

Xiao-Sen Li

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271
papers

9,060
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52
h-index

84
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281
ext. papers

10,668
ext. citations

5.3
avg, IF

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L-index

#	Paper	IF	Citations
271	Review of natural gas hydrates as an energy resource: Prospects and challenges. <i>Applied Energy</i> , 2016 , 162, 1633-1652	10.7	912
270	Investigation into gas production from natural gas hydrate: A review. <i>Applied Energy</i> , 2016 , 172, 286-322	10.7	334
269	Evaluation of Gas Production Potential from Marine Gas Hydrate Deposits in Shenhu Area of South China Sea. <i>Energy & Fuels</i> , 2010 , 24, 6018-6033	4.1	191
268	Tetra-n-butyl ammonium bromide semi-clathrate hydrate process for post-combustion capture of carbon dioxide in the presence of dodecyl trimethyl ammonium chloride. <i>Energy</i> , 2010 , 35, 3902-3908	7.9	170
267	Depressurization induced gas production from hydrate deposits with low gas saturation in a pilot-scale hydrate simulator. <i>Applied Energy</i> , 2014 , 129, 274-286	10.7	163
266	Control Mechanisms for Gas Hydrate Production by Depressurization in Different Scale Hydrate Reservoirs. <i>Energy & Fuels</i> , 2007 , 21, 227-233	4.1	160
265	Hydrate-based pre-combustion carbon dioxide capture process in the system with tetra-n-butyl ammonium bromide solution in the presence of cyclopentane. <i>Energy</i> , 2011 , 36, 1394-1403	7.9	158
264	Experimental investigation into gas production from methane hydrate in sediment by depressurization in a novel pilot-scale hydrate simulator. <i>Applied Energy</i> , 2012 , 93, 722-732	10.7	145
263	Gas Hydrate Formation Process for Capture of Carbon Dioxide from Fuel Gas Mixture. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 11614-11619	3.9	143
262	Experimental Investigation of Production Behavior of Methane Hydrate under Ethylene Glycol Injection in Unconsolidated Sediment. <i>Energy & Fuels</i> , 2007 , 21, 3388-3393	4.1	139
261	Research progress of hydrate-based CO ₂ separation and capture from gas mixtures. <i>RSC Advances</i> , 2014 , 4, 18301-18316	3.7	135
260	The use of huff and puff method in a single horizontal well in gas production from marine gas hydrate deposits in the Shenhu Area of South China Sea. <i>Journal of Petroleum Science and Engineering</i> , 2011 , 77, 49-68	4.4	122
259	Experimental study on the hydrate dissociation in porous media by five-spot thermal huff and puff method. <i>Fuel</i> , 2014 , 117, 688-696	7.1	114
258	Equilibrium Hydrate Formation Conditions for the Mixtures of CO ₂ + H ₂ + Tetrabutyl Ammonium Bromide. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2180-2184	2.8	112
257	Large scale experimental evaluation to methane hydrate dissociation below quadruple point in sandy sediment. <i>Applied Energy</i> , 2016 , 162, 372-381	10.7	105
256	CO ₂ (carbon dioxide) separation from CO ₂ /H ₂ (hydrogen) gas mixtures by gas hydrates in TBAB (tetra-n-butyl ammonium bromide) solution and Raman spectroscopic analysis. <i>Energy</i> , 2013 , 59, 719-723	7.9	96
255	Synergic effect of cyclopentane and tetra-n-butyl ammonium bromide on hydrate-based carbon dioxide separation from fuel gas mixture by measurements of gas uptake and X-ray diffraction patterns. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 720-727	6.7	93

