

Yohan Lee

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,122
citations

516215

16
h-index

794141

19
g-index

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all docs

20
docs citations

20
times ranked

545
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural gas hydrate resources and hydrate technologies: a review and analysis of the associated energy and global warming challenges. <i>Energy and Environmental Science</i> , 2021, 14, 5611-5668.	15.6	147
2	Experimental Verification of Methane \leftrightarrow Carbon Dioxide Replacement in Natural Gas Hydrates Using a Differential Scanning Calorimeter. <i>Environmental Science & Technology</i> , 2013, 47, 13184-13190.	4.6	139
3	CH ₄ recovery and CO ₂ sequestration using flue gas in natural gas hydrates as revealed by a micro-differential scanning calorimeter. <i>Applied Energy</i> , 2015, 150, 120-127.	5.1	116
4	Hydrate-based pre-combustion capture of carbon dioxide in the presence of a thermodynamic promoter and porous silica gels. <i>International Journal of Greenhouse Gas Control</i> , 2013, 14, 193-199.	2.3	115
5	Structure identification and dissociation enthalpy measurements of the CO ₂ + N ₂ hydrates for their application to CO ₂ capture and storage. <i>Chemical Engineering Journal</i> , 2014, 246, 20-26.	6.6	88
6	CH ₄ \leftrightarrow 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.	6.6	73
7	CH ₄ -CO ₂ replacement occurring in sH natural gas hydrates for CH ₄ recovery and CO ₂ sequestration. <i>Energy Conversion and Management</i> , 2017, 150, 356-364.	4.4	60
8	Thermodynamic and kinetic influences of NaCl on HFC-125a hydrates and their significance in gas hydrate-based desalination. <i>Chemical Engineering Journal</i> , 2019, 358, 598-605.	6.6	55
9	Enclathration of CO ₂ as a co-guest of structure H hydrates and its implications for CO ₂ capture and sequestration. <i>Applied Energy</i> , 2016, 163, 51-59.	5.1	54
10	Enhanced CH ₄ Recovery Induced via Structural Transformation in the CH ₄ /CO ₂ Replacement That Occurs in sH Hydrates. <i>Environmental Science & Technology</i> , 2015, 49, 8899-8906.	4.6	45
11	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.	5.1	44
12	Influence of CH ₄ hydrate exploitation using depressurization and replacement methods on mechanical strength of hydrate-bearing sediment. <i>Applied Energy</i> , 2020, 277, 115569.	5.1	38
13	Accurate measurement of phase equilibria and dissociation enthalpies of HFC-134a hydrates in the presence of NaCl for potential application in desalination. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 1425-1430.	1.2	35
14	Guest enclathration and structural transition in CO ₂ + N ₂ + methylcyclopentane hydrates and their significance for CO ₂ capture and sequestration. <i>Chemical Engineering Journal</i> , 2017, 320, 43-49.	6.6	35
15	Investigation of Hydrate-induced Ice Desalination (HIID) and its application to a pretreatment of reverse osmosis (RO) process. <i>Desalination</i> , 2016, 395, 8-16.	4.0	26
16	Influence of Competitive Inclusion of CO ₂ and N ₂ on sH Hydrate \leftrightarrow Flue Gas Replacement for Energy Recovery and CO ₂ Sequestration. <i>Environmental Science & Technology</i> , 2020, 54, 7562-7569.	4.6	24
17	Optimal driving force for the dissociation of CH ₄ hydrates in hydrate-bearing sediments using depressurization. <i>Energy</i> , 2021, 223, 120047.	4.5	14
18	Influence of feed gas composition on structural transformation and guest exchange behaviors in sH hydrate \leftrightarrow Flue gas replacement for energy recovery and CO ₂ sequestration. <i>Energy</i> , 2020, 207, 118299.	4.5	8

#	ARTICLE	IF	CITATIONS
19	Mechanism and kinetics of guest exchange in sII hydrate “Flue gas replacement as revealed by experimental and computational approaches for hydrocarbon recovery and CO2 sequestration. Chemical Engineering Journal, 2021, 417, 128119.	6.6	5
20	Evaluation of Hydrate Inhibition Performance of Water-soluble Polymers using Torque Measurement and Differential Scanning Calorimeter. Korean Chemical Engineering Research, 2014, 52, 814-820.	0.2	1