

Jaewon Jang

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,878
citations

393982

19
h-index

525886

27
g-index

34
all docs

34
docs citations

34
times ranked

1309
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical properties of hydrate-bearing sediments. <i>Reviews of Geophysics</i> , 2009, 47, .	9.0	746
2	Impact of hydrate saturation on water permeability in hydrate-bearing sediments. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 696-703.	2.1	113
3	Gas Production from Hydrate-Bearing Sediments: The Role of Fine Particles. <i>Energy & Fuels</i> , 2012, 26, 480-487.	2.5	111
4	Effect of hydrate nucleation mechanisms and capillarity on permeability reduction in granular media. <i>Geophysical Research Letters</i> , 2016, 43, 9018-9025.	1.5	101
5	The water retention curve and relative permeability for gas production from hydrate-bearing sediments: pore-network model simulation. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3099-3110.	1.0	96
6	Hydraulic conductivity in spatially varying media-a pore-scale investigation. <i>Geophysical Journal International</i> , 2011, 184, 1167-1179.	1.0	70
7	The effect of hydrate saturation on water retention curves in hydrate-bearing sediments. <i>Geophysical Research Letters</i> , 2016, 43, 4279-4287.	1.5	70
8	Evolution of gas saturation and relative permeability during gas production from hydrate-bearing sediments: Gas invasion vs. gas nucleation. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 116-126.	1.4	68
9	Relative water and gas permeability for gas production from hydrate-bearing sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2346-2353.	1.0	53
10	Hydrate bearing clayey sediments: Formation and gas production concepts. <i>Marine and Petroleum Geology</i> , 2016, 77, 235-246.	1.5	51
11	Assessing the Kinetics and Pore-Scale Characteristics of Biological Calcium Carbonate Precipitation in Porous Media using a Microfluidic Chip Experiment. <i>Water Resources Research</i> , 2020, 56, e2019WR025420.	1.7	51
12	Effect of capillary and viscous force on CO ₂ saturation and invasion pattern in the microfluidic chip. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1634-1647.	1.4	48
13	Gas Bubble Migration and Trapping in Porous Media: Pore-Scale Simulation. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1060-1071.	1.4	48
14	Recoverable gas from hydrate-bearing sediments: Pore network model simulation and macroscale analyses. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	46
15	Sustainable development and energy geotechnology – Potential roles for geotechnical engineering. <i>KSCE Journal of Civil Engineering</i> , 2011, 15, 611-621.	0.9	41
16	Near-surface soil stabilization by enzyme-induced carbonate precipitation for fugitive dust suppression. <i>Acta Geotechnica</i> , 2020, 15, 1967-1980.	2.9	31
17	The impact of fluid flow on force chains in granular media. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	24
18	Hydraulic Properties of Porous Media Saturated with Nanoparticle-Stabilized Air-Water Foam. <i>Sustainability</i> , 2016, 8, 1317.	1.6	22

#	ARTICLE	IF	CITATIONS
19	Capillary pressure at irregularly shaped pore throats: Implications for water retention characteristics. <i>Advances in Water Resources</i> , 2017, 110, 51-58.	1.7	21
20	Fines adsorption on nanoparticle-coated surface. <i>Acta Geotechnica</i> , 2018, 13, 219-226.	2.9	16
21	Ground Collapse in EPB shield TBM site: A case study of railway tunnels in the deltaic region near Nak-Dong River in Korea. <i>Tunnelling and Underground Space Technology</i> , 2022, 120, 104274.	3.0	9
22	Interfacial tension and contact angle in CO ₂ -water/nanofluid-quartz system. , 2018, 8, 734-746.		7
23	Pore-scale swelling mechanism of magnesium oxide granules during hydration. <i>Construction and Building Materials</i> , 2020, 251, 119101.	3.2	7
24	Impact of Pore-Scale Characteristics on Immiscible Fluid Displacement. <i>Geofluids</i> , 2020, 2020, 1-10.	0.3	6
25	Energy geotechnology. , 2010, , 33-50.		6
26	Effect of clogging and cleaning on the permeability of pervious block pavements. <i>International Journal of Pavement Engineering</i> , 2022, 23, 3147-3156.	2.2	5
27	Characterization of orthotropic nature of cleavage planes in granitic rock. <i>Engineering Geology</i> , 2020, 265, 105432.	2.9	4
28	Effect of input signal type and time delay in sensors on wave velocity in rock specimens. <i>Engineering Geology</i> , 2019, 260, 105225.	2.9	3
29	Water and Gas Flows in Hydrate-Bearing Sediments. , 2017, , .		2
30	The Soil Water Characteristic Curve for 3D Printed Soil Samples. , 2018, , .		0
31	Water Permeability Reduction in THF Hydrate-Bearing Sediments. <i>Sustainable Civil Infrastructures</i> , 2019, , 227-237.	0.1	0
32	Gas Bubble Nucleation and Migration in Soils' Pore-Network Model Simulation. <i>Sustainable Civil Infrastructures</i> , 2019, , 27-37.	0.1	0
33	The Behavior of Expansive Particle Packing – DEM Simulation Using PFC3D Code. <i>Lecture Notes in Civil Engineering</i> , 2020, , 1061-1064.	0.3	0