254	Experimental Investigation into the Production Behavior of Methane Hydrate in Porous Sediment with Hot Brine Stimulation. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 9696-9702	3.9	91
253	Experimental Investigation into the Production Behavior of Methane Hydrate in Porous Sediment by Depressurization with a Novel Three-Dimensional Cubic Hydrate Simulator. <i>Energy & Fuels</i> , 2011 , 25, 4497-4505	4.1	88
252	Gas hydrate equilibrium dissociation conditions in porous media using two thermodynamic approaches. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 1464-1474	2.9	88
251	Experimental investigation into methane hydrate production during three-dimensional thermal stimulation with five-spot well system. <i>Applied Energy</i> , 2013 , 110, 90-97	10.7	87
250	Analytic modeling and large-scale experimental study of mass and heat transfer during hydrate dissociation in sediment with different dissociation methods. <i>Energy</i> , 2015 , 90, 1931-1948	7.9	84
249	Effects of Tetrabutyl-(ammonium/phosphonium) Salts on Clathrate Hydrate Capture of CO ₂ from Simulated Flue Gas. <i>Energy & Fuels</i> , 2012 , 26, 2518-2527	4.1	82
248	Precombustion Capture of Carbon Dioxide and Hydrogen with a One-Stage Hydrate/Membrane Process in the Presence of Tetra-n-butylammonium Bromide (TBAB). <i>Energy & Fuels</i> , 2011 , 25, 1302-1309	4.1	82
247	Effect of horizontal and vertical well patterns on methane hydrate dissociation behaviors in pilot-scale hydrate simulator. <i>Applied Energy</i> , 2015 , 145, 69-79	10.7	80
246	A three-dimensional study on methane hydrate decomposition with different methods using five-spot well. <i>Applied Energy</i> , 2013 , 112, 83-92	10.7	78
245	Fluid flow mechanisms and heat transfer characteristics of gas recovery from gas-saturated and water-saturated hydrate reservoirs. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 118, 1115-1127	4.9	78
244	Production behaviors and heat transfer characteristics of methane hydrate dissociation by depressurization in conjunction with warm water stimulation with dual horizontal wells. <i>Energy</i> , 2015 , 79, 315-324	7.9	77
243	Experimental and Numerical Studies on Gas Production from Methane Hydrate in Porous Media by Depressurization in Pilot-Scale Hydrate Simulator. <i>Energy & Fuels</i> , 2012 , 26, 6300-6310	4.1	75
242	Research progress on methane production from natural gas hydrates. <i>RSC Advances</i> , 2015 , 5, 54672-54699	3.9	74
241	Experimental study on gas production from methane hydrate in porous media by huff and puff method in Pilot-Scale Hydrate Simulator. <i>Fuel</i> , 2012 , 94, 486-494	7.1	74
240	Equilibrium Hydrate Formation Conditions for the Mixtures of Methane + Ionic Liquids + Water. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 119-123	2.8	73
239	Methane hydrate dissociation using inverted five-spot water flooding method in cubic hydrate simulator. <i>Energy</i> , 2014 , 64, 298-306	7.9	72
238	Numerical simulation of gas production potential from permafrost hydrate deposits by huff and puff method in a single horizontal well in Qilian Mountain, Qinghai province. <i>Energy</i> , 2012 , 40, 59-75	7.9	72
237	Hydrate-based CO ₂ (carbon dioxide) capture from IGCC (integrated gasification combined cycle) synthesis gas using bubble method with a set of visual equipment. <i>Energy</i> , 2012 , 44, 358-366	7.9	69

