Boram Lee

List of Publications by Year
in descending order

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38 papers	1,408 citations	331259 21 h-index	329751 37 g-index
38 all docs	38 docs citations	38 times ranked	1102 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.	1.6	187
2	Precursor Effects of Citric Acid and Citrates on ZnO Crystal Formation. Langmuir, 2009, 25, 3825-3831.	1.6	146
3	Amino Acids as Natural Inhibitors for Hydrate Formation in CO₂ Sequestration. Environmental Science & Technology, 2011, 45, 5885-5891.	4.6	142
4	Quantitative measurement and mechanisms for CH₄ production from hydrates with the injection of liquid CO₂. Physical Chemistry Chemical Physics, 2014, 16, 14922-14927.	1.3	88
5	Thermodynamic and kinetic analysis of gas hydrates for desalination of saturated salinity water. Chemical Engineering Journal, 2019, 370, 980-987.	6.6	68
6	Gas Hydrates Phase Equilibria and Formation from High Concentration NaCl Brines up to 200 MPa. Journal of Chemical & Engineering Data, 2017, 62, 1910-1918.	1.0	52
7	Universal correlation for gas hydrates suppression temperature of inhibited systems: I. Single salts. AICHE Journal, 2017, 63, 5111-5124.	1.8	51
8	Large-Scale Fabrication of Sub-20-nm-Diameter ZnO Nanorod Arrays at Room Temperature and Their Photocatalytic Activity. Journal of Physical Chemistry C, 2009, 113, 10452-10458.	1.5	50
9	Pure SF₆ and SF₆â˜N₂ Mixture Gas Hydrates Equilibrium and Kinetic Characteristics. Environmental Science & Technology, 2009, 43, 7723-7727.	4.6	48
10	Abnormal incorporation of amino acids into the gas hydrate crystal lattice. Physical Chemistry Chemical Physics, 2014, 16, 26730-26734.	1.3	47
11	Universal correlation for gas hydrates suppression temperature of inhibited systems: III. salts and organic inhibitors. AICHE Journal, 2018, 64, 4097-4109.	1.8	39
12	Gas hydrates phase equilibria for structure I and II hydrates with chloride salts at high salt concentrations and up to 200 MPa. Journal of Chemical Thermodynamics, 2018, 117, 27-32.	1.0	33
13	Phase equilibrium data of methane hydrates in mixed brine solutions. Journal of Natural Gas Science and Engineering, 2017, 46, 750-755.	2.1	32
14	Hydrate Management in Deadlegs: Effect of Header Temperature on Hydrate Deposition. Energy & Fuels, 2017, 31, 11802-11810.	2.5	30
15	Insight into increased stability of methane hydrates at high pressure from phase equilibrium data and molecular structure. Fluid Phase Equilibria, 2017, 450, 24-29.	1.4	30
16	Universal correlation for gas hydrates suppression temperature of inhibited systems: II. Mixed salts and structure type. AICHE Journal, 2018, 64, 2240-2250.	1.8	29
17	Fabrication of ZnO nanoneedle arrays by direct microwave irradiation. Materials Letters, 2009, 63, 739-741.	1.3	27
18	Micromechanical Cohesion Force between Gas Hydrate Particles Measured under High Pressure and Low Temperature Conditions. Langmuir, 2015, 31, 3884-3888.	1.6	27

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19	Mechanism of Cohesive Forces of Cyclopentane Hydrates with and without Thermodynamic Inhibitors. Industrial & Engineering Chemistry Research, 2014, 53, 18189-18193.	1.8	26
20	Hydrate Management of Deadlegs in Oil and Gas Production Systems â€“ Background and Development of Experimental Systems. Energy & Fuels, 2017, 31, 11783-11792.	2.5	25
21	Gas hydrate formation from high concentration KCl brines at ultra-high pressures. Journal of Industrial and Engineering Chemistry, 2017, 50, 142-146.	2.9	24
22	Surfactant effects on SF6 hydrate formation. Journal of Colloid and Interface Science, 2009, 331, 55-59.	5.0	23
23	Hydrate Management in Deadlegs: Effect of Wall Temperature on Hydrate Deposition. Energy & Fuels, 2018, 32, 3254-3262.	2.5	21
24	Development of a high pressure micromechanical force apparatus. Review of Scientific Instruments, 2014, 85, 095120.	0.6	19
25	Hydrate Management in Deadlegs: Hydrate Deposition Characterization in a 1-in. Vertical Pipe System. Energy & Fuels, 2017, 31, 13536-13544.	2.5	17
26	Hydrate Management in Deadlegs: Detection of Hydrate Deposition Using Permittivity Probe. Energy & Fuels, 2018, 32, 1693-1702.	2.5	16
27	Gas Hydrates Phase Equilibrium with CaBr₂ and CaBr₂ + MEG at Ultra-High Pressures. Journal of Natural Gas Engineering, 2017, 2, 42-49.	0.3	15
28	Phase equilibria and characterization of CO 2 and SF 6 binary hydrates for CO 2 sequestration. Energy, 2017, 126, 306-311.	4.5	14
29	Synthesis of density-controlled ZnO nanoneedle arrays on a flexible substrate by addition of Al salts and use of microwave irradiation. Materials Letters, 2009, 63, 2025-2028.	1.3	13
30	Gas-Hydrate Phase Equilibrium for Mixtures of Sulfur Hexafluoride and Hydrogen. Journal of Chemical & Engineering Data, 2012, 57, 1433-1436.	1.0	13
31	Phase Behavior and Raman Spectroscopic Analysis for CH₄ and CH₄/C₃H₈ Hydrates Formed from NaCl Brine and Monoethylene Glycol Mixtures. Journal of Chemical & Engineering Data, 2018, 63, 2179-2184.	1.0	13
32	Hydrate Management in Deadlegs: Effect of Pipe Size on Hydrate Deposition. Energy & Fuels, 2020, 34, 1422-1431.	2.5	12
33	Facile and Fast Synthesis of Single-Crystalline Fractal Zinc Structures through a Solution Phase Reaction and Their Conversion to Zinc Oxide. Langmuir, 2009, 25, 10223-10229.	1.6	9
34	Guestâ€“Guest Interactions and Co-Occupation by Distinct Guests in the Metastable State of Clathrate Hydrates. Journal of Physical Chemistry C, 2019, 123, 3811-3816.	1.5	7
35	â€œContinuousâ€•Method for the Fast Screening of Thermodynamic Promoters of Gas Hydrates Using a Quartz Crystal Microbalance. Energy & Fuels, 2012, 26, 767-772.	2.5	6
36	Quantification of the risk for hydrate formation during cool down in a dispersed oil-water system. Korean Journal of Chemical Engineering, 2017, 34, 2043-2048.	1.2	6

#	Article	IF	Citations
37	Hydrate Management for Hydrate Deposition in Gas-Filled Vertical Pipes. , 2019, , .		2
38	Effects of Promoter on the Formation of Gas Hydrate from Blast Furnace Gas. Korean Chemical Engineering Research, 2015, 53, 103-110.	0.2	1