Rajib Biswas

List of Publications by Year
in descending order

21	515	687363 13	713466 21
papers	citations	h-index	g-index

21	21	21	719
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular Insight into the High Thermal Stability of Metalloprotein Azurin. Journal of Physical Chemistry B, 2022, 126, 2496-2506.	2.6	2
2	Effects of hydrophobic solute on water normal modes. Chemical Physics, 2021, 550, 111303.	1.9	2
3	Theoretical spectroscopy of isotopically dilute water and hydrophobicity. Journal of Chemical Physics, 2020, 153, 094501.	3.0	4
4	Enhancement of reaction rate in small-sized droplets: A combined analytical and simulation study. Journal of Chemical Physics, 2018, 148, 244704.	3.0	47
5	Study of distance dependence of hydrophobic force between two graphene-like walls and a signature of pressure induced structure formation in the confined water. Journal of Chemical Physics, 2018, 149, 044502.	3.0	11
6	Infrared spectroscopic study of super-critical water across the Widom line. Chemical Physics Letters, 2018, 702, 96-101.	2.6	7
7	Anomalous water dynamics at surfaces and interfaces: synergistic effects of confinement and surface interactions. Journal of Physics Condensed Matter, 2018, 30, 013001.	1.8	17
8	IR spectral assignments for the hydrated excess proton in liquid water. Journal of Chemical Physics, 2017, 146, 154507.	3.0	61
9	Role of solvation structure in the shuttling of the hydrated excess proton. Journal of Chemical Sciences, 2017, 129, 1045-1051.	1.5	4
10	Delocalization and stretch-bend mixing of the HOH bend in liquid water. Journal of Chemical Physics, 2017, 147, 084503.	3.0	51
11	Molecular modeling and assignment of IR spectra of the hydrated excess proton in isotopically dilute water. Journal of Chemical Physics, 2016, 145, 154504.	3.0	19
12	Differences in the Vibrational Dynamics of H₂O and D₂O: Observation of Symmetric and Antisymmetric Stretching Vibrations in Heavy Water. Journal of Physical Chemistry Letters, 2016, 7, 1769-1774.	4.6	68
13	Role of Presolvation and Anharmonicity in Aqueous Phase Hydrated Proton Solvation and Transport. Journal of Physical Chemistry B, 2016, 120, 1793-1804.	2.6	68
14	Use of polydispersity index as control parameter to study melting/freezing of Lennard-Jones system: Comparison among predictions of bifurcation theory with Lindemann criterion, inherent structure analysis and Hansen-Verlet rule. Journal of Chemical Sciences, 2015, 127, 1715-1728.	1.5	4
15	Spatio-temporal correlations in aqueous systems: computational studies of static and dynamic heterogeneity by 2D-IR spectroscopy. Faraday Discussions, 2015, 177, 313-328.	3.2	7
16	Diffusion on a rugged energy landscape with spatial correlations. Journal of Chemical Physics, 2014, 141, 124105.	3.0	27
17	Solid-liquid transition in polydisperse Lennard-Jones systems. Physical Review E, 2013, 88, 022104.	2.1	14
18	Layerwise decomposition of water dynamics in reverse micelles: A simulation study of two-dimensional infrared spectrum. Journal of Chemical Physics, 2013, 139, 144906.	3.0	23

#	Article	IF	Citations
19	Non-monotonic, distance-dependent relaxation of water in reverse micelles: Propagation of surface induced frustration along hydrogen bond networks. Journal of Chemical Physics, 2012, 137, 014515.	3.0	27
20	Dynamic coupling between the LID and NMP domain motions in the catalytic conversion of ATP and AMP to ADP by adenylate kinase. Journal of Chemical Physics, 2011, 134, 035101.	3.0	37
21	A kinetic Ising model study of dynamical correlations in confined fluids: Emergence of both fast and slow time scales. Journal of Chemical Physics, 2010, 133, 084509.	3.0	15