236	Hydrate-based CO ₂ capture and CH ₄ purification from simulated biogas with synergic additives based on gas solvent. <i>Applied Energy</i> , 2016 , 162, 1153-1159	10.7	68
235	Experimental measurement and mathematical model of permeability with methane hydrate in quartz sands. <i>Applied Energy</i> , 2017 , 202, 282-292	10.7	67
234	Prediction of Gas Hydrate Formation Conditions in the Presence of Methanol, Glycerol, Ethylene Glycol, and Triethylene Glycol with the Statistical Associating Fluid Theory Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 2131-2137	3.9	67
233	Experimental Investigations into Gas Production Behaviors from Methane Hydrate with Different Methods in a Cubic Hydrate Simulator. <i>Energy & Fuels</i> , 2012 , 26, 1124-1134	4.1	65
232	Hydrate dissociation induced by depressurization in conjunction with warm brine stimulation in cubic hydrate simulator with silica sand. <i>Applied Energy</i> , 2016 , 174, 181-191	10.7	64
231	Pilot-scale experimental evaluation of gas recovery from methane hydrate using cycling-depressurization scheme. <i>Energy</i> , 2018 , 160, 835-844	7.9	63
230	Clathrate Dissociation Conditions for Methane + Tetra-n-butyl Ammonium Bromide (TBAB) + Water. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1916-1918	2.8	62
229	Effect of pressure on methane recovery from natural gas hydrates by methane-carbon dioxide replacement. <i>Applied Energy</i> , 2018 , 217, 527-536	10.7	61
228	Production behavior of methane hydrate in porous media using huff and puff method in a novel three-dimensional simulator. <i>Energy</i> , 2011 , 36, 3170-3178	7.9	61
227	Investigation into optimization condition of thermal stimulation for hydrate dissociation in the sandy reservoir. <i>Applied Energy</i> , 2015 , 154, 995-1003	10.7	58
226	Experimental and modeling analyses of scaling criteria for methane hydrate dissociation in sediment by depressurization. <i>Applied Energy</i> , 2016 , 181, 299-309	10.7	58
225	Experimental study on gas production from methane hydrate in porous media by SAGD method. <i>Applied Energy</i> , 2013 , 112, 1233-1240	10.7	57
224	Experimental study on characteristics of methane hydrate formation and dissociation in porous medium with different particle sizes using depressurization. <i>Fuel</i> , 2018 , 230, 37-44	7.1	57
223	Measurements of Water Permeability in Unconsolidated Porous Media with Methane Hydrate Formation. <i>Energies</i> , 2013 , 6, 3622-3636	3.1	56
222	Experimental investigation into methane hydrate production during three-dimensional thermal huff and puff. <i>Applied Energy</i> , 2012 , 94, 48-57	10.7	54
221	Raman analysis on methane production from natural gas hydrate by carbon dioxide-methane replacement. <i>Energy</i> , 2015 , 79, 111-116	7.9	53
220	Kinetic studies of methane hydrate formation in porous media based on experiments in a pilot-scale hydrate simulator and a new model. <i>Chemical Engineering Science</i> , 2014 , 105, 220-230	4.4	52
219	Vapor-liquid equilibrium of systems containing alcohols, water, carbon dioxide and hydrocarbons using SAFT. <i>Fluid Phase Equilibria</i> , 2004 , 224, 111-118	2.5	52

218	Adsorption, concentration, and recovery of aqueous heavy metal ions with the root powder of <i>Eichhornia crassipes</i> . <i>Ecological Engineering</i> , 2013 , 60, 160-166	3.9	51
217	Experimental Investigation into Methane Hydrate Decomposition during Three-Dimensional Thermal Huff and Puff. <i>Energy & Fuels</i> , 2011 , 25, 1650-1658	4.1	51
216	In situ hydrate dissociation using microwave heating: Preliminary study. <i>Energy Conversion and Management</i> , 2008 , 49, 2207-2213	10.6	50
215	Investigation of Interfacial Tensions for Carbon Dioxide Aqueous Solutions by Perturbed-Chain Statistical Associating Fluid Theory Combined with Density-Gradient Theory. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8911-8917	3.9	49
214	Gas Production from Methane Hydrate in a Pilot-Scale Hydrate Simulator Using the Huff and Puff Method by Experimental and Numerical Studies. <i>Energy & Fuels</i> , 2012 , 26, 7183-7194	4.1	48
213	Evaluation of CO ₂ hydrate formation from mixture of graphite nanoparticle and sodium dodecyl benzene sulfonate. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 59, 64-69	6.3	47
212	Experimental investigation of optimization of well spacing for gas recovery from methane hydrate reservoir in sandy sediment by heat stimulation. <i>Applied Energy</i> , 2017 , 207, 562-572	10.7	46
211	The use of dual horizontal wells in gas production from hydrate accumulations. <i>Applied Energy</i> , 2013 , 112, 1303-1310	10.7	45
210	Experimental Investigation into Factors Influencing Methane Hydrate Formation and a Novel Method for Hydrate Formation in Porous Media. <i>Energy & Fuels</i> , 2013 , 27, 3751-3757	4.1	45
209	Experimental Investigation into the Production Behavior of Methane Hydrate under Methanol Injection in Quartz Sand. <i>Energy & Fuels</i> , 2017 , 31, 5411-5418	4.1	43
208	Study on Pilot-Scale CO ₂ Separation from Flue Gas by the Hydrate Method. <i>Energy & Fuels</i> , 2014 , 28, 1242-1248	4.1	43
207	The effect of hydrate promoters on gas uptake. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 21769-21776	7.6	43
206	Production performance of gas hydrate accumulation at the GMGS2-Site 16 of the Pearl River Mouth Basin in the South China Sea. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 27, 306-320	4.6	43
205	Influence of well pattern on gas recovery from methane hydrate reservoir by large scale experimental investigation. <i>Energy</i> , 2018 , 152, 34-45	7.9	42
204	Numerical analysis of methane hydrate decomposition experiments by depressurization around freezing point in porous media. <i>Fuel</i> , 2015 , 159, 925-934	7.1	41
203	Integrated Process Study on Hydrate-Based Carbon Dioxide Separation from Integrated Gasification Combined Cycle (IGCC) Synthesis Gas in Scaled-Up Equipment. <i>Energy & Fuels</i> , 2012 , 26, 6442-6448	4.1	41
202	Evaluation of gas production from Qilian Mountain permafrost hydrate deposits in two-spot horizontal well system. <i>Cold Regions Science and Technology</i> , 2015 , 109, 87-98	3.8	39
201	Experimental Investigation of the Formation of Cyclopentane-Methane Hydrate in a Novel and Large-Size Bubble Column Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 5967-5973	3.9	39

