

Somnath Dutta

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,968
citations

430874

18
h-index

395702

33
g-index

42
all docs

42
docs citations

42
times ranked

3425
citing authors

#	ARTICLE	IF	CITATIONS
1	A dimeric proteomimetic prevents SARS-CoV-2 infection by dimerizing the spike protein. <i>Nature Chemical Biology</i> , 2022, 18, 1046-1055.	8.0	9
2	<i>S</i> -Adenosylmethionine-responsive cystathionine β -synthase modulates sulfur metabolism and redox balance in <i>Mycobacterium tuberculosis</i> . <i>Science Advances</i> , 2022, 8, .	10.3	10
3	Design of a highly thermotolerant, immunogenic SARS-CoV-2 spike fragment. <i>Journal of Biological Chemistry</i> , 2021, 296, 100025.	3.4	43
4	Tyrosine in the hinge region of the pore-forming motif regulates oligomeric β -barrel pore formation by <i>Vibrio cholerae</i> cytotoxin. <i>Molecular Microbiology</i> , 2021, 115, 508-525.	2.5	6
5	Simplified Approach for Preparing Graphene Oxide TEM Grids for Stained and Vitrified Biomolecules. <i>Nanomaterials</i> , 2021, 11, 643.	4.1	7
6	Immunogenicity and Protective Efficacy of a Highly Thermotolerant, Trimeric SARS-CoV-2 Receptor Binding Domain Derivative. <i>ACS Infectious Diseases</i> , 2021, 7, 2546-2564.	3.8	34
7	User-friendly, High-throughput, and Fully Automated Data Acquisition Software for Single-particle Cryo-electron Microscopy. <i>Journal of Visualized Experiments</i> , 2021, .	0.3	5
8	Conformational flexibility and structural variability of SARS-CoV-2 S protein. <i>Structure</i> , 2021, 29, 834-845.e5.	3.3	30
9	Protective Efficacy of Recombinant Influenza Hemagglutinin Ectodomain Fusions. <i>Viruses</i> , 2021, 13, 1710.	3.3	3
10	Multiple nanocages of a cyanophage small heat shock protein with icosahedral and octahedral symmetries. <i>Scientific Reports</i> , 2021, 11, 21023.	3.3	0
11	Single-particle cryo-EM reveals conformational variability of the oligomeric VCC β -barrel pore in a lipid bilayer. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	9
12	N-Terminal Region of <i>Vibrio parahaemolyticus</i> Thermostable Direct Hemolysin Regulates the Membrane-Damaging Action of the Toxin. <i>Biochemistry</i> , 2020, 59, 605-614.	2.5	7
13	One-step sequence and structure-guided optimization of HIV-1 envelope gp140. <i>Current Research in Structural Biology</i> , 2020, 2, 45-55.	2.2	12
14	Development of mCherry tagged UdgX as a highly sensitive molecular probe for specific detection of uracils in DNA. <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 38-43.	2.1	10
15	Conformational Sensors and Domain Swapping Reveal Structural and Functional Differences between β -Arrestin Isoforms. <i>Cell Reports</i> , 2019, 28, 3287-3299.e6.	6.4	54
16	Structural insights into the activation of metabotropic glutamate receptors. <i>Nature</i> , 2019, 566, 79-84.	27.8	233
17	An HIV-1 Broadly Neutralizing Antibody from a Clade C-Infected Pediatric Elite Neutralizer Potently Neutralizes the Contemporaneous and Autologous Evolving Viruses. <i>Journal of Virology</i> , 2019, 93, .	3.4	42
18	Dodecameric structure of a small heat shock protein from <i>Mycobacterium marinum</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 365-379.	2.6	5

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19	Illuminating GPCR Signaling by Cryo-EM. Trends in Cell Biology, 2018, 28, 591-594.	7.9	49
20	The Vps13p-Cdc31p complex is directly required for TGN late endosome transport and TGN homotypic fusion. Journal of Cell Biology, 2017, 216, 425-439.	5.2	73
21	Structure-based Design of Cyclically Permuted HIV-1 gp120 Trimers That Elicit Neutralizing Antibodies. Journal of Biological Chemistry, 2017, 292, 278-291.	3.4	18
22	Visualization of an N-terminal fragment of von Willebrand factor in complex with factor VIII. Blood, 2015, 126, 939-942.	1.4	38
23	Crystal Structure of the Pre-fusion Nipah Virus Fusion Glycoprotein Reveals a Novel Hexamer-of-Trimers Assembly. PLoS Pathogens, 2015, 11, e1005322.	4.7	59
24	Flavivirus NS1 Structures Reveal Surfaces for Associations with Membranes and the Immune System. Science, 2014, 343, 881-885.	12.6	315
25	Cryo-electron microscopy reveals the membrane insertion mechanism of <i>V. cholerae</i> hemolysin. Journal of Biomolecular Structure and Dynamics, 2014, 32, 1434-1442.	3.5	0
26	Structure of a modular polyketide synthase. Nature, 2014, 510, 512-517.	27.8	269
27	Structural rearrangements of a polyketide synthase module during its catalytic cycle. Nature, 2014, 510, 560-564.	27.8	168
28	Full-length G α q phospholipase C- β 3 structure reveals interfaces of the C-terminal coiled-coil domain. Nature Structural and Molecular Biology, 2013, 20, 355-362.	8.2	84
29	Molecular Mechanisms of PLC β 2 Activation. FASEB Journal, 2013, 27, 656.1.	0.5	0
30	Biochemical, Conformational, and Immunogenic Analysis of Soluble Trimeric Forms of Henipavirus Fusion Glycoproteins. Journal of Virology, 2012, 86, 11457-11471.	3.4	54
31	Ligand-Induced Architecture of the Leptin Receptor Signaling Complex. Molecular Cell, 2012, 48, 655-661.	9.7	46
32	Tandem Acyl Carrier Proteins in the Curacin Biosynthetic Pathway Promote Consecutive Multienzyme Reactions with a Synergistic Effect. Angewandte Chemie - International Edition, 2011, 50, 2795-2798.	13.8	38
33	Structural flexibility of the G α s helical domain in the $G_{\beta\gamma}$ -adrenoceptor Gs complex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16086-16091.	7.1	204
34	Three-Dimensional Structure of Different Functional Forms of the Vibrio cholerae Hemolysin Oligomer: a Cryo-Electron Microscopic Study. Journal of Bacteriology, 2010, 192, 169-178.	2.2	18
35	Comparative Immunogenicity of Bacterially Expressed Soluble Trimers and Nanoparticle Displayed Influenza Hemagglutinin Stem Immunogens. Frontiers in Immunology, 0, 13, .	4.8	3