Abhijit Mishra

List of Publications by Year
in descending order

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43 papers	2,228 citations	516561 16 h-index	265120 42 g-index
47 all docs	47 docs citations	47 times ranked	3532 citing authors

#	Article	IF	Citations
1	Arginineâ€rich cellâ€penetrating peptides. FEBS Letters, 2010, 584, 1806-1813.	1.3	433
2	Reversible Cellâ€Specific Drug Delivery with Aptamerâ€Functionalized Liposomes. Angewandte Chemie - International Edition, 2009, 48, 6494-6498.	7.2	343
3	Translocation of HIV TAT peptide and analogues induced by multiplexed membrane and cytoskeletal interactions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16883-16888.	3.3	287
4	Criterion for Amino Acid Composition of Defensins and Antimicrobial Peptides Based on Geometry of Membrane Destabilization. Journal of the American Chemical Society, 2011, 133, 6720-6727.	6.6	181
5	HIV TAT Forms Pores in Membranes by Inducing Saddleâ€Splay Curvature: Potential Role of Bidentate Hydrogen Bonding. Angewandte Chemie - International Edition, 2008, 47, 2986-2989.	7.2	141
6	Synthetic Antimicrobial Oligomers Induce a Composition-Dependent Topological Transition in Membranes. Journal of the American Chemical Society, 2007, 129, 12141-12147.	6.6	123
7	Influenza Virus A M2 Protein Generates Negative Gaussian Membrane Curvature Necessary for Budding and Scission. Journal of the American Chemical Society, 2013, 135, 13710-13719.	6.6	101
8	Detecting rainfall trends in twentieth century (1871â€“2006) over Orissa State, India. Climatic Change, 2012, 111, 801-817.	1.7	93
9	Squalamine as a broad-spectrum systemic antiviral agent with therapeutic potential. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15978-15983.	3.3	89
10	Arginine in Î±-Defensins. Journal of Biological Chemistry, 2012, 287, 21866-21872.	1.6	51
11	Inorganic Mercury Detection and Controlled Release of Chelating Agents from Ion-Responsive Liposomes. Chemistry and Biology, 2009, 16, 937-942.	6.2	46
12	Dynamic Light Scattering and Optical Absorption in Biological Nanofluids of Gold Nanoparticles in Poly(vinyl pyrrolidone) Molecules. Journal of Physical Chemistry C, 2009, 113, 6976-6982.	1.5	45
13	Antibacterial Polymers â€“ A Mini Review. Materials Today: Proceedings, 2018, 5, 17156-17161.	0.9	36
14	Enhancing Aqueous Solubility and Antibacterial Activity of Curcumin by Complexing with Cell-Penetrating Octaarginine. ACS Omega, 2020, 5, 19004-19013.	1.6	24
15	Surface immobilization of a short antimicrobial peptide (AMP) as an antibacterial coating. Materialia, 2019, 6, 100350.	1.3	19
16	Selective Light Emission in Nonbonding Electron Transitions in Poly(vinyl pyrrolidone) Molecules on Spin-Coating in Thin Layers. Journal of Physical Chemistry A, 2009, 113, 14067-14073.	1.1	16
17	Environmentally Benign Nanoantibiotics with a Built-in Deactivation Switch Responsive to Natural Habitats. Biomacromolecules, 2020, 21, 2187-2198.	2.6	16
18	Optical Properties in Nanofluids of Gold Nanoparticles in Poly(vinylpyrrolidone). Journal of Nanoscience and Nanotechnology, 2009, 9, 4342-4347.	0.9	15

