# Shuai Liang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/12120484/publications.pdf

Version: 2024-02-01

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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 | Bifunctional electrocatalysts for Znâ€“air batteries: recent developments and future perspectives. Journal of Materials Chemistry A, 2020, 8, 6144-6182. | 10.3 | 207 |
| 2 | Crystal growth simulations of methane hydrates in the presence of silica surfaces. Physical Chemistry Chemical Physics, 2011, 13, 19856. | 2.8 | 106 |
| 3 | Explorations of gas hydrate crystal growth by molecular simulations. Chemical Physics Letters, 2010, 494, 123-133. | 2.6 | 89 |
| 4 | Where, and How, Does a Nanowire Break?. Nano Letters, 2007, 7, 1208-1212. | 9.1 | 87 |
| 5 | Exploring nucleation of H2S hydrates. Chemical Science, 2011, 2, 1286. | 7.4 | 86 |
| 6 | Nucleation of Gas Hydrates within Constant Energy Systems. Journal of Physical Chemistry B, 2013, 117, 1403-1410. | 2.6 | 68 |
| 7 | Crystal Growth Simulations of H<sub>2</sub>S Hydrate. Journal of Physical Chemistry B, 2010, 114, 9563-9571. | 2.6 | 66 |
| 8 | The Mobility of Water Molecules through Gas Hydrates. Journal of the American Chemical Society, 2011, 133, 1870-1876. | 13.7 | 55 |
| 9 | Dynamic Characterization of the Postbreaking Behavior of a Nanowire. Journal of Physical Chemistry C, 2008, 112, 20088-20094. | 3.1 | 54 |
| 10 | Molecular Mechanisms of Gas Diffusion in CO<sub>2</sub> Hydrates. Journal of Physical Chemistry C, 2016, 120, 16298-16304. | 3.1 | 46 |
| 11 | Recovering CH<sub>4</sub> from Natural Gas Hydrates with the Injection of CO<sub>2</sub>â€“N<sub>2</sub> Gas Mixtures. Energy & Fuels, 2015, 29, 1099-1106. | 5.1 | 44 |
| 12 | Clathrate structure-type recognition: Application to hydrate nucleation and crystallisation. Journal of Chemical Physics, 2015, 142, 244503. | 3.0 | 33 |
| 13 | The nucleation of gas hydrates near silica surfaces. Canadian Journal of Chemistry, 2015, 93, 791-798. | 1.1 | 30 |
| 14 | Molecular Insights into the Homogeneous Melting of Methane Hydrates. Journal of Physical Chemistry C, 2014, 118, 28542-28547. | 3.1 | 27 |
| 15 | 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 |
| 16 | Communication: Structural interconversions between principal clathrate hydrate structures. Journal of Chemical Physics, 2015, 143, 011102. | 3.0 | 18 |
| 17 | In SituRaman Analysis on the Dissociation Behavior of Mixed CH<sub>4</sub>â€“CO<sub>2</sub>Hydrates. Energy & Fuels, 0, , . | 5.1 | 15 |
| 18 | Theoretical Investigation of Electrochemical Signal from Nanoscale Systems. Electroanalysis, 2011, 23, 1447-1453. | 2.9 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Transient Translational and Rotational Water Defects in Gas Hydrates. Journal of Physical Chemistry C, 2017, 121, 17595-17602. | 3.1 | 8 |
| 20 | Molecular dynamics study of CH<sub>4</sub>â€“CO<sub>2</sub> mixed hydrate dissociation. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 823-832. | 1.5 | 6 |
| 21 | The time delay in electrochemical measurements of a finite-volume system. Journal of Electroanalytical Chemistry, 2009, 633, 235-239. | 3.8 | 5 |
| 22 | 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 |
| 23 | The electrochemical behavior of a system with a limited number of molecules. Journal of Solid State Electrochemistry, 2008, 12, 701-706. | 2.5 | 3 |
| 24 | 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 |