

Joo Yong Lee

List of Publications by Year in descending order

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42
papers

1,502
citations

331670

21
h-index

302126

39
g-index

42
all docs

42
docs citations

42
times ranked

961
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-efficient natural gas hydrate production using gas exchange. <i>Applied Energy</i> , 2016, 162, 114-130.	10.1	207
2	Scientific results of the Second Gas Hydrate Drilling Expedition in the Ulleung Basin (UBGH2). <i>Marine and Petroleum Geology</i> , 2013, 47, 1-20.	3.3	158
3	Observations related to tetrahydrofuran and methane hydrates for laboratory studies of hydrate-bearing sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	108
4	Review on the gas hydrate development and production as a new energy resource. <i>KSCE Journal of Civil Engineering</i> , 2011, 15, 689-696.	1.9	79
5	CH ₄ "Flue gas replacement occurring in sH hydrates and its significance for CH ₄ recovery and CO ₂ sequestration. <i>Chemical Engineering Journal</i> , 2017, 308, 50-58.	12.7	73
6	Parametric study of the physical properties of hydrate-bearing sand, silt, and clay sediments: 2. Small-strain mechanical properties. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	61
7	Geotechnical properties of deep oceanic sediments recovered from the hydrate occurrence regions in the Ulleung Basin, East Sea, offshore Korea. <i>Marine and Petroleum Geology</i> , 2011, 28, 1870-1883.	3.3	61
8	Volume change associated with formation and dissociation of hydrate in sediment. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	57
9	One-dimensional productivity assessment for on-field methane hydrate production using CO ₂ /N ₂ mixture gas. <i>AIChE Journal</i> , 2015, 61, 1004-1014.	3.6	56
10	Isostructural and cage-specific replacement occurring in sH hydrate with external CO ₂ /N ₂ gas and its implications for natural gas production and CO ₂ storage. <i>Applied Energy</i> , 2016, 178, 579-586.	10.1	49
11	Molecular and isotopic signatures in sediments and gas hydrate of the central/southwestern Ulleung Basin: high alkalinity escape fuelled by biogenically sourced methane. <i>Geo-Marine Letters</i> , 2011, 31, 37-49.	1.1	46
12	Thermodynamic stability and guest distribution of CH ₄ /N ₂ /CO ₂ mixed hydrates for methane hydrate production using N ₂ /CO ₂ injection. <i>Journal of Chemical Thermodynamics</i> , 2017, 106, 16-21.	2.0	46
13	Structural transition induced by cage-dependent guest exchange in CH ₄ -C ₃ H ₈ hydrates with CO ₂ injection for energy recovery and CO ₂ sequestration. <i>Applied Energy</i> , 2018, 228, 229-239.	10.1	44
14	Depressurization-induced Fines Migration in Sediments Containing Methane Hydrate: X-Ray Computed Tomography Imaging Experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2539-2558.	3.4	42
15	Parametric study of the physical properties of hydrate-bearing sand, silt, and clay sediments: 1. Electromagnetic properties. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
16	Geotechnical and geophysical properties of deep marine fine-grained sediments recovered during the second Ulleung Basin Gas Hydrate expedition, East Sea, Korea. <i>Marine and Petroleum Geology</i> , 2013, 47, 56-65.	3.3	38
17	Effect of Pore Size Distribution on Dissociation Temperature Depression and Phase Boundary Shift of Gas Hydrate in Various Fine-Grained Sediments. <i>Energy & Fuels</i> , 2018, 32, 5321-5330.	5.1	38
18	Sediment mounds and other sedimentary features related to hydrate occurrences in a columnar seismic blanking zone of the Ulleung Basin, East Sea, Korea. <i>Marine and Petroleum Geology</i> , 2011, 28, 1787-1800.	3.3	33

