List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The status of natural gas hydrate research in China: A review. Renewable and Sustainable Energy Reviews, 2014, 31, 778-791.	8.2	235
2	Effects of dissociation on the shear strength and deformation behavior of methane hydrate-bearing sediments. Marine and Petroleum Geology, 2014, 51, 52-62.	1.5	191
3	Mechanical behavior of gasâ€saturated methane hydrateâ€bearing sediments. Journal of Geophysical Research: Solid Earth, 2013, 118, 5185-5194.	1.4	189
4	Numerical simulation of gas recovery from a low-permeability hydrate reservoir by depressurization. Applied Energy, 2019, 250, 7-18.	5.1	162
5	Analysis of the effect of particle size on permeability in hydrate-bearing porous media using pore network models combined with CT. Fuel, 2016, 163, 34-40.	3.4	132
6	Analyzing the effects of inhomogeneity on the permeability of porous media containing methane hydrates through pore network models combined with CT observation. Energy, 2018, 163, 27-37.	4.5	123
7	Numerical simulation of gas production from hydrate deposits using a single vertical well by depressurization in the Qilian Mountain permafrost, Qinghai-Tibet Plateau, China. Energy, 2013, 52, 308-319.	4.5	117
8	Permeability of laboratory-formed porous media containing methane hydrate: Observations using X-ray computed tomography and simulations with pore network models. Fuel, 2015, 145, 170-179.	3.4	113
9	Mechanical Characteristics of Hydrate-Bearing Sediment: A Review. Energy & Fuels, 2021, 35, 1041-1057.	2.5	108
10	Mechanical behaviors of permafrost-associated methane hydrate-bearing sediments under different mining methods. Applied Energy, 2016, 162, 1627-1632.	5.1	101
11	The status of exploitation techniques of natural gas hydrate. Chinese Journal of Chemical Engineering, 2019, 27, 2133-2147.	1.7	98
12	Cementation Failure Behavior of Consolidated Gas Hydrateâ€Bearing Sand. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018623.	1.4	94
13	Microstructure Evolution of Hydrateâ€Bearing Sands During Thermal Dissociation and Ensued Impacts on the Mechanical and Seepage Characteristics. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019103.	1.4	90
14	A comparative analysis of the mechanical behavior of carbon dioxide and methane hydrate-bearing sediments. American Mineralogist, 2014, 99, 178-183.	0.9	88
15	Experimental study on the effect of methane hydrate decomposition on gas phase permeability of clayey sediments. Applied Energy, 2018, 230, 1304-1310.	5.1	86
16	Numerical modeling for the mechanical behavior of marine gas hydrate-bearing sediments during hydrate production by depressurization. Journal of Petroleum Science and Engineering, 2019, 177, 971-982.	2.1	85
17	Microstructure Observations of Natural Gas Hydrate Occurrence in Porous Media Using Microfocus X-ray Computed Tomography. Energy & Fuels, 2015, 29, 4835-4841.	2.5	81
18	Triaxial experiments on the mechanical properties of hydrate-bearing marine sediments of South China Sea. Marine and Petroleum Geology, 2016, 77, 507-514.	1.5	79

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19	Experimental research on the mechanical properties of methane hydrate-bearing sediments during hydrate dissociation. Marine and Petroleum Geology, 2014, 51, 70-78.	1.5	78
20	Undrained triaxial tests on water-saturated methane hydrate–bearing clayey-silty sediments of the South China Sea. Canadian Geotechnical Journal, 2021, 58, 351-366.	1.4	78
21	Experimental study on mechanical properties of gas hydrate-bearing sediments using kaolin clay. China Ocean Engineering, 2011, 25, 113-122.	0.6	72
22	Mechanical property of artificial methane hydrate under triaxial compression. Journal of Natural Gas Chemistry, 2010, 19, 246-250.	1.8	70
23	Effect of methane hydrate dissociation and reformation on the permeability of clayey sediments. Applied Energy, 2020, 261, 114479.	5.1	68
24	Hydrate-bearing sediment of the South China Sea: Microstructure and mechanical characteristics. Engineering Geology, 2022, 307, 106782.	2.9	67
25	Experimental study on the gas phase permeability of methane hydrate-bearing clayey sediments. Journal of Natural Gas Science and Engineering, 2016, 36, 378-384.	2.1	64