200	Hydrate dissociation conditions for gas mixtures containing carbon dioxide, hydrogen, hydrogen sulfide, nitrogen, and hydrocarbons using SAFT. <i>Journal of Chemical Thermodynamics</i> , 2007 , 39, 417-425	2.9	39
199	Production of liquefied fuel from depolymerization of kraft lignin over a novel modified nickel/H-beta catalyst. <i>Bioresource Technology</i> , 2018 , 269, 346-354	11	39
198	Molecular Dynamics Simulation of the Crystal Nucleation and Growth Behavior of Methane Hydrate in the Presence of the Surface and Nanopores of Porous Sediment. <i>Langmuir</i> , 2016 , 32, 7975-84	4	37
197	Effect of graphite nanoparticles on CO ₂ hydrate phase equilibrium. <i>Fluid Phase Equilibria</i> , 2016 , 414, 23-28	2.5	37
196	Effects of Impermeable Boundaries on Gas Production from Hydrate Accumulations in the Shenhu Area of the South China Sea. <i>Energies</i> , 2013 , 6, 4078-4096	3.1	36
195	Investigation of Critical Properties and Surface Tensions for n-Alkanes by Perturbed-Chain Statistical Associating Fluid Theory Combined with Density-Gradient Theory and Renormalization-Group Theory. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 8199-8206	3.9	36
194	Research on micro-mechanism and efficiency of CH ₄ exploitation via CH ₄ -CO ₂ replacement from natural gas hydrates. <i>Fuel</i> , 2018 , 216, 255-265	7.1	36
193	Experimental Study on Methane Hydrate Dissociation by Depressurization in Porous Sediments. <i>Energies</i> , 2012 , 5, 518-530	3.1	35
192	Entropy generation analysis of hydrate dissociation by depressurization with horizontal well in different scales of hydrate reservoirs. <i>Energy</i> , 2017 , 125, 62-71	7.9	34
191	Numerical Investigation of Hydrate Dissociation Performance in the South China Sea with Different Horizontal Well Configurations. <i>Energies</i> , 2014 , 7, 4813-4834	3.1	34
190	Numerical Simulation of Gas Production from Natural Gas Hydrate Using a Single Horizontal Well by Depressurization in Qilian Mountain Permafrost. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 4424-4432	3.9	34
189	Evolution of Hydrate Dissociation by Warm Brine Stimulation Combined Depressurization in the South China Sea. <i>Energies</i> , 2013 , 6, 5402-5425	3.1	34
188	A pilot-scale study of gas production from hydrate deposits with two-spot horizontal well system. <i>Applied Energy</i> , 2016 , 176, 12-21	10.7	33
187	Thermodynamic Equilibrium Conditions for Simulated Landfill Gas Hydrate Formation in Aqueous Solutions of Additives. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3290-3295	2.8	33
186	Hydrate-Based Methane Separation from the Drainage Coal-Bed Methane with Tetrahydrofuran Solution in the Presence of Sodium Dodecyl Sulfate. <i>Energy & Fuels</i> , 2012 , 26, 1144-1151	4.1	33
185	Three dimensional experimental and numerical investigations into hydrate dissociation in sandy reservoir with dual horizontal wells. <i>Energy</i> , 2015 , 90, 836-845	7.9	32
184	Methane recovery from natural gas hydrate with simulated IGCC syngas. <i>Energy</i> , 2017 , 120, 192-198	7.9	31
183	Hydrate-based methane separation from coal mine methane gas mixture by bubbling using the scale-up equipment. <i>Applied Energy</i> , 2017 , 204, 1526-1534	10.7	31

