

# Xiao-Sen Li

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

271  
papers

9,060  
citations

52  
h-index

84  
g-index

281  
ext. papers

10,668  
ext. citations

5.3  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
271	Hydrate decomposition front within porous media under thermal stimulation and depressurization conditions: Macroscale to microscale. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 188, 122653	4.9	1
270	Research on micro mechanism and influence of hydrate-based methane-carbon dioxide replacement for realizing simultaneous clean energy exploitation and carbon emission reduction. <i>Chemical Engineering Science</i> , <b>2022</b> , 248, 117266	4.4	3
269	Memory effect of gas hydrate: Influencing factors of hydrate reformation and dissociation behaviors. <i>Applied Energy</i> , <b>2022</b> , 306, 118015	10.7	1
268	Sustainable hydrate production using intermittent depressurization in hydrate-bearing reservoirs connected with water layers. <i>Energy</i> , <b>2022</b> , 238, 121752	7.9	2
267	Experimental study of methane hydrate formation and decomposition in the porous medium with different thermal conductivities and grain sizes. <i>Applied Energy</i> , <b>2022</b> , 305, 117852	10.7	7
266	Numerical Evaluation of Long-Term Depressurization Production of a Multilayer Gas Hydrate Reservoir and Its Hydraulic Fracturing Applications. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 3154-3168	4.1	1
265	Review of methods and applications for promoting gas hydrate formation process. <i>Journal of Natural Gas Science and Engineering</i> , <b>2022</b> , 104528	4.6	1
264	Experimental study on the influence of brine concentration on the dissociation characteristics of methane hydrate. <i>Journal of Natural Gas Science and Engineering</i> , <b>2022</b> , 100, 104492	4.6	1
263	Gas-liquid asynchronous cooling promoting gas hydrate formation with high energy efficiency and its promoting mechanism. <i>Chemical Engineering Journal</i> , <b>2022</b> , 438, 135631	14.7	1
262	Experimental measurement and clustered equal diameter particle model of permeability with methane hydrate in glass beads. <i>Fuel</i> , <b>2022</b> , 320, 123924	7.1	1
261	Effects of the NaCl Concentration and Montmorillonite Content on Formation Kinetics of Methane Hydrate. <i>Journal of Marine Science and Engineering</i> , <b>2022</b> , 10, 548	2.4	1
260	Numerical Simulation of Hydrate Decomposition during the Drilling Process of the Hydrate Reservoir in the Northern South China Sea. <i>Energies</i> , <b>2022</b> , 15, 3273	3.1	0
259	Investigation of Gas-Water-Sand Fluid Resistivity Property as Potential Application for Marine Gas Hydrate Production. <i>Entropy</i> , <b>2022</b> , 24, 624	2.8	
258	Hydrate phase equilibrium and dissociation enthalpies for tetrahydrothiophene and different gas systems. <i>Fluid Phase Equilibria</i> , <b>2022</b> , 559, 113497	2.5	0
257	Study on Hydrate Production Behaviors by Depressurization Combined with Brine Injection in the Excess-Water Hydrate Reservoir. <i>Entropy</i> , <b>2022</b> , 24, 765	2.8	0
256	Experimental study of gas-liquid-sand production behaviors during gas hydrates dissociation with sand control screen. <i>Energy</i> , <b>2022</b> , 124414	7.9	1
255	A phase conversion method to anchor ZIF-8 onto a PAN nanofiber surface for CO capture.. <i>RSC Advances</i> , <b>2021</b> , 12, 664-670	3.7	2

