

Zhi-Ming Xia

List of Publications by Year in descending order

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15
papers

706
citations

687363

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996975

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docs citations

15
times ranked

520
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas Hydrate Formation Process for Capture of Carbon Dioxide from Fuel Gas Mixture. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11614-11619.	3.7	153
2	Equilibrium Hydrate Formation Conditions for the Mixtures of CO ₂ + H ₂ + Tetrabutyl Ammonium Bromide. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 2180-2184.	1.9	124
3	Hydrate-based CO ₂ capture and CH ₄ purification from simulated biogas with synergic additives based on gas solvent. <i>Applied Energy</i> , 2016, 162, 1153-1159.	10.1	90
4	Molecular Dynamics Simulation of the Crystal Nucleation and Growth Behavior of Methane Hydrate in the Presence of the Surface and Nanopores of Porous Sediment. <i>Langmuir</i> , 2016, 32, 7975-7984.	3.5	60
5	Hydrate-based acidic gases capture for clean methane with new synergic additives. <i>Applied Energy</i> , 2017, 207, 584-593.	10.1	39
6	Thermodynamic Equilibrium Conditions for Simulated Landfill Gas Hydrate Formation in Aqueous Solutions of Additives. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 3290-3295.	1.9	38
7	Study on developing a novel continuous separation device and carbon dioxide separation by process of hydrate combined with chemical absorption. <i>Applied Energy</i> , 2019, 255, 113791.	10.1	38
8	Raman spectroscopic studies on carbon dioxide separation from fuel gas via clathrate hydrate in the presence of tetrahydrofuran. <i>Applied Energy</i> , 2018, 214, 92-102.	10.1	37
9	Insight into micro-mechanism of hydrate-based methane recovery and carbon dioxide capture from methane-carbon dioxide gas mixtures with thermal characterization. <i>Applied Energy</i> , 2019, 239, 57-69.	10.1	32
10	Experimental and modeling study on controlling factor of methane hydrate formation in silica gels. <i>Applied Energy</i> , 2018, 225, 827-834.	10.1	24
11	The plateau effects and crystal transition study in Tetrahydrofuran (THF)/CO ₂ /H ₂ hydrate formation processes. <i>Applied Energy</i> , 2019, 238, 195-201.	10.1	20
12	Hydrate-Based CO ₂ Capture from Integrated Gasification Combined Cycle Syngas with Tetra- <i>n</i> -butylammonium Bromide and Nano-Al ₂ O ₃ . <i>Energy & Fuels</i> , 2018, 32, 2064-2072.	5.1	19
13	Equilibrium Hydrate Formation Conditions of CO ₂ + N ₂ + SO ₂ Ternary Simulated Flue Gas in SO ₂ and Tetra- <i>n</i> -butylammonium Bromide Containing Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 103-109.	1.9	13
14	Anti-Agglomerator of Tetra- <i>n</i> -Butyl Ammonium Bromide Hydrate and Its Effect on Hydrate-Based CO ₂ Capture. <i>Energies</i> , 2018, 11, 399.	3.1	11
15	Effect of H ₂ O Molecules on the CO ₂ Replacement in CH ₄ Hydrate Behavior by Molecular Simulation. <i>Energy & Fuels</i> , 2021, 35, 8126-8140.	5.1	8