182	Dissociation characteristics of water-saturated methane hydrate induced by huff and puff method. <i>Applied Energy</i> , 2018 , 211, 1171-1178	10.7	31
181	Experimental investigation into scaling models of methane hydrate reservoir. <i>Applied Energy</i> , 2014 , 115, 47-56	10.7	31
180	Vapor-Liquid Equilibrium of Systems Containing Alcohols Using the Statistical Associating Fluid Theory Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 4953-4961	3.9	31
179	The use of heat-assisted antigravity drainage method in the two horizontal wells in gas production from the Qilian Mountain permafrost hydrate deposits. <i>Journal of Petroleum Science and Engineering</i> , 2014 , 120, 141-153	4.4	29
178	Phase Equilibrium and Dissociation Enthalpies for Cyclopentane + Methane Hydrates in NaCl Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4444-4449	2.8	28
177	Study on Dissociation Behaviors of Methane Hydrate in Porous Media Based on Experiments and Fractional Dimension Shrinking-Core Model. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 8263-8271	3.9	28
176	Natural Gas Hydrate Formation in an Ejector Loop Reactor: Preliminary Study. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7934-7940	3.9	28
175	Hydrate-based acidic gases capture for clean methane with new synergic additives. <i>Applied Energy</i> , 2017 , 207, 584-593	10.7	27
174	Investigation of Vapor-Liquid Equilibria for Supercritical Carbon Dioxide and Hydrocarbon Mixtures by Perturbed-Chain Statistical Associating Fluid Theory. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 4364-4370	3.9	27
173	Distribution and reformation characteristics of gas hydrate during hydrate dissociation by thermal stimulation and depressurization methods. <i>Applied Energy</i> , 2020 , 277, 115575	10.7	27
172	Kinetic Behaviors of Methane Hydrate Formation in Porous Media in Different Hydrate Deposits. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5464-5474	3.9	26
171	Influence of heat conduction and heat convection on hydrate dissociation by depressurization in a pilot-scale hydrate simulator. <i>Applied Energy</i> , 2019 , 251, 113405	10.7	25
170	Raman spectroscopic studies on carbon dioxide separation from fuel gas via clathrate hydrate in the presence of tetrahydrofuran. <i>Applied Energy</i> , 2018 , 214, 92-102	10.7	25
169	Studies on UNIQUAC and SAFT equations for nonionic surfactant solutions. <i>Fluid Phase Equilibria</i> , 1998 , 153, 215-229	2.5	25
168	Insight into micro-mechanism of hydrate-based methane recovery and carbon dioxide capture from methane-carbon dioxide gas mixtures with thermal characterization. <i>Applied Energy</i> , 2019 , 239, 57-69	10.7	24
167	Preparation of Warm Brine in Situ Seafloor Based on the Hydrate Process for Marine Gas Hydrate Thermal Stimulation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14142-14157	3.9	24
166	Hydrate-based carbon dioxide capture from simulated integrated gasification combined cycle gas. <i>Journal of Natural Gas Chemistry</i> , 2012 , 21, 501-507		24
165	Molecular dynamics simulation of methane hydrate dissociation by depressurisation. <i>Molecular Simulation</i> , 2013 , 39, 251-260	2	24