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19	Fines migration and pore clogging induced by single- and two-phase fluid flows in porous media: From the perspectives of particle detachment and particle-level forces. <i>Geomechanics for Energy and the Environment</i> , 2020, 23, 100131.	2.5	28
20	Stress-dependent and strength properties of gas hydrate-bearing marine sediments from the Ulleung Basin, East Sea, Korea. <i>Marine and Petroleum Geology</i> , 2013, 47, 66-76.	3.3	26
21	Methane Production From Marine Gas Hydrate Deposits in Korea: Thermal-Hydraulic-Mechanical Simulation on Production Wellbore Stability. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9555-9569.	3.4	24
22	Soaking Process for the Enhanced Methane Recovery of Gas Hydrates via CO ₂ /N ₂ Gas Injection. <i>Energy & Fuels</i> , 2015, 29, 8143-8150.	5.1	21
23	Geomechanical, Hydraulic and Thermal Characteristics of Deep Oceanic Sandy Sediments Recovered during the Second Ulleung Basin Gas Hydrate Expedition. <i>Energies</i> , 2016, 9, 775.	3.1	18
24	Electrical Resistivity Measurements of Methane Hydrate during N ₂ /CO ₂ Gas Exchange. <i>Energy & Fuels</i> , 2017, 31, 708-713.	5.1	15
25	Physical and geotechnical properties of drill core sediments in the Heuksan Mud Belt off SW Korea. <i>Quaternary International</i> , 2018, 468, 33-48.	1.5	15
26	Estimation of model parameters and properties for numerical simulation on geomechanical stability of gas hydrate production in the Ulleung Basin, East Sea, Korea. <i>Quaternary International</i> , 2017, 459, 55-68.	1.5	14
27	Multiple porosity model of a heterogeneous layered gas hydrate deposit in Ulleung Basin, East Sea, Korea: A study on depressurization strategies, reservoir geomechanical response, and wellbore stability. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104321.	4.4	14
28	Effects of CH ₄ →CO ₂ replacement in hydrate-bearing sediments on S-wave velocity and electrical resistivity. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 82, 103506.	4.4	13
29	Effects of soaking process on CH ₄ →CO ₂ replacement efficiency for hydrate-bearing sediments. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 107772.	4.2	12
30	Depressurization experiment of pressure cores from the central Ulleung Basin, East Sea: Insights into gas chemistry. <i>Organic Geochemistry</i> , 2013, 62, 86-95.	1.8	11
31	Validation of strongly coupled geomechanics and gas hydrate reservoir simulation with multiscale laboratory tests. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 149, 104958.	5.8	10
32	Effects of Fine-Grained Particles' Migration and Clogging in Porous Media on Gas Production from Hydrate-Bearing Sediments. <i>Geofluids</i> , 2019, 2019, 1-11.	0.7	9
33	Characterization of deep sea sediments from the continental margin off Costa Rica. <i>Ocean Engineering</i> , 2016, 111, 13-21.	4.3	8
34	Potential freshening impacts on fines migration and pore-throat clogging during gas hydrate production: 2-D micromodel study with Diatomaceous UBGH ₂ sediments. <i>Marine and Petroleum Geology</i> , 2020, 116, 104244.	3.3	8
35	Numerical Simulation of Gas Hydrate Production Using the Cyclic Depressurization Method in the Ulleung Basin of the Korea East Sea. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9748.	2.5	7
36	Effect of Permeability on Hydrate-Bearing Sediment Productivity and Stability in Ulleung Basin, East Sea, South Korea. <i>Energies</i> , 2021, 14, 1752.	3.1	6

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37	Introduction to Special Issue on Gas Hydrate in Porous Media: Linking Laboratory and Field-Scale Phenomena. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 7525-7537.	3.4	3
38	Comparison of logging-while-drilling and wireline logging data from gas hydrate-bearing deep-sea sediments, the Ulleung Basin, East Sea. <i>Exploration Geophysics</i> , 0, , 1-12.	1.1	2
39	The Effects of Coupling Stiffness and Slippage of Interface Between the Wellbore and Unconsolidated Sediment on the Stability Analysis of the Wellbore Under Gas Hydrate Production. <i>Energies</i> , 2019, 12, 4177.	3.1	1
40	Geomechanically Sustainable Gas Hydrate Production Using a 3D Geological Model in the Ulleung Basin of the Korean East Sea. <i>Energies</i> , 2022, 15, 2569.	3.1	1
41	Integration of Electromagnetic Geophysics Forward Simulation in Coupled Flow and Geomechanics for Monitoring a Gas Hydrate Deposit Located in the Ulleung Basin, East Sea, Korea. <i>Energies</i> , 2022, 15, 3823.	3.1	1
42	Core scale Evaluation Of Geomechanical Property Related To Gas Production From Gas Hydrate Deposits In The Ulleng Basin, East Sea, Korea. , 2014, , .		0