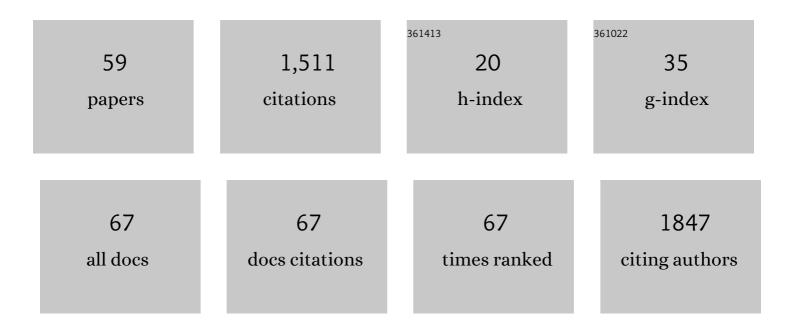
Jagannath Mondal

List of Publications by Year in descending order

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IACANNATH MONDAL

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Mechanism of Coordinated Gating and Signal Transduction in Purine Biosynthetic Enzyme Formylglycinamidine Synthetase. ACS Catalysis, 2022, 12, 1930-1944. | 11.2 | 5 |
| 2 | Solvent's Role in Cavity–Ligand Recognition Would Depend on the Mode of Ligand Diffusion. Journal of Physical Chemistry B, 2022, 126, 2952-2958. | 2.6 | 1 |
| 3 | Hi-C embedded polymer model of <i>Escherichia coli</i> reveals the origin of heterogeneous subdiffusion in chromosomal loci. Physical Review E, 2022, 105, . | 2.1 | 6 |
| 4 | DNA-Functionalized Gold Nanorods for Perioperative Optical Imaging and Photothermal Therapy of Triple-Negative Breast Cancer. ACS Applied Nano Materials, 2022, 5, 9159-9169. | 5.0 | 10 |
| 5 | Zwitterionic Osmolytes Revive Surface Charges under Salt Stress via Dual Mechanisms. Journal of Physical Chemistry Letters, 2022, 13, 5660-5668. | 4.6 | 4 |
| 6 | A Hi–C data-integrated model elucidates <i>E. coli</i> chromosome's multiscale organization at various replication stages. Nucleic Acids Research, 2021, 49, 3077-3091. | 14.5 | 18 |
| 7 | Reconciling conformational heterogeneity and substrate recognition in cytochrome P450. Biophysical Journal, 2021, 120, 1732-1745. | 0.5 | 7 |
| 8 | Conformational Reorganization of Apolipoprotein E Triggered by Phospholipid Assembly. Journal of Physical Chemistry B, 2021, 125, 5285-5295. | 2.6 | 4 |
| 9 | Mechanistic Insights on ATP's Role as a Hydrotrope. Journal of Physical Chemistry B, 2021, 125, 7717-7731. | 2.6 | 21 |
| 10 | Spontaneous transmembrane pore formation by short-chain synthetic peptide. Biophysical Journal, 2021, 120, 4557-4574. | 0.5 | 6 |
| 11 | A deep autoencoder framework for discovery of metastable ensembles in biomacromolecules. Journal of Chemical Physics, 2021, 155, 114106. | 3.0 | 14 |
| 12 | Mechanistic underpinning of cell aspect ratio-dependent emergent collective motions in swarming bacteria. Soft Matter, 2021, 17, 7322-7331. | 2.7 | 10 |
| 13 | An Appraisal of Computer Simulation Approaches in Elucidating Biomolecular Recognition Pathways. Journal of Physical Chemistry Letters, 2021, 12, 633-641. | 4.6 | 12 |
| 14 | Elucidating the Mechanism of Nitrogen Doping in Graphene Oxide: Structural Evolution of Dopants and the Role of Oxygen. Journal of Physical Chemistry C, 2021, 125, 22547-22553. | 3.1 | 3 |
| 15 | Molecular dynamics simulations elucidate oligosaccharide recognition pathways by galectin-3 at atomic resolution. Journal of Biological Chemistry, 2021, 297, 101271. | 3.4 | 3 |
| 16 | Role of molecular dynamics in optimising ligand discovery: Case study with novel inhibitor search for peptidyl t-RNA hydrolase. Chemical Physics Impact, 2021, 3, 100048. | 3.5 | 3 |
| 17 | Bottom-Up View of the Mechanism of Action of Protein-Stabilizing Osmolytes. Journal of Physical Chemistry B, 2020, 124, 11316-11323. | 2.6 | 10 |
| 18 | Unifying the Contrasting Mechanisms of Protein-Stabilizing Osmolytes. Journal of Physical Chemistry B, 2020, 124, 6565-6574. | 2.6 | 26 |

