

Yongchen Song

List of Publications by Year in descending order

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167
papers

5,491
citations

76294

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106281

65
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168
all docs

168
docs citations

168
times ranked

2979
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen production from the thermochemical conversion of biomass: issues and challenges. <i>Sustainable Energy and Fuels</i> , 2019, 3, 314-342.	2.5	224
2	Enhanced CH ₄ recovery and CO ₂ storage via thermal stimulation in the CH ₄ /CO ₂ replacement of methane hydrate. <i>Chemical Engineering Journal</i> , 2017, 308, 40-49.	6.6	207
3	Mechanical behavior of gas-saturated methane hydrate-bearing sediments. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5185-5194.	1.4	189
4	Numerical simulation of gas recovery from a low-permeability hydrate reservoir by depressurization. <i>Applied Energy</i> , 2019, 250, 7-18.	5.1	162
5	Highly Salt-Resistant 3D Hydrogel Evaporator for Continuous Solar Desalination via Localized Crystallization. <i>Advanced Functional Materials</i> , 2021, 31, 2104380.	7.8	122
6	Water Contact Angle Dependence with Hydroxyl Functional Groups on Silica Surfaces under CO ₂ Sequestration Conditions. <i>Environmental Science & Technology</i> , 2015, 49, 14680-14687.	4.6	115
7	Hydrate reformation characteristics in natural gas hydrate dissociation process: A review. <i>Applied Energy</i> , 2019, 256, 113878.	5.1	115
8	Flexible and Mildew-Resistant Wood-Derived Aerogel for Stable and Efficient Solar Desalination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28179-28187.	4.0	114
9	Effect of fuel origin on synergy during co-gasification of biomass and coal in CO ₂ . <i>Bioresource Technology</i> , 2016, 200, 789-794.	4.8	111
10	Highly Thermally Insulated and Superhydrophilic Corn Straw for Efficient Solar Vapor Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16503-16511.	4.0	108
11	Mechanical Characteristics of Hydrate-Bearing Sediment: A Review. <i>Energy & Fuels</i> , 2021, 35, 1041-1057.	2.5	108
12	A Review on Research on Replacement of CH ₄ in Natural Gas Hydrates by Use of CO ₂ . <i>Energies</i> , 2012, 5, 399-419.	1.6	107
13	Visualization and Measurement of CO ₂ Flooding in Porous Media Using MRI. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 4707-4715.	1.8	101
14	Mechanical behaviors of permafrost-associated methane hydrate-bearing sediments under different mining methods. <i>Applied Energy</i> , 2016, 162, 1627-1632.	5.1	101
15	Cementation Failure Behavior of Consolidated Gas Hydrate-Bearing Sand. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018623.	1.4	94
16	Microstructure Evolution of Hydrate-Bearing Sands During Thermal Dissociation and Ensued Impacts on the Mechanical and Seepage Characteristics. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019103.	1.4	90
17	A comparative analysis of the mechanical behavior of carbon dioxide and methane hydrate-bearing sediments. <i>American Mineralogist</i> , 2014, 99, 178-183.	0.9	88
18	Numerical modeling for the mechanical behavior of marine gas hydrate-bearing sediments during hydrate production by depressurization. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 971-982.	2.1	85

