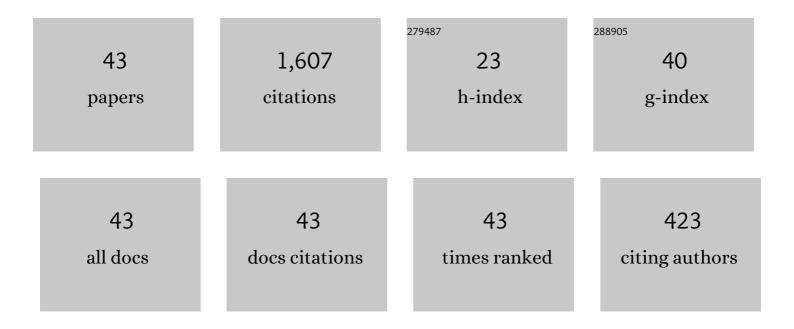
Xiang Sun

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mechanical behaviours of gas-hydrate-bearing clayey sediments of the South China Sea. Environmental Geotechnics, 2022, 9, 210-222.	1.3	44
2	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
3	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
4	Deformation behaviors of hydrate-bearing silty sediments during CH4–CO2 replacement. Journal of Petroleum Science and Engineering, 2022, 211, 110225.	2.1	5
5	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
6	Hydrate-bearing sediment of the South China Sea: Microstructure and mechanical characteristics. Engineering Geology, 2022, 307, 106782.	2.9	67
7	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
8	Comprehensive review of geomechanical constitutive models of gas hydrate-bearing sediments. Journal of Natural Gas Science and Engineering, 2021, 88, 103755.	2.1	27
9	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
10	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
11	Effect of Temperature on the Mechanical Properties of Hydrate-Bearing Sand under Different Confining Pressures. Energy & Fuels, 2021, 35, 4106-4117.	2.5	33
12	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
13	Experimental Study on Mechanical Properties of Hydrate-Bearing Sand: The Influence of Sand-Water Mixing Methods. Energies, 2021, 14, 2554.	1.6	7
14	Mechanical behaviors of hydrate-bearing sediment with different cementation spatial distributions at microscales. IScience, 2021, 24, 102448.	1.9	23
15	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
16	Influence of grain size distribution on the physical characteristics of cementing hydrate-bearing sediment. Energy Reports, 2021, 7, 8187-8197.	2.5	13
17	Study of the Physical Characteristics of a Pore-Filling Hydrate Reservoir: Particle Shape Effect. Energy & Fuels, 2021, 35, 15502-15512.	2.5	7
18	Triaxial tests on the overconsolidated methane hydrate-bearing clayey-silty sediments. Journal of Petroleum Science and Engineering, 2021, 206, 109035.	2.1	32

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19	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
20	Mechanical Characteristics of Hydrate-Bearing Sediment: A Review. Energy & Fuels, 2021, 35, 1041-1057.	2.5	108
21	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
22	Cementation Failure Behavior of Consolidated Gas Hydrateâ€Bearing Sand. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018623.	1.4	94
23	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
24	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
25	Effects of far-field boundary conditions on the simulation of hydrate production. Environmental Geotechnics, 2020, , 1-10.	1.3	1
26	Deformation behaviors of hydrate-bearing silty sediment induced by depressurization and thermal recovery. Applied Energy, 2020, 276, 115468.	5.1	40
27	The effects of compressibility of natural gas hydrate-bearing sediments on gas production using depressurization. Energy, 2019, 185, 837-846.	4.5	64
28	Strength behaviors of CH4 hydrate-bearing silty sediments during thermal decomposition. Journal of Natural Gas Science and Engineering, 2019, 72, 103031.	2.1	41
29	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
30	A microfocus x-ray computed tomography based gas hydrate triaxial testing apparatus. Review of Scientific Instruments, 2019, 90, 055106.	0.6	49
31	Numerical simulation of gas recovery from a low-permeability hydrate reservoir by depressurization. Applied Energy, 2019, 250, 7-18.	5.1	162
32	Creep Behaviors of Methane Hydrate-Bearing Frozen Sediments. Energies, 2019, 12, 251.	1.6	20
33	Strength Behaviors of Remolded Hydrate-Bearing Marine Sediments in Different Drilling Depths of the South China Sea. Energies, 2019, 12, 253.	1.6	14
34	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
35	Generalized stress framework for unsaturated soil: demonstration and discussion. Acta Geotechnica, 2019, 14, 1459-1481.	2.9	16
36	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

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37	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
38	A coupled thermal–hydraulic–mechanical–chemical (THMC) model for methane hydrate bearing sediments using COMSOL Multiphysics. Journal of Zhejiang University: Science A, 2018, 19, 600-623.	1.3	62
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	Experimental Study on the Mechanical Properties of CH4 and CO2 Hydrate Remodeling Cores in Qilian Mountain. Energies, 2017, 10, 2078.	1.6	10
41	A Method for Directly Measuring the Hydraulic Conductivity of Unsaturated Soil. Geotechnical Testing Journal, 2017, 40, 907-916.	0.5	14
42	Drucker-Prager elasto-plastic constitutive model for methane hydrate-bearing sediment. Transactions of Tianjin University, 2016, 22, 441-450.	3.3	3
43	A thermodynamics-based critical state constitutive model for methane hydrate bearing sediment. Journal of Natural Gas Science and Engineering, 2015, 27, 1024-1034.	2.1	39