Aditya Mittal

List of Publications by Year
in descending order

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53	1,197	393982	395343
papers	citations	19 h-index	33 g-index

56	56	56	1331
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Stoichiometry Driven Universal Spatial Organization of Backbones of Folded Proteins: Are there Chargaff's Rules for Protein Folding?. Journal of Biomolecular Structure and Dynamics, 2010, 28, 133-142.	2.0	125
2	Mycobacterium tuberculosis Transcriptional Adaptation, Growth Arrest and Dormancy Phenotype Development Is Triggered by Vitamin C. PLoS ONE, 2010, 5, e10860.	1.1	104
3	Class II fusion protein of alphaviruses drives membrane fusion through the same pathway as class I proteins. Journal of Cell Biology, 2005, 169, 167-177.	2.3	67
4	Exact kinetic analysis of passive transport across a polarized confluent MDCK cell monolayer modeled as a single barrier. Journal of Pharmaceutical Sciences, 2004, 93, 2108-2123.	1.6	62
5	The Elementary Mass Action Rate Constants of P-gp Transport for a Confluent Monolayer of MDCKII-hMDR1 Cells. Biophysical Journal, 2005, 88, 715-738.	0.2	60
6	Comparative genomic and proteomic analyses of PE/PPE multigene family of Mycobacterium tuberculosis H37Rv and H37Ra reveal novel and interesting differences with implications in virulence. Nucleic Acids Research, 2012, 40, 7113-7122.	6.5	59
7	Architecture of the influenza hemagglutinin membrane fusion site. Biochimica Et Biophysica Acta - Biomembranes, 2003, 1614, 24-35.	1.4	42
8	Influenza Hemagglutinins Outside of the Contact Zone Are Necessary for Fusion Pore Expansion. Journal of Biological Chemistry, 2004, 279, 26526-26532.	1.6	42
9	Backbones of Folded Proteins Reveal Novel Invariant Amino Acid Neighborhoods. Journal of Biomolecular Structure and Dynamics, 2011, 28, 443-454.	2.0	42
10	Genetic Control of Fusion Pore Expansion in the Epidermis ofCaenorhabditis elegans. Molecular Biology of the Cell, 2007, 18, 1153-1166.	0.9	39
11	Transmembrane Domain Lengths Serve as Signatures of Organismal Complexity and Viral Transport Mechanisms. Scientific Reports, 2016, 6, 22352.	1.6	38
12	DEPLOYMENT OF MEMBRANE FUSION PROTEIN DOMAINS DURING FUSION. Cell Biology International, 2000, 24, 819-838.	1.4	36
13	The Newest View on Protein Folding: Stoichiometric and Spatial Unity in Structural and Functional Diversity. Journal of Biomolecular Structure and Dynamics, 2011, 28, 669-674.	2.0	31
14	The chemical formula of a magnetotactic bacterium. Biotechnology and Bioengineering, 2012, 109, 1205-1216.	1.7	31
15	Kinetically Differentiating Influenza Hemagglutinin Fusion and Hemifusion Machines. Biophysical Journal, 2003, 85, 1713-1724.	0.2	30
16	Spectrophotometric ferric ion biosensor fromPseudomonas fluorescens culture. Biotechnology and Bioengineering, 2008, 100, 284-296.	1.7	30
17	Comprehensive Kinetic Analysis of Influenza Hemagglutinin-Mediated Membrane Fusion: Role of Sialate Binding. Biophysical Journal, 2001, 81, 1521-1535.	0.2	29
18	A study of spatially coupled bipolar electrochemistry on the sub-micrometer scale: colloidal particles on surfaces and cylinders in nuclear-track etched membranes. Journal of Electroanalytical Chemistry, 2002, 522, 75-85.	1.9	22