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19	Microstructure Observations of Natural Gas Hydrate Occurrence in Porous Media Using Microfocus X-ray Computed Tomography. <i>Energy & Fuels</i> , 2015, 29, 4835-4841.	2.5	81
20	Experimental research on the mechanical properties of methane hydrate-bearing sediments during hydrate dissociation. <i>Marine and Petroleum Geology</i> , 2014, 51, 70-78.	1.5	78
21	New Approach for Determining the Reaction Rate Constant of Hydrate Formation <i>via</i> X-ray Computed Tomography. <i>Journal of Physical Chemistry C</i> , 2021, 125, 42-48.	1.5	73
22	Behaviors of CO ₂ Hydrate Formation in the Presence of Acid-Dissolvable Organic Matters. <i>Environmental Science & Technology</i> , 2021, 55, 6206-6213.	4.6	70
23	The Controlling Factors and Ion Exclusion Mechanism of Hydrate-Based Pollutant Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7932-7940.	3.2	68
24	Hydrate-bearing sediment of the South China Sea: Microstructure and mechanical characteristics. <i>Engineering Geology</i> , 2022, 307, 106782.	2.9	67
25	Three-body aggregation of guest molecules as a key step in methane hydrate nucleation and growth. <i>Communications Chemistry</i> , 2022, 5, .	2.0	58
26	Organics-Coated Nanoclays Further Promote Hydrate Formation Kinetics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3464-3467.	2.1	57
27	Assessment of gas production from natural gas hydrate using depressurization, thermal stimulation and combined methods. <i>RSC Advances</i> , 2016, 6, 47357-47367.	1.7	56
28	Comparative analysis of the consolidation and shear behaviors of CH ₄ and CO ₂ hydrate-bearing silty sediments. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 75, 103157.	2.1	56
29	Effects of Additive Mixture (THF/SDS) on the Thermodynamic and Kinetic Properties of CO ₂ /H ₂ Hydrate in Porous Media. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4911-4918.	1.8	53
30	The effects of methane hydrate dissociation at different temperatures on the stability of porous sediments. <i>Journal of Petroleum Science and Engineering</i> , 2016, 147, 77-86.	2.1	53
31	Numerical Simulation of the Gas Production Behavior of Hydrate Dissociation by Depressurization in Hydrate-Bearing Porous Medium. <i>Energy & Fuels</i> , 2012, 26, 1681-1694.	2.5	52
32	Experimental Study of Conditions for Methane Hydrate Productivity by the CO ₂ Swap Method. <i>Energy & Fuels</i> , 2015, 29, 6887-6895.	2.5	52
33	Numerical Simulation of Methane Production from Hydrates Induced by Different Depressurizing Approaches. <i>Energies</i> , 2012, 5, 438-458.	1.6	49
34	A microfocus x-ray computed tomography based gas hydrate triaxial testing apparatus. <i>Review of Scientific Instruments</i> , 2019, 90, 055106.	0.6	49
35	Hydrate slurry flow characteristics influenced by formation, agglomeration and deposition in a fully visual flow loop. <i>Fuel</i> , 2020, 277, 118066.	3.4	48
36	In-situ visual observation for the formation and dissociation of methane hydrates in porous media by magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2015, 33, 485-490.	1.0	45

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37	Experimental measurements of mechanical properties of carbon dioxide hydrate-bearing sediments. <i>Marine and Petroleum Geology</i> , 2013, 46, 201-209.	1.5	44
38	Pore-scale 3D Morphological Modeling and Physical Characterization of Hydrate-bearing Sediment Based on Computed Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020570.	1.4	44
39	Characteristics of CO ₂ Hydrate Formation and Dissociation in Glass Beads and Silica Gel. <i>Energies</i> , 2012, 5, 925-937.	1.6	43
40	Visualization of CO ₂ and oil immiscible and miscible flow processes in porous media using NMR micro-imaging. <i>Petroleum Science</i> , 2011, 8, 183-193.	2.4	42
41	Hydrate-based heavy metal separation from aqueous solution. <i>Scientific Reports</i> , 2016, 6, 21389.	1.6	42
42	Strength behaviors of CH ₄ hydrate-bearing silty sediments during thermal decomposition. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 72, 103031.	2.1	41
43	Deformation behaviors of hydrate-bearing silty sediment induced by depressurization and thermal recovery. <i>Applied Energy</i> , 2020, 276, 115468.	5.1	40
44	Pressure and Temperature Dependence of Contact Angles for CO ₂ /Water/Silica Systems Predicted by Molecular Dynamics Simulations. <i>Energy & Fuels</i> , 2016, 30, 5027-5034.	2.5	39
45	Combined replacement and depressurization methane hydrate recovery method. <i>Energy Exploration and Exploitation</i> , 2016, 34, 129-139.	1.1	38
46	In Situ Local Contact Angle Measurement in a CO ₂ -Brine-Sand System Using Microfocused X-ray CT. <i>Langmuir</i> , 2017, 33, 3358-3366.	1.6	38
47	Analysis of the Physical Properties of Hydrate Sediments Recovered from the Pearl River Mouth Basin in the South China Sea: Preliminary Investigation for Gas Hydrate Exploitation. <i>Energies</i> , 2017, 10, 531.	1.6	37
48	Pure methane, carbon dioxide, and nitrogen adsorption on anthracite from China over a wide range of pressures and temperatures: experiments and modeling. <i>RSC Advances</i> , 2015, 5, 52612-52623.	1.7	35
49	Interfacial tension and contact angle measurements for the evaluation of CO ₂ -brine two-phase flow characteristics in porous media. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 1756-1762.	1.3	35
50	Experimental study on the mechanical properties of sediments containing CH ₄ and CO ₂ hydrate mixtures. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 32, 20-27.	2.1	35
51	Lattice Boltzmann Simulation of Growth and Deformation for a Rising Vapor Bubble Through Superheated Liquid. <i>Numerical Heat Transfer; Part A: Applications</i> , 2009, 55, 381-400.	1.2	34
52	Direct Observation of THF Hydrate Formation in Porous Microstructure Using Magnetic Resonance Imaging. <i>Energies</i> , 2012, 5, 898-910.	1.6	34
53	Effect of thermal formation/dissociation cycles on the kinetics of formation and pore-scale distribution of methane hydrates in porous media: a magnetic resonance imaging study. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1567-1583.	2.5	34
54	Analyzing the Process of Gas Production from Methane Hydrate via Nitrogen Injection. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7585-7592.	1.8	33

