

# 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	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
2	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
3	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
4	Effects of soaking process on CH <sub>4</sub> →CO <sub>2</sub> replacement efficiency for hydrate-bearing sediments. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 107772.	4.2	12
5	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
6	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
7	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
8	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
9	Effects of CH <sub>4</sub> →CO <sub>2</sub> 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
10	Potential freshening impacts on fines migration and pore-throat clogging during gas hydrate production: 2-D micromodel study with Diatomaceous UBGH <sub>2</sub> sediments. <i>Marine and Petroleum Geology</i> , 2020, 116, 104244.	3.3	8
11	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
12	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
13	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
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	Effect of Pore Size Distribution on Dissociation Temperature Depression and Phase Boundary Shift of Gas Hydrate in Various Fine-Grained Sediments. <i>Energy &amp; Fuels</i> , 2018, 32, 5321-5330.	5.1	38
16	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
17	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
18	Structural transition induced by cage-dependent guest exchange in CH <sub>4</sub> +C <sub>3</sub> H <sub>8</sub> hydrates with CO <sub>2</sub> injection for energy recovery and CO <sub>2</sub> sequestration. <i>Applied Energy</i> , 2018, 228, 229-239.	10.1	44

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19	Electrical Resistivity Measurements of Methane Hydrate during N <sub>2</sub> /CO <sub>2</sub> Gas Exchange. <i>Energy &amp; Fuels</i> , 2017, 31, 708-713.	5.1	15
20	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
21	Thermodynamic stability and guest distribution of CH <sub>4</sub> /N <sub>2</sub> /CO <sub>2</sub> mixed hydrates for methane hydrate production using N <sub>2</sub> /CO <sub>2</sub> injection. <i>Journal of Chemical Thermodynamics</i> , 2017, 106, 16-21.	2.0	46
22	CH <sub>4</sub> “Flue gas replacement occurring in sH hydrates and its significance for CH <sub>4</sub> recovery and CO <sub>2</sub> sequestration. <i>Chemical Engineering Journal</i> , 2017, 308, 50-58.	12.7	73
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	Characterization of deep sea sediments from the continental margin off Costa Rica. <i>Ocean Engineering</i> , 2016, 111, 13-21.	4.3	8
25	Isostructural and cage-specific replacement occurring in sII hydrate with external CO <sub>2</sub> /N <sub>2</sub> gas and its implications for natural gas production and CO <sub>2</sub> storage. <i>Applied Energy</i> , 2016, 178, 579-586.	10.1	49
26	Energy-efficient natural gas hydrate production using gas exchange. <i>Applied Energy</i> , 2016, 162, 114-130.	10.1	207
27	One-dimensional productivity assessment for on-field methane hydrate production using CO <sub>2</sub> /N <sub>2</sub> mixture gas. <i>AIChE Journal</i> , 2015, 61, 1004-1014.	3.6	56
28	Soaking Process for the Enhanced Methane Recovery of Gas Hydrates via CO <sub>2</sub> /N <sub>2</sub> Gas Injection. <i>Energy &amp; Fuels</i> , 2015, 29, 8143-8150.	5.1	21
29	Core scale Evaluation Of Geomechanical Property Related To Gas Production From Gas Hydrate Deposits In The Ulleng Basin, East Sea, Korea. , 2014, , .		0
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	Review on the gas hydrate development and production as a new energy resource. KSCE Journal of Civil Engineering, 2011, 15, 689-696.	1.9	79
38	Volume change associated with formation and dissociation of hydrate in sediment. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	57
39	Parametric study of the physical properties of hydrate-bearing sand, silt, and clay sediments: 2. Small-strain mechanical properties. Journal of Geophysical Research, 2010, 115, .	3.3	61
40	Parametric study of the physical properties of hydrate-bearing sand, silt, and clay sediments: 1. Electromagnetic properties. Journal of Geophysical Research, 2010, 115, .	3.3	39
41	Observations related to tetrahydrofuran and methane hydrates for laboratory studies of hydrate-bearing sediments. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	108
42	Comparison of logging-while-drilling and wireline logging data from gas hydrate-bearing deep-sea sediments, the Ulleung Basin, East Sea. Exploration Geophysics, 0, , 1-12.	1.1	2