164	Numerical simulation of the improved gas production from low permeability hydrate reservoirs by using an enlarged highly permeable well wall. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 183, 106404	4.4	23
163	Experimental Investigation into the Combustion Characteristics of Propane Hydrates in Porous Media. <i>Energies</i> , 2015 , 8, 1242-1255	3.1	23
162	Effect of Hydrate Saturation on the Methane Hydrate Dissociation by Depressurization in Sediments in a Cubic Hydrate Simulator. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 2627-2637	3.9	23
161	Experimental study on sediment deformation during methane hydrate decomposition in sandy and silty clay sediments with a novel experimental apparatus. <i>Fuel</i> , 2016 , 182, 446-453	7.1	23
160	Pilot-scale experimental test on gas production from methane hydrate decomposition using depressurization assisted with heat stimulation below quadruple point. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 131, 965-972	4.9	23
159	Effect of seawater ions on cyclopentane-methane hydrate phase equilibrium. <i>Fluid Phase Equilibria</i> , 2018 , 458, 272-277	2.5	23
158	Decomposition conditions of methane hydrate in marine sediments from South China Sea. <i>Fluid Phase Equilibria</i> , 2016 , 413, 110-115	2.5	22
157	Hydrate-based hydrogen purification from simulated syngas with synergic additives. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 2649-2659	6.7	22
156	Methane hydrate decomposition and sediment deformation in unconfined sediment with different types of concentrated hydrate accumulations by innovative experimental system. <i>Applied Energy</i> , 2018 , 226, 916-923	10.7	22
155	Study on developing a novel continuous separation device and carbon dioxide separation by process of hydrate combined with chemical absorption. <i>Applied Energy</i> , 2019 , 255, 113791	10.7	22
154	Molecular dynamics simulation of the intercalation behaviors of methane hydrate in montmorillonite. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2311	2	22
153	Phase Equilibrium and Dissociation Enthalpies for Hydrates of Various Water-Insoluble Organic Promoters with Methane. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 3249-3253	2.8	22
152	Evaluation of Gas Production from Marine Hydrate Deposits at the GMGS2-Site 8, Pearl River Mouth Basin, South China Sea. <i>Energies</i> , 2016 , 9, 222	3.1	22
151	Research progress in hydrate-based technologies and processes in China: A review. <i>Chinese Journal of Chemical Engineering</i> , 2019 , 27, 1998-2013	3.2	22
150	Formation Kinetics of Cyclopentane + Methane Hydrates in Brine Water Systems and Raman Spectroscopic Analysis. <i>Energy & Fuels</i> , 2015 , 29, 6104-6110	4.1	21
149	Coupling effect of porosity and hydrate saturation on the permeability of methane hydrate-bearing sediments. <i>Fuel</i> , 2020 , 269, 117425	7.1	21
148	Effects of particle and pore sizes on the formation behaviors of methane hydrate in porous silica gels. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 35, 1463-1471	4.6	21
147	Energy and entropy analyses of hydrate dissociation in different scales of hydrate simulator. <i>Energy</i> , 2016 , 102, 176-186	7.9	20

