Somnath Dutta

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3918774/publications.pdf

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	Flavivirus NS1 Structures Reveal Surfaces for Associations with Membranes and the Immune System. Science, 2014, 343, 881-885.	12.6	315
2	Structure of a modular polyketide synthase. Nature, 2014, 510, 512-517.	27.8	269
3	Structural insights into the activation of metabotropic glutamate receptors. Nature, 2019, 566, 79-84.	27.8	233
4	Structural flexibility of the GÎ±s Î±-helical domain in the Î² ₂ -adrenoceptor Gs complex. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16086-16091.	7.1	204
5	Structural rearrangements of a polyketide synthase module during its catalytic cycle. Nature, 2014, 510, 560-564.	27.8	168
6	Full-length GÎ±qâ€“phospholipase C-Î²3 structure reveals interfaces of the C-terminal coiled-coil domain. Nature Structural and Molecular Biology, 2013, 20, 355-362.	8.2	84
7	The Vps13pâ€“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
8	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
9	Biochemical, Conformational, and Immunogenic Analysis of Soluble Trimeric Forms of Henipavirus Fusion Glycoproteins. Journal of Virology, 2012, 86, 11457-11471.	3.4	54
10	Conformational Sensors and Domain Swapping Reveal Structural and Functional Differences between Î²-Arrestin Isoforms. Cell Reports, 2019, 28, 3287-3299.e6.	6.4	54
11	Illuminating GPCR Signaling by Cryo-EM. Trends in Cell Biology, 2018, 28, 591-594.	7.9	49
12	Ligand-Induced Architecture of the Leptin Receptor Signaling Complex. Molecular Cell, 2012, 48, 655-661.	9.7	46
13	Design of a highly thermotolerant, immunogenic SARS-CoV-2 spike fragment. Journal of Biological Chemistry, 2021, 296, 100025.	3.4	43
14	An HIV-1 Broadly Neutralizing Antibody from a Clade C-Infected Pediatric Elite Neutralizer Potently Neutralizes the Contemporaneous and Autologous Evolving Viruses. Journal of Virology, 2019, 93, .	3.4	42
15	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
16	Visualization of an N-terminal fragment of von Willebrand factor in complex with factor VIII. Blood, 2015, 126, 939-942.	1.4	38
17	Immunogenicity and Protective Efficacy of a Highly Thermotolerant, Trimeric SARS-CoV-2 Receptor Binding Domain Derivative. ACS Infectious Diseases, 2021, 7, 2546-2564.	3.8	34
18	Conformational flexibility and structural variability of SARS-CoV2ÂS protein. Structure, 2021, 29, 834-845.e5.	3.3	30

#	Article	IF	Citations
19	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
20	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
21	One-step sequence and structure-guided optimization of HIV-1 envelope gp140. Current Research in Structural Biology, 2020, 2, 45-55.	2.2	12
22	Development of mCherry tagged UdgX as a highly sensitive molecular probe for specific detection of uracils in DNA. Biochemical and Biophysical Research Communications, 2019, 518, 38-43.	2.1	10
23	S -Adenosylmethionineâ€“responsive cystathionine Î²-synthase modulates sulfur metabolism and redox balance in Mycobacterium tuberculosis. Science Advances, 2022, 8, .	10.3	10
24	Single-particle cryo-EM reveals conformational variability of the oligomeric VCC Î²-barrel pore in a lipid bilayer. Journal of Cell Biology, 2021, 220, .	5.2	9
25	A dimeric proteomimetic prevents SARS-CoV-2 infection by dimerizing the spike protein. Nature Chemical Biology, 2022, 18, 1046-1055.	8.0	9
26	N-Terminal Region of Vibrio parahemolyticus Thermostable Direct Hemolysin Regulates the Membrane-Damaging Action of the Toxin. Biochemistry, 2020, 59, 605-614.	2.5	7
27	Simplified Approach for Preparing Graphene Oxide TEM Grids for Stained and Vitrified Biomolecules. Nanomaterials, 2021, 11, 643.	4.1	7
28	Tyrosine in the hinge region of the poreâ€forming motif regulates oligomeric Î²â€barrel pore formation by Vibrio cholerae cytolysin. Molecular Microbiology, 2021, 115, 508-525.	2.5	6
29	Dodecameric structure of a small heat shock protein from <scp>Mycobacterium marinum</scp> M. Proteins: Structure, Function and Bioinformatics, 2019, 87, 365-379.	2.6	5
30	User-friendly, High-throughput, and Fully Automated Data Acquisition Software for Single-particle Cryo-electron Microscopy. Journal of Visualized Experiments, 2021, , .	0.3	5
31	Protective Efficacy of Recombinant Influenza Hemagglutinin Ectodomain Fusions. Viruses, 2021, 13, 1710.	3.3	3
32	Comparative Immunogenicity of Bacterially Expressed Soluble Trimers and Nanoparticle Displayed Influenza Hemagglutinin Stem Immunogens. Frontiers in Immunology, 0, 13, .	4.8	3
33	Cryo-electron microscopy reveals the membrane insertion mechanism ofV. choleraehemolysin. Journal of Biomolecular Structure and Dynamics, 2014, 32, 1434-1442.	3.5	0
34	Multiple nanocages of a cyanophage small heat shock protein with icosahedral and octahedral symmetries. Scientific Reports, 2021, 11, 21023.	3.3	0
35	Molecular Mechanisms of PLCÎ² Activation. FASEB Journal, 2013, 27, 656.1.	0.5	0