

Jeong-Hoon Sa

List of Publications by Year in descending order

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33
papers

1,071
citations

516710

16
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

623
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrophobic amino acids as a new class of kinetic inhibitors for gas hydrate formation. Scientific Reports, 2013, 3, 2428.	3.3	187
2	Inhibition of methane and natural gas hydrate formation by altering the structure of water with amino acids. Scientific Reports, 2016, 6, 31582.	3.3	153
3	Amino Acids as Natural Inhibitors for Hydrate Formation in CO ₂ Sequestration. Environmental Science & Technology, 2011, 45, 5885-5891.	10.0	142
4	Gas hydrate inhibition by perturbation of liquid water structure. Scientific Reports, 2015, 5, 11526.	3.3	103
5	Abnormal incorporation of amino acids into the gas hydrate crystal lattice. Physical Chemistry Chemical Physics, 2014, 16, 26730-26734.	2.8	47
6	Promoting gas hydrate formation with ice-nucleating additives for hydrate-based applications. Applied Energy, 2019, 251, 113352.	10.1	43
7	Assessing thermodynamic consistency of gas hydrates phase equilibrium data for inhibited systems. Fluid Phase Equilibria, 2018, 473, 294-299.	2.5	40
8	Universal correlation for gas hydrates suppression temperature of inhibited systems: III. salts and organic inhibitors. AIChE Journal, 2018, 64, 4097-4109.	3.6	39
9	Hydrate Management in Deadlegs: Effect of Header Temperature on Hydrate Deposition. Energy & Fuels, 2017, 31, 11802-11810.	5.1	30
10	Rock-Flow Cell: An Innovative Benchtop Testing Tool for Flow Assurance Studies. Industrial & Engineering Chemistry Research, 2019, 58, 8544-8552.	3.7	29
11	Hydrate Management of Deadlegs in Oil and Gas Production Systems – Background and Development of Experimental Systems. Energy & Fuels, 2017, 31, 11783-11792.	5.1	25
12	Hydrate Management in Deadlegs: Effect of Wall Temperature on Hydrate Deposition. Energy & Fuels, 2018, 32, 3254-3262.	5.1	21
13	Investigating the effectiveness of anti-agglomerants in gas hydrates and ice formation. Fuel, 2019, 255, 115841.	6.4	20
14	The influence of boundary layer on the growth kinetics of carbon nanotube forests. Carbon, 2015, 93, 217-225.	10.3	18
15	Hydrate Management in Deadlegs: Hydrate Deposition Characterization in a 1-in. Vertical Pipe System. Energy & Fuels, 2017, 31, 13536-13544.	5.1	17
16	Hydrate Management in Deadlegs: Detection of Hydrate Deposition Using Permittivity Probe. Energy & Fuels, 2018, 32, 1693-1702.	5.1	16
17	Natural Hydrophilic Amino Acids as Environment-Friendly Gas Hydrate Inhibitors for Carbon Capture and Sequestration. ACS Sustainable Chemistry and Engineering, 2021, 9, 17413-17419.	6.7	16
18	Improving the tensile strength of carbon nanotube yarn via one-step double [2+1] cycloadditions. Korean Journal of Chemical Engineering, 2016, 33, 299-304.	2.7	15

#	ARTICLE	IF	CITATIONS
19	Phase equilibria and characterization of CO ₂ and SF ₆ binary hydrates for CO ₂ sequestration. Energy, 2017, 126, 306-311.	8.8	14
20	Gas-Hydrate Phase Equilibrium for Mixtures of Sulfur Hexafluoride and Hydrogen. Journal of Chemical & Engineering Data, 2012, 57, 1433-1436.	1.9	13
21	Flow Risk Index: A New Metric for Solid Precipitation Assessment in Flow Assurance Management Applied to Gas Hydrate Transportability. Energy & Fuels, 2020, 34, 9371-9378.	5.1	13
22	Hydrate Management in Deadlegs: Effect of Pipe Size on Hydrate Deposition. Energy & Fuels, 2020, 34, 1422-1431.	5.1	12
23	Universal correlation for gas hydrates suppression temperature of inhibited systems: IV. Water activity. AIChE Journal, 2021, 67, e17293.	3.6	10
24	Guest-Guest Interactions and Co-Occupation by Distinct Guests in the Metastable State of Clathrate Hydrates. Journal of Physical Chemistry C, 2019, 123, 3811-3816.	3.1	7
25	Hydrate management in deadlegs: Effect of driving force on hydrate deposition. Fuel, 2020, 279, 118481.	6.4	7
26	Hydrate management in Deadlegs: Effect of water vapor content on hydrate deposition. Fuel, 2020, 273, 117714.	6.4	7
27	“Continuous” Method for the Fast Screening of Thermodynamic Promoters of Gas Hydrates Using a Quartz Crystal Microbalance. Energy & Fuels, 2012, 26, 767-772.	5.1	6
28	Gas hydrates porosity and effective volume under multiphase flow conditions. Journal of Natural Gas Science and Engineering, 2020, 79, 103340.	4.4	6
29	Hydrate management in deadlegs: Limiting hydrate deposition with physical restriction. Fuel, 2020, 270, 117506.	6.4	5
30	Hydrate Management in Deadlegs: Hydrate Deposition in Pipes with Complex Geometry. Fuel, 2020, 269, 117440.	6.4	5
31	Hydrate Management for Hydrate Deposition in Gas-Filled Vertical Pipes. , 2019, , .		2
32	Advancing Laboratory Characterization and Qualification of Additives for Hydrate Slurry Flow in Multiphase Systems. Industrial & Engineering Chemistry Research, 2021, 60, 719-728.	3.7	2
33	Effects of Promoter on the Formation of Gas Hydrate from Blast Furnace Gas. Korean Chemical Engineering Research, 2015, 53, 103-110.	0.2	1