

# Rajib Biswas

## List of Publications by Year in descending order

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21  
papers

515  
citations

687363

13  
h-index

713466

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

719  
citing authors

#	ARTICLE	IF	CITATIONS
1	Differences in the Vibrational Dynamics of H <sub>2</sub> O and D <sub>2</sub> O: Observation of Symmetric and Antisymmetric Stretching Vibrations in Heavy Water. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1769-1774.	4.6	68
2	Role of Presolvation and Anharmonicity in Aqueous Phase Hydrated Proton Solvation and Transport. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1793-1804.	2.6	68
3	IR spectral assignments for the hydrated excess proton in liquid water. <i>Journal of Chemical Physics</i> , 2017, 146, 154507.	3.0	61
4	Delocalization and stretch-bend mixing of the HOH bend in liquid water. <i>Journal of Chemical Physics</i> , 2017, 147, 084503.	3.0	51
5	Enhancement of reaction rate in small-sized droplets: A combined analytical and simulation study. <i>Journal of Chemical Physics</i> , 2018, 148, 244704.	3.0	47
6	Dynamic coupling between the LID and NMP domain motions in the catalytic conversion of ATP and AMP to ADP by adenylate kinase. <i>Journal of Chemical Physics</i> , 2011, 134, 035101.	3.0	37
7	Non-monotonic, distance-dependent relaxation of water in reverse micelles: Propagation of surface induced frustration along hydrogen bond networks. <i>Journal of Chemical Physics</i> , 2012, 137, 014515.	3.0	27
8	Diffusion on a rugged energy landscape with spatial correlations. <i>Journal of Chemical Physics</i> , 2014, 141, 124105.	3.0	27
9	Layerwise decomposition of water dynamics in reverse micelles: A simulation study of two-dimensional infrared spectrum. <i>Journal of Chemical Physics</i> , 2013, 139, 144906.	3.0	23
10	Molecular modeling and assignment of IR spectra of the hydrated excess proton in isotopically dilute water. <i>Journal of Chemical Physics</i> , 2016, 145, 154504.	3.0	19
11	Anomalous water dynamics at surfaces and interfaces: synergistic effects of confinement and surface interactions. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 013001.	1.8	17
12	A kinetic Ising model study of dynamical correlations in confined fluids: Emergence of both fast and slow time scales. <i>Journal of Chemical Physics</i> , 2010, 133, 084509.	3.0	15
13	Solid-liquid transition in polydisperse Lennard-Jones systems. <i>Physical Review E</i> , 2013, 88, 022104.	2.1	14
14	Study of distance dependence of hydrophobic force between two graphene-like walls and a signature of pressure induced structure formation in the confined water. <i>Journal of Chemical Physics</i> , 2018, 149, 044502.	3.0	11
15	Spatio-temporal correlations in aqueous systems: computational studies of static and dynamic heterogeneity by 2D-IR spectroscopy. <i>Faraday Discussions</i> , 2015, 177, 313-328.	3.2	7
16	Infrared spectroscopic study of super-critical water across the Widom line. <i>Chemical Physics Letters</i> , 2018, 702, 96-101.	2.6	7
17	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. <i>Journal of Chemical Sciences</i> , 2015, 127, 1715-1728.	1.5	4
18	Role of solvation structure in the shuttling of the hydrated excess proton. <i>Journal of Chemical Sciences</i> , 2017, 129, 1045-1051.	1.5	4

#	ARTICLE	IF	CITATIONS
19	Theoretical spectroscopy of isotopically dilute water and hydrophobicity. Journal of Chemical Physics, 2020, 153, 094501.	3.0	4
20	Effects of hydrophobic solute on water normal modes. Chemical Physics, 2021, 550, 111303.	1.9	2
21	Molecular Insight into the High Thermal Stability of Metalloprotein Azurin. Journal of Physical Chemistry B, 2022, 126, 2496-2506.	2.6	2