254	Influence of Direct Current Voltage Accompanied by Charge Flow on CO <sub>2</sub> Hydrate Formation. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	1
253	Formation Behaviors of Methane Hydrate in Partially Water-Saturated Porous Media with Different Particle Sizes. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 19399-19409	4.1	2
252	Pore-scale analysis of relations between seepage characteristics and gas hydrate growth habit in porous sediments. <i>Energy</i> , <b>2021</b> , 218, 119503	7.9	15
251	Analysis of Hydrate Heterogeneous Distribution Effects on Mechanical Characteristics of Hydrate-Bearing Sediments. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 4914-4924	4.1	8
250	Pilot-Scale Experimental Investigation of Multifield Coupling and Heterogeneity during Hydrate Dissociation. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 7967-7980	4.1	0
249	Recent Advances on Natural Gas Hydrate Exploration and Development in the South China Sea. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 7528-7552	4.1	6
248	Effect of H <sub>2</sub> O Molecules on the CO <sub>2</sub> Replacement in CH <sub>4</sub> Hydrate Behavior by Molecular Simulation. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 8126-8140	4.1	3
247	Permeability investigation and hydrate migration of hydrate-bearing silty sands and silt. <i>Journal of Natural Gas Science and Engineering</i> , <b>2021</b> , 89, 103891	4.6	3
246	Effective thermal conductivity changes of the hydrate-bearing quartz sands in depressurization and soaking. <i>Journal of Natural Gas Science and Engineering</i> , <b>2021</b> , 89, 103878	4.6	3
245	Microscale Experiment and Pore-Network Modeling Analysis of Growth Habit, Pore Structure, and Permeability of Hydrate-Bearing Sediments. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 8773-8785	4.1	9
244	Effects of gas occurrence pattern on distribution and morphology characteristics of gas hydrates in porous media. <i>Energy</i> , <b>2021</b> , 226, 120401	7.9	7
243	Application of fracturing technology to increase gas production in low-permeability hydrate reservoir: A numerical study. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 34, 267-277	3.2	3
242	Investigation of the methane hydrate surface area during depressurization-induced dissociation in hydrate-bearing porous media. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 32, 324-334	3.2	5
241	Combined styles of depressurization and electrical heating for methane hydrate production. <i>Applied Energy</i> , <b>2021</b> , 282, 116112	10.7	11
240	A review of numerical research on gas production from natural gas hydrates in China. <i>Journal of Natural Gas Science and Engineering</i> , <b>2021</b> , 85, 103713	4.6	12
239	The optimization mechanism for gas hydrate dissociation by depressurization in the sediment with different water saturations and different particle sizes. <i>Energy</i> , <b>2021</b> , 215, 119129	7.9	10
238	The consistency of the normalized hydrate dissociation rate in the hydrate simulator with different scales. <i>Fuel</i> , <b>2021</b> , 287, 119436	7.1	5
237	Investigating the Interaction Effects between Reservoir Deformation and Hydrate Dissociation in Hydrate-Bearing Sediment by Depressurization Method. <i>Energies</i> , <b>2021</b> , 14, 548	3.1	5

236	The Relationship between Thermal Characteristics and Microstructure/Composition of Carbon Dioxide Hydrate in the Presence of Cyclopentane. <i>Energies</i> , <b>2021</b> , 14, 870	3.1	2
235	Heterogeneity of hydrate-bearing sediments: Definition and effects on fluid flow properties. <i>Energy</i> , <b>2021</b> , 229, 120736	7.9	5
234	Effect of hydrate distribution on effective thermal conductivity changes during hydrate formation in hydrate-bearing quartz sands. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 174, 121289	4.9	4
233	Influence of nickel foam on kinetics and separation efficiency of hydrate-based Carbon dioxide separation. <i>Energy</i> , <b>2021</b> , 231, 120826	7.9	1
232	A kinetic study of methane hydrate formation in the corn Cobs + Tetrahydrofuran solution system. <i>Fuel</i> , <b>2021</b> , 302, 121143	7.1	4
231	Visualization of Interactions between Depressurization-induced Hydrate Decomposition and Heat/Mass Transfer. <i>Energy</i> , <b>2021</b> , 122230	7.9	1
230	Effects of depressurizing rate on methane hydrate dissociation within large-scale experimental simulator. <i>Applied Energy</i> , <b>2021</b> , 304, 117750	10.7	5
229	Influence of Particle Size on the Heat and Mass Transfer Characteristics of Methane Hydrate Formation and Decomposition in Porous Media. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 2153-2164	4.1	12
228	Microscopic Insights into the Effect of the Initial Gas-Liquid Interface on Hydrate Formation by Raman in the System of Coalbed Methane and Tetrahydrofuran.. <i>ACS Omega</i> , <b>2021</b> , 6, 35467-35475	3.9	1
227	Analyzing the applicability of in situ heating methods in the gas production from natural gas hydrate-bearing sediment with field scale numerical study. <i>Energy Reports</i> , <b>2020</b> , 6, 3291-3302	4.6	5
226	Study on methane hydrate distributions in laboratory samples by electrical resistance characteristics during hydrate formation. <i>Journal of Natural Gas Science and Engineering</i> , <b>2020</b> , 80, 103385	4.6	3
225	Numerical modeling for drilling fluid invasion into hydrate-bearing sediments and effects of permeability. <i>Journal of Natural Gas Science and Engineering</i> , <b>2020</b> , 77, 103239	4.6	6
224	Kinetics, compositions and structures of carbon dioxide/hydrogen hydrate formation in the presence of cyclopentane. <i>Applied Energy</i> , <b>2020</b> , 265, 114808	10.7	17
223	The Effect of CO <sub>2</sub> Partial Pressure on CH <sub>4</sub> Recovery in CH <sub>4</sub> -CO <sub>2</sub> Swap with Simulated IGCC Syngas. <i>Energies</i> , <b>2020</b> , 13, 1017	3.1	6
222	Effects of Salinity on Formation Behavior of Methane Hydrate in Montmorillonite. <i>Energies</i> , <b>2020</b> , 13, 231	3.1	5
221	Optimization of the Production Pressure for Hydrate Dissociation by Depressurization. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 4296-4306	4.1	16
220	Coupling effect of porosity and hydrate saturation on the permeability of methane hydrate-bearing sediments. <i>Fuel</i> , <b>2020</b> , 269, 117425	7.1	21
219	Sediment deformation and strain evaluation during methane hydrate dissociation in a novel experimental apparatus. <i>Applied Energy</i> , <b>2020</b> , 262, 114397	10.7	12

