Shuai Liang

List of Publications by Year
in descending order

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24 papers	1,091 citations	516710 16 h-index	677142 22 g-index
24 all docs	24 docs citations	24 times ranked	1085 citing authors

#	Article	IF	Citations
1	From Hydrogen Bond to van der Waals Force: Molecular Scalpel Strategy to Exfoliate a Two-Dimensional Metalâ€“Organic Nanosheet. Inorganic Chemistry, 2022, 61, 5465-5468.	4.0	0
2	Molecular engineering in a family of pillared-layered metalâ€“organic frameworks for tuning gas adsorption behavior. Dalton Transactions, 2021, 50, 7409-7416.	3.3	5
3	Bifunctional electrocatalysts for Znâ€“air batteries: recent developments and future perspectives. Journal of Materials Chemistry A, 2020, 8, 6144-6182.	10.3	207
4	Characterizing key features in the formation of ice and gas hydrate systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180167.	3.4	22
5	Transient Translational and Rotational Water Defects in Gas Hydrates. Journal of Physical Chemistry C, 2017, 121, 17595-17602.	3.1	8
6	Molecular Mechanisms of Gas Diffusion in CO₂ Hydrates. Journal of Physical Chemistry C, 2016, 120, 16298-16304.	3.1	46
7	Molecular dynamics study of CH₄â€“CO₂ mixed hydrate dissociation. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 823-832.	1.5	6
8	The nucleation of gas hydrates near silica surfaces. Canadian Journal of Chemistry, 2015, 93, 791-798.	1.1	30
9	Recovering CH₄ from Natural Gas Hydrates with the Injection of CO₂â€“N₂ Gas Mixtures. Energy & Fuels, 2015, 29, 1099-1106.	5.1	44
10	Clathrate structure-type recognition: Application to hydrate nucleation and crystallisation. Journal of Chemical Physics, 2015, 142, 244503.	3.0	33
11	Communication: Structural interconversions between principal clathrate hydrate structures. Journal of Chemical Physics, 2015, 143, 011102.	3.0	18
12	Molecular Insights into the Homogeneous Melting of Methane Hydrates. Journal of Physical Chemistry C, 2014, 118, 28542-28547.	3.1	27
13	Nucleation of Gas Hydrates within Constant Energy Systems. Journal of Physical Chemistry B, 2013, 117, 1403-1410.	2.6	68
14	Exploring nucleation of H2S hydrates. Chemical Science, 2011, 2, 1286.	7.4	86
15	The Mobility of Water Molecules through Gas Hydrates. Journal of the American Chemical Society, 2011, 133, 1870-1876.	13.7	55
16	Crystal growth simulations of methane hydrates in the presence of silica surfaces. Physical Chemistry Chemical Physics, 2011, 13, 19856.	2.8	106
17	Theoretical Investigation of Electrochemical Signal from Nanoscale Systems. Electroanalysis, 2011, 23, 1447-1453.	2.9	11
18	Explorations of gas hydrate crystal growth by molecular simulations. Chemical Physics Letters, 2010, 494, 123-133.	2.6	89

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19	Crystal Growth Simulations of H₂S Hydrate. Journal of Physical Chemistry B, 2010, 114, 9563-9571.	2.6	66
20	The time delay in electrochemical measurements of a finite-volume system. Journal of Electroanalytical Chemistry, 2009, 633, 235-239.	3.8	5
21	The electrochemical behavior of a system with a limited number of molecules. Journal of Solid State Electrochemistry, 2008, 12, 701-706.	2.5	3
22	Dynamic Characterization of the Postbreaking Behavior of a Nanowire. Journal of Physical Chemistry C, 2008, 112, 20088-20094.	3.1	54
23	Where, and How, Does a Nanowire Break?. Nano Letters, 2007, 7, 1208-1212.	9.1	87
24	In SituRaman Analysis on the Dissociation Behavior of Mixed CH₄â€“CO₂Hydrates. Energy & Fuels, 0, , .	5.1	15