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19	A facile preparation of rutin nanoparticles and its effects on controlled growth and morphology of calcium oxalate crystals. Journal of Crystal Growth, 2020, 540, 125635.	0.7	14
20	Generalized wavelet neural networks for evapotranspiration modeling in India. ISH Journal of Hydraulic Engineering, 2019, 25, 119-131.	1.1	13
21	Surface enhanced optical absorption and photoluminescence in nonbonding electrons in small poly(vinylpyrrolidone) molecules. Journal of Chemical Physics, 2007, 126, 084902.	1.2	12
22	Optimal Balance of Hydrophobic Content and Degree of Polymerization Results in a Potent Membrane-Targeting Antibacterial Polymer. ACS Omega, 2021, 6, 34724-34735.	1.6	12
23	Antibacterial properties of human beta defensin-3 derivative: CHRG01. Journal of Biosciences, 2018, 43, 707-715.	0.5	10
24	Grain storage: methods and measurements. Quality Assurance and Safety of Crops and Foods, 2012, 4, 144-144.	1.8	6
25	Enhanced cytocompatibility and mechanical properties of electron beam melted Ti-6Al-4V by friction stir processing. Journal of Manufacturing Processes, 2021, 72, 400-410.	2.8	6
26	Small-Angle X-ray Scattering Studies of Peptideâ€“Lipid Interactions Using the Mouse Paneth Cell Î±-Defensin Cryptdin-4. Methods in Enzymology, 2011, 492, 127-149.	0.4	5
27	Effect of antimicrobial peptide (AMP)â€“tethered stainless steel surfaces on the bacterial membrane. Materials Today Chemistry, 2021, 21, 100541.	1.7	5
28	Antibacterial properties of human beta defensin-3 derivative: CHRG01. Journal of Biosciences, 2018, 43, 707-715.	0.5	5
29	Co-delivery nanosystem of Epigallocatechin Gallate and Rutin for anticancer and antibacterial activities. Journal of Drug Delivery Science and Technology, 2022, 70, 103191.	1.4	5
30	The Effect of Alkali Treatment on Pineapple Leaf Fibers (PALF) on the Performance of PALF Reinforced Rice Starch Biocomposites. Journal of Natural Fibers, 2022, 19, 14235-14249.	1.7	5
31	Methacrylamide based antibiotic polymers with no detectable bacterial resistance. Soft Matter, 2021, 17, 3404-3416.	1.2	4
32	Exploring potential of glass surface immobilized short antimicrobial peptide (AMP) as antibacterial coatings. Materials Today: Proceedings, 2022, 49, 1367-1377.	0.9	4
33	Modulating Surface Energy and Surface Roughness for Inhibiting Microbial Growth. Materials Horizons, 2020, , 109-121.	0.3	4
34	Rutin-loaded polymeric nanorods alleviate nephrolithiasis by inhibiting inflammation and oxidative stress in vivo and in vitro. Food and Function, 2022, 13, 3632-3648.	2.1	4
35	Emergent antibacterial activity of N-(thiazol-2-yl)benzenesulfonamides in conjunction with cell-penetrating octaarginine. RSC Advances, 2021, 11, 28581-28592.	1.7	3
36	Intracellular Bacterial Targeting by a Thiazolyl Benzenesulfonamide and Octaarginine Peptide Complex. ACS Applied Bio Materials, 2022, 5, 3257-3268.	2.3	3

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37	Experimental and simulation studies reveal mechanism of action of human defensin derivatives. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1864, 183824.	1.4	2
38	A NEW FERROELECTRIC PbZr0.52Ti0.48O3 POLYMORPH OF NANOPARTICLES. Modern Physics Letters B, 2006, 20, 159-167.	1.0	1
39	Designing a short, potent, pore-forming antimicrobial peptide. Materials Today: Proceedings, 2021, , .	0.9	1
40	Structural Transitions in Lipid Membranes. Behavior Research Methods, 2014, 19, 103-137.	2.3	0
41	Synthesis of Lysine Mimicking Membrane Active Antimicrobial Polymers. Materials Horizons, 2018, , 29-37.	0.3	0
42	Antibacterial Activity of Antimicrobial Peptide (AMP) Grafted Polystyrene Surface. Materials Horizons, 2018, , 39-46.	0.3	0
43	Material Selection for Plastic Products. , 2021, , .		0