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55	Effect of Temperature on the Mechanical Properties of Hydrate-Bearing Sand under Different Confining Pressures. <i>Energy & Fuels</i> , 2021, 35, 4106-4117.	2.5	33
56	Quantifying the Role of Nanotubes in Nano:Nano Composite Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , 2018, 8, 1702364.	10.2	33
57	Evaluation of Gas Production from Methane Hydrate Sediments with Heat Transfer from Over-Underburden Layers. <i>Energy & Fuels</i> , 2015, 29, 1028-1039.	2.5	32
58	Triaxial tests on the overconsolidated methane hydrate-bearing clayey-silty sediments. <i>Journal of Petroleum Science and Engineering</i> , 2021, 206, 109035.	2.1	32
59	CO ₂ Hydrate Formation Characteristics in a Water/Brine-Saturated Silica Gel. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10753-10761.	1.8	31
60	Triboelectric Nanogenerator Powered Electrowetting-on-Dielectric Actuator for Concealed Aquatic Microbots. <i>ACS Nano</i> , 2020, 14, 15394-15402.	7.3	31
61	Quantitative determination of pore structure change and permeability estimation under hydrate phase transition by NMR. <i>AIChE Journal</i> , 2020, 66, e16859.	1.8	30
62	Gas Production Enhancement from a Multilayered Hydrate Reservoir in the South China Sea by Hydraulic Fracturing. <i>Energy & Fuels</i> , 2021, 35, 12104-12118.	2.5	30
63	Estimation of minimum miscibility pressure (MMP) of CO ₂ and liquid n-alkane systems using an improved MRI technique. <i>Magnetic Resonance Imaging</i> , 2016, 34, 97-104.	1.0	29
64	Permeability estimation of porous media by using an improved capillary bundle model based on micro-CT derived pore geometries. <i>Heat and Mass Transfer</i> , 2017, 53, 49-58.	1.2	29
65	Effects of water-gas two-phase flow on methane hydrate dissociation in porous media. <i>Fuel</i> , 2019, 255, 115637.	3.4	29
66	Magnetic resonance imaging study on near miscible supercritical CO ₂ flooding in porous media. <i>Physics of Fluids</i> , 2013, 25, .	1.6	28
67	Unstable Density-Driven Convection of CO ₂ in Homogeneous and Heterogeneous Porous Media With Implications for Deep Saline Aquifers. <i>Water Resources Research</i> , 2021, 57, e2020WR028132.	1.7	28
68	Formation of Methane Hydrate in Oil-Water Emulsion Governed by the Hydrophilic and Hydrophobic Properties of Non-Ionic Surfactants. <i>Energy & Fuels</i> , 2019, 33, 5777-5784.	2.5	27
69	Wettability of Supercritical CO ₂ -Brine-Mineral: The Effects of Ion Type and Salinity. <i>Energy & Fuels</i> , 2017, 31, 7317-7324.	2.5	26
70	In-situ observation for formation and dissociation of carbon dioxide hydrate in porous media by magnetic resonance imaging. <i>Science China Earth Sciences</i> , 2013, 56, 611-617.	2.3	25
71	Measurement of Interfacial Tension of CO ₂ and NaCl Aqueous Solution over Wide Temperature, Pressure, and Salinity Ranges. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 1036-1046.	1.0	25
72	Review: Approaches to research on CO ₂ /brine two-phase migration in saline aquifers. <i>Hydrogeology Journal</i> , 2015, 23, 1-18.	0.9	24