218	Permeability measurement and discovery of dissociation process of hydrate sediments. <i>Journal of Natural Gas Science and Engineering</i> , <b>2020</b> , 75, 103155	4.6	8
217	Experimental study of the drilling process in hydrate-bearing sediments under different circulation rates of drilling fluid. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 189, 107001	4.4	5
216	Carbon dioxide hydrate separation from Integrated Gasification Combined Cycle (IGCC) syngas by a novel hydrate heat-mass coupling method. <i>Energy</i> , <b>2020</b> , 199, 117420	7.9	10
215	The determining factor of hydrate dissociation rate in the sediments with different water saturations. <i>Energy</i> , <b>2020</b> , 202, 117690	7.9	7
214	Catalytic depolymerization of Kraft lignin to produce liquid fuels via NiSn metal oxide catalysts. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1332-1339	5.8	6
213	Studies on temperature characteristics and initial formation interface during cyclopentane-methane hydrate formation in large-scale equipment with bubbling. <i>Applied Energy</i> , <b>2020</b> , 258, 114076	10.7	6
212	An experimental drilling apparatus used for evaluating drilling risks related to natural gas hydrate. <i>MethodsX</i> , <b>2020</b> , 7, 101019	1.9	0
211	Permeability determination of hydrate sediments and a new reduction model considering hydrate growth habit. <i>Fuel</i> , <b>2020</b> , 279, 118297	7.1	11
210	Distribution and reformation characteristics of gas hydrate during hydrate dissociation by thermal stimulation and depressurization methods. <i>Applied Energy</i> , <b>2020</b> , 277, 115575	10.7	27
209	Gas permeability and shape factor of natural sediments in the South China Sea. <i>Journal of Natural Gas Science and Engineering</i> , <b>2020</b> , 83, 103626	4.6	6
208	Study on the influencing factors of gas consumption in hydrate-based CO <sub>2</sub> separation in the presence of CP by Raman analysis. <i>Energy</i> , <b>2020</b> , 198, 117316	7.9	9
207	Advances of experimental study on gas production from synthetic hydrate reservoir in China. <i>Chinese Journal of Chemical Engineering</i> , <b>2019</b> , 27, 2213-2225	3.2	6
206	Comparison of CO <sub>2</sub> /H <sub>2</sub> /H <sub>2</sub> O Hydrate Formation Processes with Different Promoters. <i>Energy Procedia</i> , <b>2019</b> , 158, 5850-5855	2.3	4
205	Large scale experimental investigation of influence of heat conduction and heat convection on hydrate dissociation by depressurization in sandy sediment. <i>Energy Procedia</i> , <b>2019</b> , 158, 5666-5672	2.3	1
204	Study on the temperature characteristics in the process of cyclopentane-methane binary hydrate formation with a set of large-scale equipment. <i>Energy Procedia</i> , <b>2019</b> , 158, 5888-5894	2.3	1
203	CO <sub>2</sub> /H <sub>2</sub> /H <sub>2</sub> O Hydrate Formation with TBAB and Nanoporous Materials. <i>Energy Procedia</i> , <b>2019</b> , 158, 5866-5871	3	3
202	Gas Hydrate Formation Process for Simultaneously Capture of CO <sub>2</sub> and H <sub>2</sub> S. <i>Energy Procedia</i> , <b>2019</b> , 158, 5705-5710	2.3	5
201	Experimental investigation of influence of well spacing on hydrate dissociation by heat stimulation in sandy sediment. <i>Energy Procedia</i> , <b>2019</b> , 158, 5699-5704	2.3	0