26	The effects of compressibility of natural gas hydrate-bearing sediments on gas production using depressurization. Energy, 2019, 185, 837-846.	4.5	64
27	Analyses of stress strain behavior and constitutive model of artificial methane hydrate. Journal of Petroleum Science and Engineering, 2011, 77, 183-188.	2.1	63
28	Comparative analysis of the consolidation and shear behaviors of CH4 and CO2 hydrate-bearing silty sediments. Journal of Natural Gas Science and Engineering, 2020, 75, 103157.	2.1	56
29	The effects of methane hydrate dissociation at different temperatures on the stability of porous sediments. Journal of Petroleum Science and Engineering, 2016, 147, 77-86.	2.1	53
30	Physical and mechanical properties of the overburden layer on gas hydrate-bearing sediments of the South China sea. Journal of Petroleum Science and Engineering, 2020, 189, 107020.	2.1	53
31	The seepage characteristics of methane hydrate-bearing clayey sediments under various pressure gradients. Energy, 2020, 191, 116507.	4.5	52
32	Experimental study on the gas phase permeability of montmorillonite sediments in the presence of hydrates. Marine and Petroleum Geology, 2018, 91, 373-380.	1.5	51
33	Numerical Simulation of Methane Production from Hydrates Induced by Different Depressurizing Approaches. Energies, 2012, 5, 438-458.	1.6	49
34	Experimental Research on the Mechanical Properties of Methane Hydrate-Ice Mixtures. Energies, 2012, 5, 181-192.	1.6	49
35	A microfocus x-ray computed tomography based gas hydrate triaxial testing apparatus. Review of Scientific Instruments, 2019, 90, 055106.	0.6	49
36	Analysis of the influence of wettability on permeability in hydrate-bearing porous media using pore network models combined with computed tomography. Journal of Natural Gas Science and Engineering, 2015, 26, 1372-1379.	2.1	48

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37	In-situ visual observation for the formation and dissociation of methane hydrates in porous media by magnetic resonance imaging. Magnetic Resonance Imaging, 2015, 33, 485-490.	1.0	45
38	Experimental measurements of mechanical properties of carbon dioxide hydrate-bearing sediments. Marine and Petroleum Geology, 2013, 46, 201-209.	1.5	44
39	Effect of sediment particle size on the mechanical properties of CH4 hydrate-bearing sediments. Journal of Petroleum Science and Engineering, 2018, 171, 302-314.	2.1	44
40	Mechanical behaviours of gas-hydrate-bearing clayey sediments of the South China Sea. Environmental Geotechnics, 2022, 9, 210-222.	1.3	44
41	Poreâ€Scale 3D Morphological Modeling and Physical Characterization of Hydrateâ€Bearing Sediment Based on Computed Tomography. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020570.	1.4	44
42	Hydrate-based heavy metal separation from aqueous solution. Scientific Reports, 2016, 6, 21389.	1.6	42
43	Strength behaviors of CH4 hydrate-bearing silty sediments during thermal decomposition. Journal of Natural Gas Science and Engineering, 2019, 72, 103031.	2.1	41
44	A new strength criterion and constitutive model of gas hydrate-bearing sediments under high confining pressures. Journal of Petroleum Science and Engineering, 2013, 109, 45-50.	2.1	40
45	Deformation behaviors of hydrate-bearing silty sediment induced by depressurization and thermal recovery. Applied Energy, 2020, 276, 115468.	5.1	40
46	Rheology of methane hydrate slurries formed from water-in-oil emulsion with different surfactants concentrations. Fuel, 2020, 275, 117961.	3.4	38
47	Methane recovery and carbon dioxide storage from gas hydrates in fine marine sediments by using CH4/CO2 replacement. Chemical Engineering Journal, 2021, 425, 131562.	6.6	37
48	Experimental study on the mechanical properties of sediments containing CH4 and CO2 hydrate mixtures. Journal of Natural Gas Science and Engineering, 2016, 32, 20-27.	2.1	35
49	Numerical study of gas production from marine hydrate formations considering soil compression and hydrate dissociation due to depressurization. Marine and Petroleum Geology, 2019, 102, 759-774.	1.5	34
50	Effect of Temperature on the Mechanical Properties of Hydrate-Bearing Sand under Different Confining Pressures. Energy & Fuels, 2021, 35, 4106-4117.	2.5	33
51	Analysis of the mechanical properties of methane hydrate-bearing sands with various pore pressures and confining pressures. Journal of Natural Gas Science and Engineering, 2021, 87, 103786.	2.1	33