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73	Adsorption isotherms and kinetics of carbon dioxide on Chinese dry coal over a wide pressure range. <i>Adsorption</i> , 2015, 21, 53-65.	1.4	24
74	Analyzing spatially and temporally visualized formation behavior of methane hydrate in unconsolidated porous media. <i>Magnetic Resonance Imaging</i> , 2019, 61, 224-230.	1.0	23
75	In-situ observation for natural gas hydrate in porous medium: Water performance and formation characteristic. <i>Magnetic Resonance Imaging</i> , 2020, 65, 166-174.	1.0	23
76	Growth Kinetics and Gas Diffusion in Formation of Gas Hydrates from Ice. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12999-13007.	1.5	23
77	Mechanical behaviors of hydrate-bearing sediment with different cementation spatial distributions at microscales. <i>IScience</i> , 2021, 24, 102448.	1.9	23
78	Quantifying the dynamic density driven convection in high permeability packed beds. <i>Magnetic Resonance Imaging</i> , 2017, 39, 168-174.	1.0	22
79	CO ₂ sequestration in depleted methane hydrate deposits with excess water. <i>International Journal of Energy Research</i> , 2018, 42, 2536-2547.	2.2	21
80	Model Comparison of the CH ₄ /CO ₂ /Water System in Predicting Dynamic and Interfacial Properties. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 2464-2474.	1.0	21
81	A hydrate blockage detection apparatus for gas pipeline using ultrasonic focused transducer and its application on a flow loop. <i>Energy Science and Engineering</i> , 2020, 8, 1770-1780.	1.9	21
82	Minimum miscibility pressure estimation for a CO ₂ /n-decane system in porous media by X-ray CT. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	20
83	Creep Behaviors of Methane Hydrate-Bearing Frozen Sediments. <i>Energies</i> , 2019, 12, 251.	1.6	20
84	Adsorption isotherms and kinetic characteristics of methane on block anthracite over a wide pressure range. <i>Journal of Energy Chemistry</i> , 2015, 24, 245-256.	7.1	19
85	Pore-Scale Imaging and Analysis of Phase Topologies and Displacement Mechanisms for CO ₂ -Brine Two-Phase Flow in Unconsolidated Sand Packs. <i>Water Resources Research</i> , 2017, 53, 9127-9144.	1.7	19
86	Mechanical properties of methane hydrate-bearing sandy sediments under various temperatures and pore pressures. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109474.	2.1	19
87	CO ₂ /water two-phase flow in a two-dimensional micromodel of heterogeneous pores and throats. <i>RSC Advances</i> , 2016, 6, 73897-73905.	1.7	18
88	Displacement front behavior of near miscible CO ₂ flooding in decane saturated synthetic sandstone cores revealed by magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2017, 37, 171-178.	1.0	18
89	Forced Convection Heat Transfer in Porous Structure: Effect of Morphology on Pressure Drop and Heat Transfer Coefficient. <i>Journal of Thermal Science</i> , 2021, 30, 363-393.	0.9	18
90	Viscosity investigation on metastable hydrate suspension in oil-dominated systems. <i>Chemical Engineering Science</i> , 2021, 238, 116608.	1.9	18