200	Experimental Investigation on Deformation of Natural Gas Hydrate in the Process of Decompressing. <i>Energy Procedia</i> , <b>2019</b> , 158, 5510-5516	2.3	
199	Effect of fulvic acid on methane hydrate formation and dissociation in mixed porous media. <i>Energy Procedia</i> , <b>2019</b> , 158, 5323-5328	2.3	
198	Formation and Dissociation Behavior Studies of Hydrogen Hydrate in the presence of Tetrahydrofuran by using High Pressure DSC. <i>Energy Procedia</i> , <b>2019</b> , 158, 5149-5155	2.3	5
197	Seawater Desalination by Hydrate Formation and Pellet Production Process. <i>Energy Procedia</i> , <b>2019</b> , 158, 5144-5148	2.3	13
196	Drilling Simulation in Hydrate-bearing Sediments Using a Novel Hydrate Drilling Simulator. <i>Energy Procedia</i> , <b>2019</b> , 158, 5138-5143	2.3	1
195	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> , <b>2019</b> , 183, 106404	4.4	23
194	The SAFT for prediction of hydrate formation conditions of gas mixtures in the presence of methane, glycerol, ethylene glycol, and triethylene glycol. <i>Energy</i> , <b>2019</b> , 188, 116028	7.9	1
193	The plateau effects and crystal transition study in Tetrahydrofuran (THF)/CO <sub>2</sub> /H <sub>2</sub> hydrate formation processes. <i>Applied Energy</i> , <b>2019</b> , 238, 195-201	10.7	15
192	Effect of Fulvic Acid and Sodium Chloride on the Phase Equilibrium of Methane Hydrate in Mixed Sand/Clay Sediment. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 632-639	2.8	3
191	Influence of heat conduction and heat convection on hydrate dissociation by depressurization in a pilot-scale hydrate simulator. <i>Applied Energy</i> , <b>2019</b> , 251, 113405	10.7	25
190	Decomposition behaviors of methane hydrate in porous media below the ice melting point by depressurization. <i>Chinese Journal of Chemical Engineering</i> , <b>2019</b> , 27, 2207-2212	3.2	1
189	Experimental studies on hydrogen hydrate with tetrahydrofuran by differential scanning calorimeter and in-situ Raman. <i>Applied Energy</i> , <b>2019</b> , 243, 1-9	10.7	19
188	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> , <b>2019</b> , 239, 57-69	10.7	24
187	Experimental study of methane hydrate dissociation in porous media with different thermal conductivities. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 144, 118528	4.9	16
186	Study on developing a novel continuous separation device and carbon dioxide separation by process of hydrate combined with chemical absorption. <i>Applied Energy</i> , <b>2019</b> , 255, 113791	10.7	22
185	Gas Permeability and Production Potential of Marine Hydrate Deposits in South China Sea. <i>Energies</i> , <b>2019</b> , 12, 4117	3.1	8
184	Influence of the Particle Size of Sandy Sediments on Heat and Mass Transfer Characteristics during Methane Hydrate Dissociation by Thermal Stimulation. <i>Energies</i> , <b>2019</b> , 12, 4227	3.1	5
183	Permeability measurements of quartz sands with methane hydrate. <i>Chemical Engineering Science</i> , <b>2019</b> , 193, 1-5	4.4	16