52	Influence factors of methane hydrate formation from ice: Temperature, pressure and SDS surfactant. Chinese Journal of Chemical Engineering, 2019, 27, 405-410.	1.7	32
53	Triaxial tests on the overconsolidated methane hydrate-bearing clayey-silty sediments. Journal of Petroleum Science and Engineering, 2021, 206, 109035.	2.1	32
54	Effect of confining pressure on mechanical behavior of methane hydrate-bearing sediments. Petroleum Exploration and Development, 2011, 38, 637-640.	3.0	31

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55	In situ observation of gas hydrates growth hosted in porous media. Chemical Physics Letters, 2014, 612, 124-128.	1.2	31
56	CO ₂ Hydrate Formation Characteristics in a Water/Brine-Saturated Silica Gel. Industrial & Engineering Chemistry Research, 2014, 53, 10753-10761.	1.8	31
57	Aggregation Behavior of Asphalt on the Natural Gas Hydrate Surface with Different Surfactant Coverages. Journal of Physical Chemistry C, 2021, 125, 16378-16390.	1.5	28
58	Formation of Methane Hydrate in Oil–Water Emulsion Governed by the Hydrophilic and Hydrophobic Properties of Non-Ionic Surfactants. Energy & Fuels, 2019, 33, 5777-5784.	2.5	27
59	Comprehensive review of geomechanical constitutive models of gas hydrate-bearing sediments. Journal of Natural Gas Science and Engineering, 2021, 88, 103755.	2.1	27
60	Numerical studies of hydrate dissociation and gas production behavior in porous media during depressurization process. Journal of Natural Gas Chemistry, 2012, 21, 381-392.	1.8	25
61	Triaxial Tests on Water-Saturated Gas Hydrate-Bearing Fine-Grained Samples of the South China Sea under Different Drainage Conditions. Energy & Fuels, 2021, 35, 4118-4126.	2.5	24
62	Mechanical behaviors of hydrate-bearing sediment with different cementation spatial distributions at microscales. IScience, 2021, 24, 102448.	1.9	23
63	Gas production from different classes of methane hydrate deposits by the depressurization method. International Journal of Energy Research, 2019, 43, 5493-5505.	2.2	21
64	Creep Behaviors of Methane Hydrate-Bearing Frozen Sediments. Energies, 2019, 12, 251.	1.6	20
65	Adsorption isotherms and kinetic characteristics of methane on block anthracite over a wide pressure range. Journal of Energy Chemistry, 2015, 24, 245-256.	7.1	19
66	Experimental study on the permeability of methane hydrate-bearing sediments during triaxial loading. Journal of Natural Gas Science and Engineering, 2020, 82, 103510.	2.1	19
67	Mechanical properties of methane hydrate-bearing sandy sediments under various temperatures and pore pressures. Journal of Petroleum Science and Engineering, 2022, 208, 109474.	2.1	19
68	Viscosity investigation on metastable hydrate suspension in oil-dominated systems. Chemical Engineering Science, 2021, 238, 116608.	1.9	18
69	Experimental Study on the Gas Permeability of Marine Sediments with Various Hydrate Saturations and Effective Stresses. Energy & Fuels, 2021, 35, 17479-17489.	2.5	18
70	Hydrate phase equilibrium measurements for (THF+SDS+CO2+N2) aqueous solution systems in porous media. Fluid Phase Equilibria, 2014, 370, 12-18.	1.4	17
71	Creep behaviors of methane hydrate coexisting with ice. Journal of Natural Gas Science and Engineering, 2016, 33, 347-354.	2.1	16
72	Investigation of the Stress–Strain and Strength Behaviors of Ice Containing Methane Hydrate. Journal of Cold Regions Engineering - ASCE, 2012, 26, 149-159.	0.5	15

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73	Mechanical Behaviors of Methane Hydrate-Bearing Sediments Using Montmorillonite Clay. Energy Procedia, 2019, 158, 5281-5286.	1.8	15
74	Creep behaviours of methane hydrate-bearing sediments. Environmental Geotechnics, 2022, 9, 199-209.	1.3	14
75	Strength Behaviors of Remolded Hydrate-Bearing Marine Sediments in Different Drilling Depths of the South China Sea. Energies, 2019, 12, 253.	1.6	14
76	Mechanical Characteristics of the Hydrate-Bearing Sediments in the South China Sea Using a Multistage Triaxial Loading Test. Energy & Fuels, 2021, 35, 4127-4137.	2.5	14
77	A numerical investigation on the mechanical properties of hydrate-bearing sand using Distinct Element Method. Journal of Natural Gas Science and Engineering, 2021, 96, 104328.	2.1	14
