

# Aditya Mittal

## List of Publications by Year in descending order

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53  
papers

1,197  
citations

393982

19  
h-index

395343

33  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1331  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogenous structures and phase separations in giant vesicle preparations. Biophysical Journal, 2022, 121, 71a.	0.2	0
2	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
3	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
4	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
5	What limits the primary sequence space of natural proteins?. Journal of Biomolecular Structure and Dynamics, 2020, 38, 4579-4583.	2.0	9
6	On the Origin of Life and Evolution of Living Systems from a World of Biological Membranes. , 2020, , 169-201.		1
7	Osmotic tolerance of avian erythrocytes to complete hemolysis in solute free water. Scientific Reports, 2019, 9, 7976.	1.6	7
8	Insights into eukaryotic evolution from transmembrane domain lengths. Journal of Biomolecular Structure and Dynamics, 2018, 36, 2194-2200.	2.0	6
9	Evidence for the involvement of nematocidal toxins of <i>Purpureocillium lilacinum</i> 6029 cultured on <i>Karanja</i> deoiled cake liquid medium. World Journal of Microbiology and Biotechnology, 2016, 32, 82.	1.7	12
10	Transmembrane Domain Lengths Serve as Signatures of Organismal Complexity and Viral Transport Mechanisms. Scientific Reports, 2016, 6, 22352.	1.6	38
11	A statistical anomaly indicates symbiotic origins of eukaryotic membranes. Molecular Biology of the Cell, 2015, 26, 1238-1248.	0.9	12
12	Statistical optimization of growth media for <i>Paecilomyces lilacinus</i> 6029 using non-edible oil cakes. Annals of Microbiology, 2014, 64, 515-520.	1.1	13
13	D2N: Distance to the native. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1798-1807.	1.1	14
14	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
15	Protein folding: is it simply surface to volume minimization?. Journal of Biomolecular Structure and Dynamics, 2013, 31, 953-955.	2.0	6
16	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
17	UNIVERSALITIES IN PROTEIN TERTIARY STRUCTURES: SOME NEW CONCEPTS. , 2013, , 210-219.		1
18	Comparative genomic and proteomic analyses of PE/PPE multigene family of <i>Mycobacterium tuberculosis</i> H37Rv and H37Ra reveal novel and interesting differences with implications in virulence. Nucleic Acids Research, 2012, 40, 7113-7122.	6.5	59

#	ARTICLE	IF	CITATIONS
19	Extracting Signatures of Spatial Organization for Biomolecular Nanostructures. Journal of Nanoscience and Nanotechnology, 2012, 12, 8249-8257.	0.9	3
20	Self-Generated and Reproducible Dynamics in "Gene Years" Represent Life. Journal of Biomolecular Structure and Dynamics, 2012, 29, 609-611.	2.0	3
21	The chemical formula of a magnetotactic bacterium. Biotechnology and Bioengineering, 2012, 109, 1205-1216.	1.7	31
22	A possible molecular metric for biological evolvability. Journal of Biosciences, 2012, 37, 573-577.	0.5	9
23	Nucleic acids in disease and disorder: Understanding the language of life emerging from the "ABC"™ of DNA. Journal of Biosciences, 2012, 37, 375-378.	0.5	0
24	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
25	Backbones of Folded Proteins Reveal Novel Invariant Amino Acid Neighborhoods. Journal of Biomolecular Structure and Dynamics, 2011, 28, 443-454.	2.0	42
26	Signatures of spatial organizations " From the universe of proteins to the universe in general. Nature Precedings, 2011, , .	0.1	0
27	Intracellular Magneto-Spatial Organization of Magnetic Organelles Inside Intact Bacterial Cells. Journal of Biomedical Nanotechnology, 2011, 7, 572-577.	0.5	11
28	Self-Assembly of Biological Membranes into 200"400 nm Aqueous Compartments. Journal of Nanoscience and Nanotechnology, 2010, 10, 3085-3090.	0.9	3
29	Mycobacterium tuberculosis Transcriptional Adaptation, Growth Arrest and Dormancy Phenotype Development Is Triggered by Vitamin C. PLoS ONE, 2010, 5, e10860.	1.1	104
30	Synthesis of Cellular Organelles Containing Nano-Magnets Stunts Growth of Magnetotactic Bacteria. Journal of Nanoscience and Nanotechnology, 2010, 10, 4135-4144.	0.9	18
31	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
32	NSOM/HRTEM Characterization of Biologically Derived Cubo"Octahedral Nanomagnets. IEEE Transactions on Magnetics, 2009, 45, 4861-4864.	1.2	9
33	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
34	Spectrophotometric ferric ion biosensor from Pseudomonas fluorescens culture. Biotechnology and Bioengineering, 2008, 100, 284-296.	1.7	30
35	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
36	Delivery of Molecules to Cancer Cells Using Liposomes from Bacterial Cultures. Journal of Nanoscience and Nanotechnology, 2008, 8, 2328-2333.	0.9	3