182	Methane hydrate formation and dissociation behaviors in montmorillonite. <i>Chinese Journal of Chemical Engineering</i> , <b>2019</b> , 27, 1212-1218	3.2	11
181	Research progress in hydrate-based technologies and processes in China: A review. <i>Chinese Journal of Chemical Engineering</i> , <b>2019</b> , 27, 1998-2013	3.2	22
180	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> , <b>2019</b> , 131, 965-972	4.9	23
179	Dissociation characteristics of water-saturated methane hydrate induced by huff and puff method. <i>Applied Energy</i> , <b>2018</b> , 211, 1171-1178	10.7	31
178	Study on Temperature Characteristics of Hydrate Slurry during Cyclopentane-Methane Hydrate Formation. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 1558-1566	4.1	1
177	Hydrate-Based CO <sub>2</sub> Capture from Integrated Gasification Combined Cycle Syngas with Tetra-n-butylammonium Bromide and Nano-Al <sub>2</sub> O <sub>3</sub> . <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 2064-2072	4.1	16
176	Influence of well pattern on gas recovery from methane hydrate reservoir by large scale experimental investigation. <i>Energy</i> , <b>2018</b> , 152, 34-45	7.9	42
175	Raman spectroscopic studies on carbon dioxide separation from fuel gas via clathrate hydrate in the presence of tetrahydrofuran. <i>Applied Energy</i> , <b>2018</b> , 214, 92-102	10.7	25
174	Effect of pressure on methane recovery from natural gas hydrates by methane-carbon dioxide replacement. <i>Applied Energy</i> , <b>2018</b> , 217, 527-536	10.7	61
173	Crystal morphology-based kinetic study of carbon dioxide-hydrogen-tetra-n-butyl ammonium bromide hydrates formation in a static system. <i>Energy</i> , <b>2018</b> , 143, 546-553	7.9	16
172	Evaluation of CO <sub>2</sub> hydrate formation from mixture of graphite nanoparticle and sodium dodecyl benzene sulfonate. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 59, 64-69	6.3	47
171	Methane hydrate decomposition and sediment deformation in unconfined sediment with different types of concentrated hydrate accumulations by innovative experimental system. <i>Applied Energy</i> , <b>2018</b> , 226, 916-923	10.7	22
170	Gas-Lifting Characteristics of Methane-Water Mixture and Its Potential Application for Self-Eruption Production of Marine Natural Gas Hydrates. <i>Energies</i> , <b>2018</b> , 11, 240	3.1	4
169	Anti-Agglomerator of Tetra-n-Butyl Ammonium Bromide Hydrate and Its Effect on Hydrate-Based CO <sub>2</sub> Capture. <i>Energies</i> , <b>2018</b> , 11, 399	3.1	6
168	Pilot-scale experimental evaluation of gas recovery from methane hydrate using cycling-depressurization scheme. <i>Energy</i> , <b>2018</b> , 160, 835-844	7.9	63
167	Permeability experiments on the methane hydrate in quartz sands and its model verification. <i>Natural Gas Industry B</i> , <b>2018</b> , 5, 298-305	1.5	9
166	Tri-Axial Shear Tests on Hydrate-Bearing Sediments during Hydrate Dissociation with Depressurization. <i>Energies</i> , <b>2018</b> , 11, 1819	3.1	14
165	Experimental Investigation on the Production Behaviors of Methane Hydrate in Sandy Sediments by Different Depressurization Strategies. <i>Energy Technology</i> , <b>2018</b> , 6, 2501-2511	3.5	8

164	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> , <b>2018</b> , 118, 1115-1127	4.9	78
163	Research on micro-mechanism and efficiency of CH <sub>4</sub> exploitation via CH <sub>4</sub> -CO <sub>2</sub> replacement from natural gas hydrates. <i>Fuel</i> , <b>2018</b> , 216, 255-265	7.1	36
162	Effect of seawater ions on cyclopentane-methane hydrate phase equilibrium. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 458, 272-277	2.5	23
161	Production of liquefied fuel from depolymerization of kraft lignin over a novel modified nickel/H-beta catalyst. <i>Bioresource Technology</i> , <b>2018</b> , 269, 346-354	11	39
160	Experimental and modeling study on controlling factor of methane hydrate formation in silica gels. <i>Applied Energy</i> , <b>2018</b> , 225, 827-834	10.7	14
159	Experimental study on characteristics of methane hydrate formation and dissociation in porous medium with different particle sizes using depressurization. <i>Fuel</i> , <b>2018</b> , 230, 37-44	7.1	57
158	The Formation of CH <sub>4</sub> Hydrate in the Slit Nanopore between the Smectite Basal Surfaces by Molecular Dynamics Simulation. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 6467-6474	4.1	15
157	Recovery of methane from coal-bed methane gas mixture via hydrate-based methane separation method by adding anionic surfactants. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2018</b> , 40, 1019-1026	1.6	12
156	Methane recovery from natural gas hydrate with simulated IGCC syngas. <i>Energy</i> , <b>2017</b> , 120, 192-198	7.9	31
155	Entropy generation analysis of hydrate dissociation by depressurization with horizontal well in different scales of hydrate reservoirs. <i>Energy</i> , <b>2017</b> , 125, 62-71	7.9	34
154	Hydrate-based methane separation from coal mine methane gas mixture by bubbling using the scale-up equipment. <i>Applied Energy</i> , <b>2017</b> , 204, 1526-1534	10.7	31
153	Hydrate-based Capture of Acidic Gases for Clean Fuels with New Synergic Additives. <i>Energy Procedia</i> , <b>2017</b> , 105, 648-653	2.3	4
152	Experimental measurement and mathematical model of permeability with methane hydrate in quartz sands. <i>Applied Energy</i> , <b>2017</b> , 202, 282-292	10.7	67
151	Experimental Investigation into the Production Behavior of Methane Hydrate under Methanol Injection in Quartz Sand. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 5411-5418	4.1	43
150	Experimental Investigation on Cyclopentane-Methane Hydrate Formation Kinetics in Brine. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 824-830	4.1	5
149	Measurement of Permeability and Verification of Kozeny-Carman Equation Using Statistic Method. <i>Energy Procedia</i> , <b>2017</b> , 142, 4104-4109	2.3	11
148	Raman Spectroscopic Study on Hydrate-based Carbon Dioxide Separation from Fuel Gas in the Presence of THF. <i>Energy Procedia</i> , <b>2017</b> , 143, 540-546	2.3	4
147	Hydrate-based acidic gases capture for clean methane with new synergic additives. <i>Applied Energy</i> , <b>2017</b> , 207, 584-593	10.7	27