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91	Molecular simulations on the stability and dynamics of bulk nanobubbles in aqueous environments. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 27533-27542.	1.3	18
92	Pore-scale contact angle measurements of CO ₂ brine-glass beads system using micro-focused X-ray computed tomography. <i>Micro and Nano Letters</i> , 2016, 11, 524-527.	0.6	17
93	Strength behaviours of methane hydrate-bearing marine sediments in the South China Sea. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 100, 104476.	2.1	17
94	A novel apparatus for <i>in situ</i> measurement of thermal conductivity of hydrate-bearing sediments. <i>Review of Scientific Instruments</i> , 2015, 86, 085110.	0.6	16
95	Investigation of the Stress-Strain and Strength Behaviors of Ice Containing Methane Hydrate. <i>Journal of Cold Regions Engineering - ASCE</i> , 2012, 26, 149-159.	0.5	15
96	Hydrate phase equilibrium for CH ₄ -CO ₂ -CH ₂ O system in porous media. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1592-1598.	0.9	15
97	Morphology-Based Kinetic Study of the Formation of Carbon Dioxide Hydrates with Promoters. <i>Energy & Fuels</i> , 2020, 34, 7307-7315.	2.5	15
98	Pore-scale investigation of effects of heterogeneity on CO ₂ geological storage using stratified sand packs. , 2017, 7, 972-987.		14
99	Creep behaviours of methane hydrate-bearing sediments. <i>Environmental Geotechnics</i> , 2022, 9, 199-209.	1.3	14
100	Strength Behaviors of Remolded Hydrate-Bearing Marine Sediments in Different Drilling Depths of the South China Sea. <i>Energies</i> , 2019, 12, 253.	1.6	14
101	Mechanical Characteristics of the Hydrate-Bearing Sediments in the South China Sea Using a Multistage Triaxial Loading Test. <i>Energy & Fuels</i> , 2021, 35, 4127-4137.	2.5	14
102	MXene (Ti ₃ C ₂ T _x) as a Promising Substrate for Methane Storage via Enhanced Gas Hydrate Formation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6622-6627.	2.1	14
103	A numerical investigation on the mechanical properties of hydrate-bearing sand using Distinct Element Method. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104328.	2.1	14
104	Density Measurement and PC-SAFT/tPC-PSAFT Modeling of the CO ₂ + H ₂ O System over a Wide Temperature Range. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1400-1410.	1.0	13
105	Review of Density Measurements and Predictions of CO ₂ -Alkane Solutions for Enhancing Oil Recovery. <i>Energy & Fuels</i> , 2021, 35, 2914-2935.	2.5	13
106	Effects of Halogen Ions on Phase Equilibrium of Methane Hydrate in Porous Media. <i>International Journal of Thermophysics</i> , 2012, 33, 821-830.	1.0	12
107	In situ measurement of the dispersion coefficient of liquid/supercritical CO ₂ -CH ₄ in a sandpack using CT. <i>RSC Advances</i> , 2016, 6, 42367-42376.	1.7	12
108	Strength and Deformation Behaviors of Methane Hydrate-Bearing Marine Sediments in the South China Sea during Depressurization. <i>Energy & Fuels</i> , 2021, 35, 14569-14579.	2.5	12

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109	Consolidation deformation of hydrate-bearing sediments: A pore-scale computed tomography investigation. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104184.	2.1	12
110	Permeability Analysis of Hydrate-Bearing Sediments during the Hydrate Formation Process. <i>Energy & Fuels</i> , 2021, 35, 19606-19613.	2.5	12
111	Analysis of the 3D zone of flow establishment from a ship's propeller. <i>KSCE Journal of Civil Engineering</i> , 2012, 16, 465-477.	0.9	11
112	Behavior of CO ₂ /water flow in porous media for CO ₂ geological storage. <i>Magnetic Resonance Imaging</i> , 2017, 37, 100-106.	1.0	11
113	Pressure pulse wave attenuation model coupling waveform distortion and viscous dissipation for blockage detection in pipeline. <i>Energy Science and Engineering</i> , 2020, 8, 260-265.	1.9	11
114	Behaviors of NaCl Ions Intruding into Methane Hydrate under a Static Electric Field. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18483-18493.	1.5	11
115	Stress behavior of hydrate-bearing sands with changing temperature and hydrate saturation. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 98, 104389.	2.1	11
116	Molecular dynamics simulation studies of cryoprotective agent solutions: the relation between melting temperature and the ratio of hydrogen bonding acceptor to donor number. <i>Molecular Physics</i> , 2009, 107, 673-684.	0.8	10
117	Measurements of CO ₂ and H ₂ O NaCl Solution Densities over a Wide Range of Temperatures, Pressures, and NaCl Concentrations. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 3342-3350.	1.0	10
118	Dynamic stability characteristics of fluid flow in CO ₂ miscible displacements in porous media. <i>RSC Advances</i> , 2015, 5, 34839-34853.	1.7	10
119	Characterization of dissolution process during brine injection in Berea sandstones: an experiment study. <i>RSC Advances</i> , 2016, 6, 114320-114328.	1.7	10
120	A rapid method for the measurement and estimation of CO ₂ diffusivity in liquid hydrocarbon-saturated porous media using MRI. <i>Magnetic Resonance Imaging</i> , 2016, 34, 437-441.	1.0	10
121	CO ₂ diffusion in n-hexadecane investigated using magnetic resonance imaging and pressure decay measurements. <i>RSC Advances</i> , 2014, 4, 50180-50187.	1.7	9
122	Application of X-ray CT investigation of CO ₂ brine flow in porous media. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	9
123	Competitive adsorption/desorption of CO ₂ /CH ₄ mixtures on anthracite from China over a wide range of pressures and temperatures. <i>RSC Advances</i> , 2016, 6, 98588-98597.	1.7	9
124	New model for particle removal from surface in presence of deformed liquid bridge. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 268-272.	5.0	9
125	Enhanced Mass Transfer by Density-Driven Convection during CO ₂ Geological Storage. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9300-9309.	1.8	9
126	A visualization study on two-phase gravity drainage in porous media by using magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2016, 34, 855-863.	1.0	8