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37	Genetic Control of Fusion Pore Expansion in the Epidermis of <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2007, 18, 1153-1166.	0.9	39
38	Morphological Changes in Magnetotactic Bacteria in Presence of Magnetic Fields. <i>Journal of Biomedical Nanotechnology</i> , 2007, 3, 75-80.	0.5	12
39	Correlating single cell motility with population growth dynamics for flagellated bacteria. <i>Biotechnology and Bioengineering</i> , 2007, 97, 1644-1649.	1.7	7
40	Effects of Membrane Tension on Nanopropeller Driven Bacterial Motion. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3854-3862.	0.9	5
41	Class II fusion protein of alphaviruses drives membrane fusion through the same pathway as class I proteins. <i>Journal of Cell Biology</i> , 2005, 169, 167-177.	2.3	67
42	The Elementary Mass Action Rate Constants of P-gp Transport for a Confluent Monolayer of MDCKII-hMDR1 Cells. <i>Biophysical Journal</i> , 2005, 88, 715-738.	0.2	60
43	Influenza Hemagglutinins Outside of the Contact Zone Are Necessary for Fusion Pore Expansion. <i>Journal of Biological Chemistry</i> , 2004, 279, 26526-26532.	1.6	42
44	Exact kinetic analysis of passive transport across a polarized confluent MDCK cell monolayer modeled as a single barrier. <i>Journal of Pharmaceutical Sciences</i> , 2004, 93, 2108-2123.	1.6	62
45	Architecture of the influenza hemagglutinin membrane fusion site. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1614, 24-35.	1.4	42
46	Kinetically Differentiating Influenza Hemagglutinin Fusion and Hemifusion Machines. <i>Biophysical Journal</i> , 2003, 85, 1713-1724.	0.2	30
47	Measuring pKa of Activation and pKi of Inactivation for Influenza Hemagglutinin from Kinetics of Membrane Fusion of Virions and of HA Expressing Cells. <i>Biophysical Journal</i> , 2002, 83, 2652-2666.	0.2	19
48	Kinetics of Influenza Hemagglutinin-Mediated Membrane Fusion as a Function of Technique. <i>Analytical Biochemistry</i> , 2002, 303, 145-152.	1.1	18
49	A study of spatially coupled bipolar electrochemistry on the sub-micrometer scale: colloidal particles on surfaces and cylinders in nuclear-track etched membranes. <i>Journal of Electroanalytical Chemistry</i> , 2002, 522, 75-85.	1.9	22
50	Pulsed Bipolar Electrodeposition of Palladium onto Graphite Powder. <i>Journal of the Electrochemical Society</i> , 2001, 148, C647.	1.3	20
51	Comprehensive Kinetic Analysis of Influenza Hemagglutinin-Mediated Membrane Fusion: Role of Sialate Binding. <i>Biophysical Journal</i> , 2001, 81, 1521-1535.	0.2	29
52	DEPLOYMENT OF MEMBRANE FUSION PROTEIN DOMAINS DURING FUSION. <i>Cell Biology International</i> , 2000, 24, 819-838.	1.4	36
53	Women are from Venus, are magnetic bacteria from Mars?. <i>Nature India</i> , 0, , .	0.0	2