146	Experimental investigation of optimization of well spacing for gas recovery from methane hydrate reservoir in sandy sediment by heat stimulation. <i>Applied Energy</i> , <b>2017</b> , 207, 562-572	10.7	46
145	Experimental Investigation into Methane Hydrate Dissociation by Thermal Stimulation with Dual Vertical Well. <i>Energy Procedia</i> , <b>2017</b> , 105, 4738-4744	2.3	3
144	Huff and Puff Induced Hydrate Dissociation Above and Below the Phase Equilibrium Point with Low Gas Saturation. <i>Energy Procedia</i> , <b>2017</b> , 105, 4796-4801	2.3	0
143	Hydrate-based Methane Recovery from Coal Mine Methane Gas in Scale-up Equipment with Bubbling. <i>Energy Procedia</i> , <b>2017</b> , 105, 4983-4989	2.3	5
142	The effect of hydrate promoters on gas uptake. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 21769-21776	3.6	43
141	Carbon dioxide and sulfur dioxide capture from flue gas by gas hydrate based process. <i>Energy Procedia</i> , <b>2017</b> , 142, 3454-3459	2.3	4
140	Formation Behavior and Controlling Factor of Methane Hydrate in Porous Media. <i>Energy Procedia</i> , <b>2017</b> , 142, 4044-4049	2.3	3
139	Formation Behaviors of CO <sub>2</sub> Hydrate in Kaoline and Bentonite Clays with Partially Water Saturated. <i>Energy Procedia</i> , <b>2017</b> , 143, 547-552	2.3	5
138	Hydrate-based Synchronously Capture of CO <sub>2</sub> and H <sub>2</sub> S for Clean H <sub>2</sub> with New Synergic Additives. <i>Energy Procedia</i> , <b>2017</b> , 142, 3427-3432	2.3	4
137	Experimental Investigation on Sediment Deformation during Gas Hydrate Decomposition for Different Hydrate Reservoir Types. <i>Energy Procedia</i> , <b>2017</b> , 142, 4110-4116	2.3	7
136	Large Scale Experimental Evaluation to Methane Hydrate Dissociation below Quadruple Point by Depressurization Assisted with Heat Stimulation. <i>Energy Procedia</i> , <b>2017</b> , 142, 4117-4123	2.3	6
135	Raman Spectroscopic Studies on Microscopic Mechanism of CP - CH <sub>4</sub> Mixture Hydrate. <i>Energy Procedia</i> , <b>2017</b> , 142, 3264-3269	2.3	6
134	Numerical Investigation of the Production Behavior of Methane Hydrates under Depressurization Conditions Combined with Well-Wall Heating. <i>Energies</i> , <b>2017</b> , 10, 161	3.1	7
133	Methane Hydrate Formation in Marine Sediment from South China Sea with Different Water Saturations. <i>Energies</i> , <b>2017</b> , 10, 561	3.1	9
132	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> , <b>2016</b> , 32, 7975-84	4	37
131	Experimental and modeling analyses of scaling criteria for methane hydrate dissociation in sediment by depressurization. <i>Applied Energy</i> , <b>2016</b> , 181, 299-309	10.7	58
130	Formation of cyclopentane - methane hydrates in brine systems and characteristics of dissolved ions. <i>Applied Energy</i> , <b>2016</b> , 184, 482-490	10.7	4
129	Experimental study on sediment deformation during methane hydrate decomposition in sandy and silty clay sediments with a novel experimental apparatus. <i>Fuel</i> , <b>2016</b> , 182, 446-453	7.1	23