#	Article	IF	Citations
19	Pulsed Bipolar Electrodeposition of Palladium onto Graphite Powder. Journal of the Electrochemical Society, 2001, 148, C647.	1.3	20
20	Measuring pKa of Activation and pKi of Inactivation for Influenza Hemagglutinin from Kinetics of Membrane Fusion of Virions and of HA Expressing Cells. Biophysical Journal, 2002, 83, 2652-2666.	0.2	19
21	Capturing native/native like structures with a physico-chemical metric (pcSM) in protein folding. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1520-1531.	1.1	19
22	Kinetics of Influenza Hemagglutinin-Mediated Membrane Fusion as a Function of Technique. Analytical Biochemistry, 2002, 303, 145-152.	1.1	18
23	Synthesis of Cellular Organelles Containing Nano-Magnets Stunts Growth of Magnetotactic Bacteria. Journal of Nanoscience and Nanotechnology, 2010, 10, 4135-4144.	0.9	18
24	D2N: Distance to the native. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1798-1807.	1.1	14
25	Statistical optimization of growth media for Paecilomyces lilacinus 6029 using non-edible oil cakes. Annals of Microbiology, 2014, 64, 515-520.	1.1	13
26	Morphological Changes in Magnetotactic Bacteria in Presence of Magnetic Fields. Journal of Biomedical Nanotechnology, 2007, 3, 75-80.	0.5	12
27	Extracting Curvature Preferences of Lipids Assembled in Flat Bilayers Shows Possible Kinetic Windows for Genesis of Bilayer Asymmetry and Domain Formation in Biological Membranes. Journal of Membrane Biology, 2013, 246, 557-570.	1.0	12
28	A statistical anomaly indicates symbiotic origins of eukaryotic membranes. Molecular Biology of the Cell, 2015, 26, 1238-1248.	0.9	12
29	Evidence for the involvement of nematocidal toxins of Purpureocillium lilacinum 6029 cultured on Karanja deoiled cake liquid medium. World Journal of Microbiology and Biotechnology, 2016, 32, 82.	1.7	12
30	Intracellular Magneto-Spatial Organization of Magnetic Organelles Inside Intact Bacterial Cells. Journal of Biomedical Nanotechnology, 2011, 7, 572-577.	0.5	11
31	Evaluation of Red CdTe and Near Infrared CdHgTe Quantum Dots by Fluorescent Imaging. Journal of Nanoscience and Nanotechnology, 2008, 8, 1155-1159.	0.9	9
32	NSOM/HRTEM Characterization of Biologically Derived Cuboâ€“Octahedral Nanomagnets. IEEE Transactions on Magnetics, 2009, 45, 4861-4864.	1.2	9
33	A possible molecular metric for biological evolvability. Journal of Biosciences, 2012, 37, 573-577.	0.5	9
34	What limits the primary sequence space of natural proteins?. Journal of Biomolecular Structure and Dynamics, 2020, 38, 4579-4583.	2.0	9
35	Correlating single cell motility with population growth dynamics for flagellated bacteria. Biotechnology and Bioengineering, 2007, 97, 1644-1649.	1.7	7
36	Osmotic tolerance of avian erythrocytes to complete hemolysis in solute free water. Scientific Reports, 2019, 9, 7976.	1.6	7

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37	Protein folding: is it simply surface to volume minimization?. Journal of Biomolecular Structure and Dynamics, 2013, 31, 953-955.	2.0	6
38	Insights into eukaryotic evolution from transmembrane domain lengths. Journal of Biomolecular Structure and Dynamics, 2018, 36, 2194-2200.	2.0	6
39	Effects of Membrane Tension on Nanopropeller Driven Bacterial Motion. Journal of Nanoscience and Nanotechnology, 2006, 6, 3854-3862.	0.9	5
40	Enhancing Nucleic Acid Detection Sensitivity of Propidium Iodide by a Three Nanometer Interaction Inside Cells and in Solutions. Journal of Nanoscience and Nanotechnology, 2009, 9, 2607-2615.	0.9	5
41	Unique and exclusive peptide signatures directly identify intrinsically disordered proteins from sequences without structural information. Journal of Biomolecular Structure and Dynamics, 2021, 39, 2885-2893.	2.0	4
42	Self-Assembly of Biological Membranes into 200â€“400 nm Aqueous Compartments. Journal of Nanoscience and Nanotechnology, 2010, 10, 3085-3090.	0.9	3
43	Extracting Signatures of Spatial Organization for Biomolecular Nanostructures. Journal of Nanoscience and Nanotechnology, 2012, 12, 8249-8257.	0.9	3
44	Self-Generated and Reproducible Dynamics in â€œGene Yearsâ€•Represent Life. Journal of Biomolecular Structure and Dynamics, 2012, 29, 609-611.	2.0	3
45	Delivery of Molecules to Cancer Cells Using Liposomes from Bacterial Cultures. Journal of Nanoscience and Nanotechnology, 2008, 8, 2328-2333.	0.9	3
46	Aspects of Biological Replication and Evolution Independent of the Central Dogma: Insights from Protein-Free Vesicular Transformations and Protein-Mediated Membrane Remodeling. Journal of Membrane Biology, 2022, , 1.	1.0	3
47	Structural disorder originates beyond narrow stoichiometric margins of amino acids in naturally occurring folded proteins. Journal of Biomolecular Structure and Dynamics, 2021, 39, 2364-2375.	2.0	2
48	Women are from Venus, are magnetic bacteria from Mars?. Nature India, 0, , .	0.0	2
49	UNIVERSALITIES IN PROTEIN TERTIARY STRUCTURES: SOME NEW CONCEPTS. , 2013, , 210-219.		1
50	On the Origin of Life and Evolution of Living Systems from a World of Biological Membranes. , 2020, , 169-201.		1
51	Signatures of spatial organizations â€“ From the universe of proteins to the universe in general. Nature Precedings, 2011, , .	0.1	0
52	Nucleic acids in disease and disorder: Understanding the language of life emerging from the â€˜ABCâ€™ of DNA. Journal of Biosciences, 2012, 37, 375-378.	0.5	0
53	Heterogenous structures and phase separations in giant vesicle preparations. Biophysical Journal, 2022, 121, 71a.	0.2	0