Zhongjin He

List of Publications by Year
in descending order

21	1,124	516561 16	713332 21
papers	citations	h-index	g-index

21	21	21	1346
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bioinspired Graphene Nanopores with Voltage-Tunable Ion Selectivity for Na⁺ and K⁺. ACS Nano, 2013, 7, 10148-10157.	7.3	199
2	Molecular dynamics study on water desalination through functionalized nanoporous graphene. Carbon, 2017, 116, 120-127.	5.4	198
3	Molecular Insights into the Nucleation and Growth of CH₄ and CO₂ Mixed Hydrates from Microsecond Simulations. Journal of Physical Chemistry C, 2016, 120, 25225-25236.	1.5	84
4	CH₄ Hydrate Formation between Silica and Graphite Surfaces: Insights from Microsecond Molecular Dynamics Simulations. Langmuir, 2017, 33, 11956-11967.	1.6	80
5	Probing carbon nanotubeâ€“amino acid interactions in aqueous solution with molecular dynamics simulations. Carbon, 2014, 78, 500-509.	5.4	78
6	What are the key factors governing the nucleation of CO₂ hydrate?. Physical Chemistry Chemical Physics, 2017, 19, 15657-15661.	1.3	75
7	Computational design of 2D functional covalentâ€“organic framework membranes for water desalination. Environmental Science: Water Research and Technology, 2017, 3, 735-743.	1.2	69
8	Ice-like Water Structure in Carbon Nanotube (8,8) Induces Cationic Hydration Enhancement. Journal of Physical Chemistry C, 2013, 117, 11412-11420.	1.5	64
9	Molecular insights into CO2 hydrate formation in the presence of hydrophilic and hydrophobic solid surfaces. Energy, 2021, 234, 121260.	4.5	42
10	Electric-Field Effects on Ionic Hydration: A Molecular Dynamics Study. Journal of Physical Chemistry B, 2018, 122, 5991-5998.	1.2	36
11	Formation of CH₄ Hydrate in a Mesoporous Metalâ€“Organic Framework MIL-101: Mechanistic Insights from Microsecond Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2019, 10, 7002-7008.	2.1	35
12	Efficient ethanol/water separation via functionalized nanoporous graphene membranes: insights from molecular dynamics study. Journal of Materials Science, 2017, 52, 173-184.	1.7	34
13	A mechanical nanogate based on a carbon nanotube for reversible control of ion conduction. Nanoscale, 2014, 6, 3686-3694.	2.8	22
14	Methane Hydrate Formation in the Salty Water Confined in Clay Nanopores: A Molecular Simulation Study. ACS Sustainable Chemistry and Engineering, 2022, 10, 6128-6140.	3.2	20
15	Facilitating gas hydrate dissociation kinetics and gas migration in clay interlayer by surface cations shielding effects. Fuel, 2022, 318, 123576.	3.4	18
16	Molecular insights into the effects of surface property and pore size of non-swelling clay on methane hydrate formation. Fuel, 2022, 311, 122607.	3.4	17
17	Dipeptide Crystals as Reverse Osmosis Membranes for Water Desalination: Atomistic Simulation. Journal of Physical Chemistry C, 2018, 122, 6026-6032.	1.5	13
18	The effects of hydrate formation and dissociation on the water-oil interface: Insight into the stability of an emulsion. Fuel, 2020, 266, 116980.	3.4	12

#	Article	IF	Citations
19	Molecular simulations of charged complex fluids: A review. Chinese Journal of Chemical Engineering, 2021, 31, 206-226.	1.7	11
20	Molecular Dynamics Study on the Spontaneous Adsorption of Aromatic Carboxylic Acids to Methane Hydrate Surfaces: Implications for Hydrate Antiagglomeration. Energy & Fuels, 2022, 36, 3628-3639.	2.5	9
21	Complex Coupled Effects of Seawater Ions and Clay Surfaces on CH₄ Hydrate Formation in Kaolinite Janus-Nanopores and Bulk Solution. Energy & Fuels, 2022, 36, 5775-5783.	2.5	8