128	A pilot-scale study of gas production from hydrate deposits with two-spot horizontal well system. <i>Applied Energy</i> , <b>2016</b> , 176, 12-21	10.7	33
127	Hydrate dissociation induced by depressurization in conjunction with warm brine stimulation in cubic hydrate simulator with silica sand. <i>Applied Energy</i> , <b>2016</b> , 174, 181-191	10.7	64
126	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> , <b>2016</b> , 35, 1463-1471	4.6	21
125	Large Scale Experimental Investigation on Influences of Reservoir Temperature and Production Pressure on Gas Production from Methane Hydrate in Sandy Sediment. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 2760-2770	4.1	14
124	Review of natural gas hydrates as an energy resource: Prospects and challenges. <i>Applied Energy</i> , <b>2016</b> , 162, 1633-1652	10.7	912
123	Hydrate-based CO <sub>2</sub> capture and CH <sub>4</sub> purification from simulated biogas with synergic additives based on gas solvent. <i>Applied Energy</i> , <b>2016</b> , 162, 1153-1159	10.7	68
122	Decomposition conditions of methane hydrate in marine sediments from South China Sea. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 413, 110-115	2.5	22
121	Hydrate-based hydrogen purification from simulated syngas with synergic additives. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 2649-2659	6.7	22
120	Energy and entropy analyses of hydrate dissociation in different scales of hydrate simulator. <i>Energy</i> , <b>2016</b> , 102, 176-186	7.9	20
119	Effect of graphite nanoparticles on CO <sub>2</sub> hydrate phase equilibrium. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 414, 23-28	2.5	37
118	Large scale experimental evaluation to methane hydrate dissociation below quadruple point in sandy sediment. <i>Applied Energy</i> , <b>2016</b> , 162, 372-381	10.7	105
117	Phase equilibrium and Raman spectroscopic studies of semi-clathrate hydrates for methane, nitrogen and tetra-butyl-ammonium fluoride. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 413, 48-52	2.5	11
116	Evaluation of Gas Production from Marine Hydrate Deposits at the GMGS2-Site 8, Pearl River Mouth Basin, South China Sea. <i>Energies</i> , <b>2016</b> , 9, 222	3.1	22
115	Kinetic Study on the Process of Cyclopentane + Methane Hydrate Formation in NaCl Solution. <i>Energy &amp; Fuels</i> , <b>2016</b> ,	4.1	7
114	A novel method for evaluating effects of promoters on hydrate formation. <i>Energy</i> , <b>2016</b> , 102, 567-575	7.9	9
113	Investigation into gas production from natural gas hydrate: A review. <i>Applied Energy</i> , <b>2016</b> , 172, 286-322	10.7	334
112	Clathrate hydrate dissociation conditions and structure of the methane + cyclopentane + trimethylene sulfide hydrate in NaCl aqueous solution. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 425, 305-311	2.5	8
111	Numerical analysis of methane hydrate decomposition experiments by depressurization around freezing point in porous media. <i>Fuel</i> , <b>2015</b> , 159, 925-934	7.1	41

