Mirza Galib

List of Publications by Year
in descending order

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16 papers	641 citations	840776 11 h-index	940533 16 g-index
18 all docs	18 docs citations	18 times ranked	960 citing authors

#	Article	IF	Citations
1	Supersaturated calcium carbonate solutions are classical. Science Advances, 2018, 4, eaao6283.	10.3	116
2	Critical Review on Gas Hydrate Formation at Solid Surfaces and in Confined Spacesâ€"Why and How Does Interfacial Regime Matter?. Energy & Fuels, 2020, 34, 6751-6760.	5.1	95
3	Interfacial Gas Enrichment at Hydrophobic Surfaces and the Origin of Promotion of Gas Hydrate Formation by Hydrophobic Solid Particles. Journal of Physical Chemistry C, 2017, 121, 3830-3840.	3.1	94
4	Reactive uptake of N ₂ O ₅ by atmospheric aerosol is dominated by interfacial processes. Science, 2021, 371, 921-925.	12.6	71
5	Mass density fluctuations in quantum and classical descriptions of liquid water. Journal of Chemical Physics, 2017, 146, 244501.	3.0	44
6	Mechanistic Insights into the Dissociation and Decomposition of Carbonic Acid in Water via the Hydroxide Route: An Ab Initio Metadynamics Study. Journal of Physical Chemistry B, 2011, 115, 15024-15035.	2.6	39
7	The structure of liquid water up to 360 MPa from x-ray diffraction measurements using a high Q-range and from molecular simulation. Journal of Chemical Physics, 2016, 144, 134504.	3.0	38
8	Quantifying the hydration structure of sodium and potassium ions: taking additional steps on Jacob's Ladder. Physical Chemistry Chemical Physics, 2020, 22, 10641-10652.	2.8	38
9	Learning intermolecular forces at liquidâ€"vapor interfaces. Journal of Chemical Physics, 2021, 155, 164101.	3.0	26
10	Molecular dynamics simulations predict an accelerated dissociation of H₂CO₃at the airâ€"water interface. Physical Chemistry Chemical Physics, 2014, 16, 25573-25582.	2.8	22
11	The Role of Hydrogen Bonding in the Decomposition of H₂CO₃ in Water: Mechanistic Insights from Ab Initio Metadynamics Studies of Aqueous Clusters. Journal of Physical Chemistry B, 2014, 118, 5983-5993.	2.6	19
12	Unraveling the spectral signatures of solvent ordering in K-edge XANES of aqueous Na+. Journal of Chemical Physics, 2018, 149, 124503.	3.0	12
13	On the relation between Marcus theory and ultrafast spectroscopy of solvation kinetics. Chemical Physics Letters, 2018, 692, 407-415.	2.6	10
14	Uptake of N2O5 by aqueous aerosol unveiled using chemically accurate many-body potentials. Nature Communications, 2022, 13, 1266.	12.8	8
15	Near-Quantitative Predictions of the First-Shell Coordination Structure of Hydrated First-Row Transition Metal Ions Using K-Edge X-ray Absorption Near-Edge Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 6323-6330.	4.6	6
16	Investigations of Bis(alkylthiocarbamato)copper Linkage Isomers. Inorganic Chemistry, 2022, 61, 7715-7719.	4.0	2