78	Influence of grain size distribution on the physical characteristics of cementing hydrate-bearing sediment. Energy Reports, 2021, 7, 8187-8197.	2.5	13
79	Dynamic strength characteristics of methane hydrate-bearing sediments under seismic load. Journal of Natural Gas Science and Engineering, 2015, 26, 608-616.	2.1	12
80	Consolidation deformation of hydrate-bearing sediments: A pore-scale computed tomography investigation. Journal of Natural Gas Science and Engineering, 2021, 95, 104184.	2.1	12
81	Permeability Analysis of Hydrate-Bearing Sediments during the Hydrate Formation Process. Energy & Fuels, 2021, 35, 19606-19613.	2.5	12
82	Effect of Hydrate Distribution on the Mechanical Response of Hydrate-Bearing Sand: Discrete Element Method Simulation. Energy & Fuels, 2022, 36, 3802-3815.	2.5	12
83	Review on Carbon Dioxide Replacement of Natural Gas Hydrate: Research Progress and Perspectives. Energy & Fuels, 2022, 36, 7321-7336.	2.5	12
84	Stress dependence of the gas permeability of montmorillonite sediments in the presence of methane hydrate. Journal of Petroleum Science and Engineering, 2022, 208, 109697.	2.1	11
85	Permeability analysis of gas hydrate-bearing sand/clay mixed sediments using effective stress laws. Journal of Natural Gas Science and Engineering, 2022, 97, 104376.	2.1	11
86	Stress behavior of hydrate-bearing sands with changing temperature and hydrate saturation. Journal of Natural Gas Science and Engineering, 2022, 98, 104389.	2.1	11
87	Experimental Study on the Mechanical Properties of CH4 and CO2 Hydrate Remodeling Cores in Qilian Mountain. Energies, 2017, 10, 2078.	1.6	10
88	Rheological Properties of Hydrate Slurry Formed from Mudflows in South China Sea. Energy & Fuels, 2021, 35, 10575-10583.	2.5	10
89	Permeability analysis of hydrate-bearing sediments considering the effect of phase transition during the hydrate dissociation process. Journal of Natural Gas Science and Engineering, 2022, 97, 104337.	2.1	10
90	Influence of Porous Media on Methane Hydrate Formation from Ice Powders. Energy Procedia, 2017, 105, 224-229.	1.8	9

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91	Modeling Gas Hydrate Formation from Ice Powders Based on Diffusion Theory. Theoretical Foundations of Chemical Engineering, 2019, 53, 305-317.	0.2	8
92	Study of the Physical Characteristics of a Pore-Filling Hydrate Reservoir: Particle Shape Effect. Energy & Fuels, 2021, 35, 15502-15512.	2.5	7
93	Study on Shear Strength of Artificial Methane Hydrate. , 2010, , .		6
94	Effects of Different Mining Methods on the Strength Behavior of Gas Hydrate-Bearing Sediments. Energy Procedia, 2014, 61, 547-551.	1.8	6
95	Effect of brine salinity on the rheological properties of hydrate-in-oil slurries. Journal of Petroleum Science and Engineering, 2022, 208, 109756.	2.1	6
96	Experimental Study on the Difference of Fluid Flow between Methane Hydrate-Bearing Sand and Clay Sediments. Energy & Fuels, 2022, 36, 2739-2750.	2.5	6
97	Deformation behaviors of hydrate-bearing silty sediments during CH4–CO2 replacement. Journal of Petroleum Science and Engineering, 2022, 211, 110225.	2.1	5
98	The Study of Flow Characteristics During the Decomposition Process in Hydrate-Bearing Porous Media Using Magnetic Resonance Imaging. Energies, 2019, 12, 1736.	1.6	4
99	Influence of Particle Size Distribution on the Physical Characteristics of Pore-Filling Hydrate-Bearing Sediment. Geofluids, 2021, 2021, 1-13.	0.3	4
100	Mechanical Properties of Methane Hydrate Interbedded with Clayey Sediments. Journal of Energy and Natural Resources, 2018, 7, 24.	0.2	4
101	Drucker-Prager elasto-plastic constitutive model for methane hydrate-bearing sediment. Transactions of Tianjin University, 2016, 22, 441-450.	3.3	3
102	Hydrogen bonds and hydrate interaction between RiAFP and water revealed by molecular dynamics simulations. Chemical Physics, 2020, 538, 110860.	0.9	3
103	Fast Peelâ€Off Ultrathin, Transparent, and Freeâ€Standing Films Assembled from Lowâ€Dimensional Materials Using MXene Sacrificial Layers and Produced Bubbles. Small Methods, 2021, , 2101388.	4.6	3
104	Effects of Porosity on the Creep Behavior of Hydrate-Bearing Sediments. , 2012, , .		1
105	Mechanical Properties of Stratified Hydrate-bearing Sediments. Energy Procedia, 2017, 105, 200-205.	1.8	0