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|----|--|------|-----------|
| 19 | Nonaffine Displacements Encode Collective Conformational Fluctuations in Proteins. Journal of Chemical Theory and Computation, 2020, 16, 2508-2516. | 5.3 | 6 |
| 20 | Capturing Protein–Ligand Recognition Pathways in Coarse-Grained Simulation. Journal of Physical Chemistry Letters, 2020, 11, 5302-5311. | 4.6 | 28 |
| 21 | Structural evolution of BCN systems from graphene oxide towards electrocatalytically active atomic layers. Materials Chemistry Frontiers, 2020, 4, 2330-2338. | 5.9 | 11 |
| 22 | Engineering the hydrogen evolution reaction of transition metals: effect of Li ions. Journal of Materials Chemistry A, 2020, 8, 15795-15808. | 10.3 | 14 |
| 23 | On the role of solvent in hydrophobic cavity–ligand recognition kinetics. Journal of Chemical Physics, 2020, 152, 074104. | 3.0 | 7 |
| 24 | Role of allosteric switches and adaptor domains in long-distance cross-talk and transient tunnel formation. Science Advances, 2020, 6, eaay7919. | 10.3 | 10 |
| 25 | Membrane-Disrupting Nanofibrous Peptide Hydrogels. ACS Biomaterials Science and Engineering, 2019, 5, 4657-4670. | 5.2 | 38 |
| 26 | In Silico Reoptimization of Binding Affinity and Drug-Resistance Circumvention Ability in Kinase Inhibitors: A Case Study with RL-45 and Src Kinase. Journal of Physical Chemistry B, 2019, 123, 6664-6672. | 2.6 | 9 |
| 27 | Enhanced Photo-Electrocatalytic Hydrogen Generation in Graphene/hBN van der Waals Structures. Journal of Physical Chemistry C, 2019, 123, 17249-17254. | 3.1 | 6 |
| 28 | Osmolyte-Induced Macromolecular Aggregation Is Length-Scale Dependent. Journal of Physical Chemistry B, 2019, 123, 8697-8703. | 2.6 | 8 |
| 29 | Quantitative Assessment of the Conformational Heterogeneity in Amylose across Force Fields. Journal of Chemical Theory and Computation, 2019, 15, 6203-6212. | 5.3 | 15 |
| 30 | Osmolyte-Induced Collapse of a Charged Macromolecule. Journal of Physical Chemistry B, 2019, 123, 4636-4644. | 2.6 | 12 |
| 31 | Role of α and β relaxations in collapsing dynamics of a polymer chain in supercooled glass-forming liquid. Journal of Chemical Physics, 2019, 150, 114503. | 3.0 | 4 |
| 32 | On identifying collective displacements in apo-proteins that reveal eventual binding pathways. PLoS Computational Biology, 2019, 15, e1006665. | 3.2 | 11 |
| 33 | A brief appraisal of computational modeling of antimicrobial peptides' activity. Drug Development Research, 2019, 80, 28-32. | 2.9 | 12 |
| 34 | Atomistic Elucidation of Sorption Processes in Hydrogen Evolution Reaction on a van der Waals Heterostructure. Journal of Physical Chemistry C, 2018, 122, 10034-10041. | 3.1 | 18 |
| 35 | On the hydrogen evolution reaction activity of graphene–hBN van der Waals heterostructures. Physical Chemistry Chemical Physics, 2018, 20, 15007-15014. | 2.8 | 41 |
| 36 | Mapping the Substrate Recognition Pathway in Cytochrome P450. Journal of the American Chemical Society, 2018, 140, 17743-17752. | 13.7 | 42 |