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127	Effects of Multiple Factors on Methane Hydrate Reformation in a Porous Medium. <i>ChemistrySelect</i> , 2017, 2, 6030-6035.	0.7	8
128	Diffusion Properties for CO ₂ -Brine System under Sequestration-Related Pressures with Consideration of the Swelling Effect and Interfacial Area. <i>Industrial & Engineering Chemistry Research</i> , 0, , .	1.8	7
129	Equivalency and Replaceability between Different Permeability Models of Hydrate-Bearing Porous Media When Applied to Numerical Modeling of Hydrate Dissociation: Implications for Model Selection and Parameter Assignment. <i>Energy & Fuels</i> , 2021, 35, 6090-6100.	2.5	7
130	Molecular Insight into the Extraction Behaviors of Confined Heavy Oil in the Nanopore by CO ₂ /C ₃ H ₈ in Huff-n-Puff Process. <i>Energy & Fuels</i> , 2022, 36, 3062-3075.	2.5	7
131	Magnetically Recyclable SO ₃ ⁻ -Coated Nanoparticles Promote Gas Storage via Forming Hydrates. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33141-33150.	4.0	7
132	Hydrogen bonds at silica-CO ₂ saturated water interface under geologic sequestration conditions. <i>Molecular Physics</i> , 2016, 114, 2924-2935.	0.8	6
133	Solar radiation transfer and performance analysis for a low concentrating photovoltaic/thermal system. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 263-270.	1.3	6
134	Experimental study of two-phase flow properties of CO ₂ containing N ₂ in porous media. <i>RSC Advances</i> , 2016, 6, 59360-59369.	1.7	6
135	Density Measurement and Modeling of CO ₂ -Brine System at Temperature and Pressure Corresponding to Storage Conditions. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 873-880.	1.0	6
136	Dynamic Adsorption of CO ₂ in Different Sized Shale Organic Pores Using Molecular Dynamic Simulations under Various Pressures. <i>Energy & Fuels</i> , 2021, 35, 15950-15961.	2.5	6
137	Experimental Study on the Density-Driven Convective Mixing of CO ₂ and Brine at Reservoir Temperature and Pressure Conditions. <i>Energy & Fuels</i> , 2022, 36, 10261-10268.	2.5	6
138	Study of the fluid flow characteristics in a porous medium for CO ₂ geological storage using MRI. <i>Magnetic Resonance Imaging</i> , 2014, 32, 574-584.	1.0	5
139	MRI investigation of water-oil two phase flow in straight capillary, bifurcate channel and monolayered glass bead pack. <i>Magnetic Resonance Imaging</i> , 2015, 33, 918-926.	1.0	5
140	Visualization of asphaltene deposition effects on porosity and permeability during CO ₂ flooding in porous media. <i>Journal of Visualization</i> , 2016, 19, 603-614.	1.1	5
141	Magnetic-resonance imaging and simplified Kozeny-Carman-model analysis of glass-bead packs as a frame of reference to study permeability of reservoir rocks. <i>Hydrogeology Journal</i> , 2017, 25, 1465-1476.	0.9	5
142	Visualization study on the promotion of depressurization and water flow erosion for gas hydrate production. <i>Energy Procedia</i> , 2019, 158, 5563-5568.	1.8	5
143	Effects of Pore Structures on Seepage and Dispersion Characteristics during CO ₂ Miscible Displacements in Unconsolidated Cores. <i>Energy & Fuels</i> , 0, , .	2.5	5
144	Evidence of Guest-Guest Interaction in Clathrates Based on <i>In Situ</i> Raman Spectroscopy and Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 400-405.	2.1	5

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145	Molecular behavior of hybrid gas hydrate nucleation: separation of soluble H ₂ S from mixed gas. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 9509-9520.	1.3	5
146	Fractal dimension analysis on pore structure of artificial cores using magnetic resonance imaging. , 2012, , .		4
147	Experimental investigation on spontaneous counter-current imbibition in water-wet natural reservoir sandstone core using MRI. <i>Magnetic Resonance in Chemistry</i> , 2017, 55, 546-552.	1.1	4
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