.8	14
143	Recovering Natural Gas from Gas Hydrates using Horizontal Wellbore. <i>Energy Procedia</i> , 2017, 143, 780-785.	1.8	14
144	Fluid production behavior from water-saturated hydrate-bearing sediments below the quadruple point of CH ₄ +H ₂ O. <i>Applied Energy</i> , 2022, 305, 117902.	10.1	14

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145	Key factors influencing the kinetics of tetra-n-butylammonium bromide hydrate formation as a cold storage and transport material. <i>Chemical Engineering Journal</i> , 2022, 446, 136843.	12.7	14
146	Kinetic promotion of mixed methane-THF hydrate by additives: Opportune to energy storage. <i>Energy Procedia</i> , 2019, 158, 5287-5292.	1.8	12
147	A robust and highly efficient phase boundary method for determining the thermodynamic equilibrium conditions of bulk gas hydrate systems. <i>Fluid Phase Equilibria</i> , 2021, 540, 113034.	2.5	12
148	CO ₂ –CH ₄ Hydrate Formation Using <i>l</i> -Tryptophan and Cyclooctane Employing a Conventional Stirred Tank Reactor. <i>Energy & Fuels</i> , 2021, 35, 13224-13239.	5.1	11
149	Production Behavior from Hydrate Bearing Marine Sediments using Depressurization Approach. <i>Energy Procedia</i> , 2017, 105, 4963-4969.	1.8	10
150	In Situ Characterization of Mixed CH ₄ –THF Hydrates Formed from Seawater: High-Pressure Calorimetric and Spectroscopic Analysis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16435-16443.	3.1	10
151	Experimental investigation on the production performance from oceanic hydrate reservoirs with different buried depths. <i>Energy</i> , 2022, 242, 122542.	8.8	9
152	The Impact of Pressure and Temperature on Tetra-n-butyl Ammonium Bromide Semi-clathrate Process for Carbon Dioxide Capture. <i>Energy Procedia</i> , 2014, 61, 1780-1783.	1.8	8
153	Calorimetric Assessment of Ternary Methane–Carbon Dioxide–Tetrahydrofuran (CH ₄ –CO ₂ –THF) Hydrates: Application in Storage and Transport of CO ₂ Lean Natural Gas. <i>Energy & Fuels</i> , 2021, 35, 13249-13255.	5.1	8
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