110	Investigation into optimization condition of thermal stimulation for hydrate dissociation in the sandy reservoir. <i>Applied Energy</i> , <b>2015</b> , 154, 995-1003	10.7	58
109	Experimental Investigation into the Combustion Characteristics of Propane Hydrates in Porous Media. <i>Energies</i> , <b>2015</b> , 8, 1242-1255	3.1	23
108	Effect of horizontal and vertical well patterns on methane hydrate dissociation behaviors in pilot-scale hydrate simulator. <i>Applied Energy</i> , <b>2015</b> , 145, 69-79	10.7	80
107	Effect of Hydrate Saturation on the Methane Hydrate Dissociation by Depressurization in Sediments in a Cubic Hydrate Simulator. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 2627-2637	3.9	23
106	Formation Kinetics of Cyclopentane + Methane Hydrates in Brine Water Systems and Raman Spectroscopic Analysis. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 6104-6110	4.1	21
105	Three dimensional experimental and numerical investigations into hydrate dissociation in sandy reservoir with dual horizontal wells. <i>Energy</i> , <b>2015</b> , 90, 836-845	7.9	32
104	Analytic modeling and large-scale experimental study of mass and heat transfer during hydrate dissociation in sediment with different dissociation methods. <i>Energy</i> , <b>2015</b> , 90, 1931-1948	7.9	84
103	Raman analysis on methane production from natural gas hydrate by carbon dioxide/methane replacement. <i>Energy</i> , <b>2015</b> , 79, 111-116	7.9	53
102	Evaluation of gas production from Qilian Mountain permafrost hydrate deposits in two-spot horizontal well system. <i>Cold Regions Science and Technology</i> , <b>2015</b> , 109, 87-98	3.8	39
101	Influence of Hydrate Saturation on Methane Hydrate Dissociation by Depressurization in Conjunction with Warm Water Stimulation in the Silica Sand Reservoir. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 7875-7884	4.1	10
100	Assessment of Gas Production Potential from Hydrate Reservoir in Qilian Mountain Permafrost Using Five-Spot Horizontal Well System. <i>Energies</i> , <b>2015</b> , 8, 10796-10817	3.1	17
99	Raman Spectroscopic Analysis on the Hydrate Formed in the Hydrate-Based Flue Gas Separation Process in Presence of Sulfur Dioxide and Tetra-n-butyl Ammonium Bromide. <i>Spectroscopy Letters</i> , <b>2015</b> , 48, 499-505	1.1	3
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97	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> , <b>2015</b> , 79, 315-324	7.9	77
96	Research progress on methane production from natural gas hydrates. <i>RSC Advances</i> , <b>2015</b> , 5, 54672-54699	3.9	74
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94	Research progress of hydrate-based CO <sub>2</sub> separation and capture from gas mixtures. <i>RSC Advances</i> , <b>2014</b> , 4, 18301-18316	3.7	135
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86	Methane hydrate dissociation using inverted five-spot water flooding method in cubic hydrate simulator. <i>Energy</i> , <b>2014</b> , 64, 298-306	7.9	72
85	Depressurization induced gas production from hydrate deposits with low gas saturation in a pilot-scale hydrate simulator. <i>Applied Energy</i> , <b>2014</b> , 129, 274-286	10.7	163
84	Experimental study on the hydrate dissociation in porous media by five-spot thermal huff and puff method. <i>Fuel</i> , <b>2014</b> , 117, 688-696	7.1	114
83	Hydrate-based Capture CO <sub>2</sub> and Purification CH <sub>4</sub> from Simulated Landfill Gas with Synergic Additives Based on Gas Solvent. <i>Energy Procedia</i> , <b>2014</b> , 61, 450-454	2.3	14
82	Study of Hydrate-Based Methane Separation from Coal-Bed Methane in Scale-up Equipment with Bubbling. <i>Energy Procedia</i> , <b>2014</b> , 61, 812-816	2.3	5
81	Numerical Investigation of Hydrate Dissociation Performance in the South China Sea with Different Horizontal Well Configurations. <i>Energies</i> , <b>2014</b> , 7, 4813-4834	3.1	34
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71	The use of dual horizontal wells in gas production from hydrate accumulations. <i>Applied Energy</i> , <b>2013</b> , 112, 1303-1310	10.7	45
70	CO <sub>2</sub> (carbon dioxide) separation from CO <sub>2</sub> H <sub>2</sub> (hydrogen) gas mixtures by gas hydrates in TBAB (tetra-n-butyl ammonium bromide) solution and Raman spectroscopic analysis. <i>Energy</i> , <b>2013</b> , 59, 719-725	7.9	96
69	Experimental investigation into methane hydrate production during three-dimensional thermal stimulation with five-spot well system. <i>Applied Energy</i> , <b>2013</b> , 110, 90-97	10.7	87
68	Experimental Investigation into Factors Influencing Methane Hydrate Formation and a Novel Method for Hydrate Formation in Porous Media. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 3751-3757	4.1	45
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65	Measurements of Water Permeability in Unconsolidated Porous Media with Methane Hydrate Formation. <i>Energies</i> , <b>2013</b> , 6, 3622-3636	3.1	56
64	Evolution of Hydrate Dissociation by Warm Brine Stimulation Combined Depressurization in the South China Sea. <i>Energies</i> , <b>2013</b> , 6, 5402-5425	3.1	34
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29	Evaluation of Alternative Horizontal Well Designs for Gas Production from Hydrate Deposits in the Shenhu Area, South China Sea <b>2010</b> ,		11
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5	Solubility in the Na <sub>2</sub> CO <sub>3</sub> + NaHCO <sub>3</sub> + Na <sub>2</sub> SO <sub>4</sub> + NaCl + H <sub>2</sub> O System and Its Subsystems at 150 °C. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1999</b> , 44, 813-819	2.8	7
4	A New Molecular Thermodynamic Model for Osmotic Pressures in Micelle and Oil/Water Microemulsion Systems with Nonionic and Ionic Surfactants. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 2817-2823	3.9	4
3	Studies on UNIQUAC and SAFT equations for nonionic surfactant solutions. <i>Fluid Phase Equilibria</i> , <b>1998</b> , 153, 215-229	2.5	25



2	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
1	Experimental Research on the Influence of Particle Size on Sand Production during Gas Hydrate Dissociation via Depressurization. <i>Energy &amp; Fuels</i> ,	4.1	1