

# Ananya Debnath

## List of Publications by Year in descending order

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28  
papers

469  
citations

840585

11  
h-index

713332

21  
g-index

28  
all docs

28  
docs citations

28  
times ranked

549  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a hydrolase mimicking peptide amphiphile and its immobilization on silica surface for stereoselective and enhanced catalysis. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 98-110.	5.0	13
2	Structural changes of interfacial water upon fluid-ripple-gel phase transitions of bilayers. <i>Chemical Physics Letters</i> , 2022, 799, 139613.	1.2	4
3	Interactions Determining the Structural Integrity of the Trimer of Plant Light Harvesting Complex in Lipid Membranes. <i>Journal of Membrane Biology</i> , 2021, 254, 157-173.	1.0	2
4	A Comparative Study on DMSO-Induced Modulation of the Structural and Dynamical Properties of Model Bilayer Membranes. <i>Langmuir</i> , 2021, 37, 2065-2078.	1.6	11
5	Dehydration induced dynamical heterogeneity and ordering mechanism of lipid bilayers. <i>Journal of Chemical Physics</i> , 2021, 154, 174904.	1.2	13
6	Modulation of Membrane Fluidity to Control Interfacial Water Structure and Dynamics in Saturated and Unsaturated Phospholipid Vesicles. <i>Langmuir</i> , 2020, 36, 12423-12434.	1.6	7
7	Molecular dynamics simulations of a stacked $\text{Cu}^{\text{II}}$ -conjugated soft material: binding energy and preferential geometry for self-assembly. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	2
8	Dynamic coupling of a hydration layer to a fluid phospholipid membrane: intermittency and multiple time-scale relaxations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21158-21168.	1.3	7
9	Asymmetry and Rippling in Mixed Surfactant Bilayers from All-Atom and Coarse-Grained Simulations: Interdigitation and Per Chain Entropy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6420-6436.	1.2	13
10	Cylindrical to spherical shape transformations of micelles using all-atom and coarse-grained molecular dynamics simulations. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
11	Heterogeneity in structure and dynamics of water near bilayers using TIP3P and TIP4P/2005 water models. <i>Chemical Physics</i> , 2019, 525, 110396.	0.9	18
12	Unusual confinement properties of a water insoluble small peptide hydrogel. <i>Chemical Science</i> , 2019, 10, 5920-5928.	3.7	38
13	Quantification of spatio-temporal scales of dynamical heterogeneity of water near lipid membranes above supercooling. <i>Soft Matter</i> , 2019, 15, 9805-9815.	1.2	9
14	Hydration dynamics of a lipid membrane: Hydrogen bond networks and lipid-lipid associations. <i>Journal of Chemical Physics</i> , 2018, 148, .	1.2	29
15	Influence of water concentrations on the phase transformation of a model surfactant/co-surfactant/water system. <i>Chemical Physics</i> , 2017, 483-484, 103-111.	0.9	7
16	Solvent Assisted Tuning of Morphology of a Peptide-Perylenediimide Conjugate: Helical Fibers to Nano-Rings and their Differential Semiconductivity. <i>Scientific Reports</i> , 2017, 7, 9485.	1.6	38
17	Trigonella seed extract ameliorates inflammation via regulation of the inflammasome adaptor protein ASC. <i>Frontiers in Bioscience - Elite</i> , 2017, 9, 246-257.	0.9	7
18	Structure and Dynamics of Phospholipid Nanodiscs from All-Atom and Coarse-Grained Simulations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6991-7002.	1.2	41

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19	Derivation of coarse-grained simulation models of chlorophyll molecules in lipid bilayers for applications in light harvesting systems. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22054-22063.	1.3	11
20	Laterally structured ripple and square phases with one and two dimensional thickness modulations in a model bilayer system. <i>Soft Matter</i> , 2014, 10, 7630-7637.	1.2	22
21	Diffusion in an elastic medium: A model for macromolecule transport across the nuclear pore complex. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 404, 65-78.	1.2	10
22	Simulation of Influence of Bilayer Melting on Dynamics and Thermodynamics of Interfacial Water. <i>Physical Review Letters</i> , 2013, 110, 018303.	2.9	19
23	Barrier crossing in one and three dimensions by a long chain. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P11024.	0.9	4
24	Entropy and dynamics of water in hydration layers of a bilayer. <i>Journal of Chemical Physics</i> , 2010, 133, 174704.	1.2	79
25	The Influence of Bilayer Composition on the Gel to Liquid Crystalline Transition. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10660-10668.	1.2	30
26	Barrier crossing by a star polymer. <i>Physical Review E</i> , 2007, 76, 051803.	0.8	3
27	Polymer in a double well: dynamics of translocation of short chains over a barrier. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S283-S296.	0.7	15
28	Rate processes with dynamical disorder: A direct variational approach. <i>Journal of Chemical Physics</i> , 2006, 124, 204111.	1.2	17