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|----|--|------|-----------|
| 37 | Assessment and optimization of collective variables for protein conformational landscape: GB1 <i>\hat{l}^2 </i> hairpin as a case study. Journal of Chemical Physics, 2018, 149, 094101. | 3.0 | 26 |
| 38 | Atomic resolution mechanism of ligand binding to a solvent inaccessible cavity in T4 lysozyme. PLoS Computational Biology, 2018, 14, e1006180. | 3.2 | 58 |
| 39 | Heterogeneous Impacts of Protein-Stabilizing Osmolytes on Hydrophobic Interaction. Journal of Physical Chemistry B, 2018, 122, 6922-6930. | 2.6 | 22 |
| 40 | How and when does an anticancer drug leave its binding site?. Science Advances, 2017, 3, e1700014. | 10.3 | 111 |
| 41 | How Does a Hydrophobic Macromolecule Respond to a Mixed Osmolyte Environment?. Journal of Physical Chemistry B, 2016, 120, 10969-10978. | 2.6 | 16 |
| 42 | Water Dynamics in Gyroid Phases of Self-Assembled Gemini Surfactants. Journal of the American Chemical Society, 2016, 138, 2472-2475. | 13.7 | 34 |
| 43 | How a Kinase Inhibitor Withstands Gatekeeper Residue Mutations. Journal of the American Chemical Society, 2016, 138, 4608-4615. | 13.7 | 44 |
| 44 | How osmolytes influence hydrophobic polymer conformations: A unified view from experiment and theory. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9270-9275. | 7.1 | 98 |
| 45 | Mechanically-driven phase separation in a growing bacterial colony. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2166-73. | 7.1 | 95 |
| 46 | Role of water and steric constraints in the kinetics of cavity–ligand unbinding. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12015-12019. | 7.1 | 74 |
| 47 | Role of Desolvation in Thermodynamics and Kinetics of Ligand Binding to a Kinase. Journal of Chemical Theory and Computation, 2014, 10, 5696-5705. | 5.3 | 61 |
| 48 | Atomistic Simulations of Poly(ethylene oxide) in Water and an Ionic Liquid at Room Temperature. Macromolecules, 2014, 47, 438-446. | 4.8 | 50 |
| 49 | Self-Assembly of Gemini Surfactants: A Computer Simulation Study. Journal of Physical Chemistry B, 2013, 117, 4254-4262. | 2.6 | 44 |
| 50 | When Does Trimethylamine <i>N</i> -Oxide Fold a Polymer Chain and Urea Unfold It?. Journal of Physical Chemistry B, 2013, 117, 8723-8732. | 2.6 | 99 |
| 51 | How hydrophobic drying forces impact the kinetics of molecular recognition. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13277-13282. | 7.1 | 45 |
| 52 | Effect of secondary structure on the self-assembly of amphiphilic molecules: A multiscale simulation study. Journal of Chemical Physics, 2012, 136, 084902. | 3.0 | 13 |
| 53 | Sequence-Dependent p <i>K</i> _a Shift Induced by Molecular Self-Assembly: Insights from Computer Simulation. Journal of Physical Chemistry B, 2012, 116, 491-495. | 2.6 | 4 |
| 54 | Entropy-Based Mechanism of Ribosome-Nucleoid Segregation in E.Âcoli Cells. Biophysical Journal, 2011, 100, 2605-2613. | 0.5 | 96 |

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| 55 | Sequence dependent self-assembly of β-peptides: Insights from a coarse-grained model. Journal of Chemical Physics, 2010, 132, 065103. | 3.0 | 11 |
| 56 | Self-Assembly of β-Peptides: Insight from the Pair and Many-Body Free Energy of Association. Journal of Physical Chemistry C, 2010, 114, 13551-13556. | 3.1 | 11 |
| 57 | Sequence-Dependent Interaction of \hat{I}^2 -Peptides with Membranes. Journal of Physical Chemistry B, 2010, 114, 13585-13592. | 2.6 | 31 |
| 58 | Sequence-Directed Organization of β-Peptides in Self-Assembled Monolayers. Journal of Physical Chemistry B, 2009, 113, 9379-9385. | 2.6 | 9 |
| 59 | Impact of Inert Crowders on Host–Guest Recognition Process. Journal of Physical Chemistry B, 0, , . | 2.6 | 3 |