146	Experimental studies on hydrogen hydrate with tetrahydrofuran by differential scanning calorimeter and in-situ Raman. <i>Applied Energy</i> , 2019 , 243, 1-9	10.7	19
145	Natural gas hydrate resources and hydrate technologies: a review and analysis of the associated energy and global warming challenges. <i>Energy and Environmental Science</i> ,	35.4	19
144	Study on the hydrolysis/precipitation behavior of Keggin Al13 and Al30 polymers in polyaluminum solutions. <i>Journal of Environmental Management</i> , 2009 , 90, 2831-40	7.9	18
143	Kinetics, compositions and structures of carbon dioxide/hydrogen hydrate formation in the presence of cyclopentane. <i>Applied Energy</i> , 2020 , 265, 114808	10.7	17
142	Assessment of Gas Production Potential from Hydrate Reservoir in Qilian Mountain Permafrost Using Five-Spot Horizontal Well System. <i>Energies</i> , 2015 , 8, 10796-10817	3.1	17
141	Replacement of CH4 in Hydrate in Porous Sediments with Liquid CO2 Injection. <i>Chemical Engineering and Technology</i> , 2014 , 37, 2022-2029	2	17
140	Effect of temperature fluctuation on hydrate-based CO2 separation from fuel gas. <i>Journal of Natural Gas Chemistry</i> , 2011 , 20, 647-653		17
139	Optimization of the Production Pressure for Hydrate Dissociation by Depressurization. <i>Energy & Fuels</i> , 2020 , 34, 4296-4306	4.1	16
138	Hydrate-Based CO2 Capture from Integrated Gasification Combined Cycle Syngas with Tetra-n-butylammonium Bromide and Nano-Al2O3. <i>Energy & Fuels</i> , 2018 , 32, 2064-2072	4.1	16
137	Crystal morphology-based kinetic study of carbon dioxide-hydrogen-tetra-n-butyl ammonium bromide hydrates formation in a static system. <i>Energy</i> , 2018 , 143, 546-553	7.9	16
136	Experimental study of methane hydrate dissociation in porous media with different thermal conductivities. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 144, 118528	4.9	16
135	Phase equilibria and plate-fluid interfacial tensions for associating hard sphere fluids confined in slit pores. <i>Journal of Chemical Physics</i> , 2006 , 125, 084716	3.9	16
134	Study on ionic surfactant solutions by SAFT equation incorporated with MSA. <i>Fluid Phase Equilibria</i> , 2000 , 168, 107-123	2.5	16
133	Permeability measurements of quartz sands with methane hydrate. <i>Chemical Engineering Science</i> , 2019 , 193, 1-5	4.4	16
132	The plateau effects and crystal transition study in Tetrahydrofuran (THF)/CO2/H2 hydrate formation processes. <i>Applied Energy</i> , 2019 , 238, 195-201	10.7	15
131	On the acidBase stability of Keggin Al13 and Al30 polymers in polyaluminum coagulants. <i>Journal of Materials Science</i> , 2009 , 44, 3098-3111	4.3	15
130	Pore-scale analysis of relations between seepage characteristics and gas hydrate growth habit in porous sediments. <i>Energy</i> , 2021 , 218, 119503	7.9	15
129	The Formation of CH4 Hydrate in the Slit Nanopore between the Smectite Basal Surfaces by Molecular Dynamics Simulation. <i>Energy & Fuels</i> , 2018 , 32, 6467-6474	4.1	15

128	Large Scale Experimental Investigation on Influences of Reservoir Temperature and Production Pressure on Gas Production from Methane Hydrate in Sandy Sediment. <i>Energy & Fuels</i> , 2016 , 30, 2760-2770	4.1	14
127	Tri-Axial Shear Tests on Hydrate-Bearing Sediments during Hydrate Dissociation with Depressurization. <i>Energies</i> , 2018 , 11, 1819	3.1	14
126	Hydrate-based Capture CO ₂ and Purification CH ₄ from Simulated Landfill Gas with Synergic Additives Based on Gas Solvent. <i>Energy Procedia</i> , 2014 , 61, 450-454	2.3	14
125	Experimental and modeling study on controlling factor of methane hydrate formation in silica gels. <i>Applied Energy</i> , 2018 , 225, 827-834	10.7	14
124	Seawater Desalination by Hydrate Formation and Pellet Production Process. <i>Energy Procedia</i> , 2019 , 158, 5144-5148	2.3	13
123	Application of the NICA-Donnan approach to calculate equilibrium between proton and metal ions with lignocellulosic materials. <i>Journal of Colloid and Interface Science</i> , 2005 , 281, 267-74	9.3	13
122	Sediment deformation and strain evaluation during methane hydrate dissociation in a novel experimental apparatus. <i>Applied Energy</i> , 2020 , 262, 114397	10.7	12
121	A review of numerical research on gas production from natural gas hydrates in China. <i>Journal of Natural Gas Science and Engineering</i> , 2021 , 85, 103713	4.6	12
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26	Experimental simulation of gas hydrate decomposition in porous sediment. <i>Science China Earth Sciences</i> , 2013 , 56, 588-593	4.6	1
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