

# Abhijit Mishra

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Exploring potential of glass surface immobilized short antimicrobial peptide (AMP) as antibacterial coatings. <i>Materials Today: Proceedings</i> , 2022, 49, 1367-1377.	0.9	4
2	Rutin-loaded polymeric nanorods alleviate nephrolithiasis by inhibiting inflammation and oxidative stress <i>in vivo</i> and <i>in vitro</i> . <i>Food and Function</i> , 2022, 13, 3632-3648.	2.1	4
3	Co-delivery nanosystem of Epigallocatechin Gallate and Rutin for anticancer and antibacterial activities. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103191.	1.4	5
4	The Effect of Alkali Treatment on Pineapple Leaf Fibers (PALF) on the Performance of PALF Reinforced Rice Starch Biocomposites. <i>Journal of Natural Fibers</i> , 2022, 19, 14235-14249.	1.7	5
5	Intracellular Bacterial Targeting by a Thiazolyl Benzenesulfonamide and Octaarginine Peptide Complex. <i>ACS Applied Bio Materials</i> , 2022, 5, 3257-3268.	2.3	3
6	Methacrylamide based antibiotic polymers with no detectable bacterial resistance. <i>Soft Matter</i> , 2021, 17, 3404-3416.	1.2	4
7	Material Selection for Plastic Products. , 2021, , .		0
8	Emergent antibacterial activity of N-(thiazol-2-yl)benzenesulfonamides in conjunction with cell-penetrating octaarginine. <i>RSC Advances</i> , 2021, 11, 28581-28592.	1.7	3
9	Effect of antimicrobial peptide (AMP)â€™tethered stainless steel surfaces on the bacterial membrane. <i>Materials Today Chemistry</i> , 2021, 21, 100541.	1.7	5
10	Enhanced cytocompatibility and mechanical properties of electron beam melted Ti-6Al-4V by friction stir processing. <i>Journal of Manufacturing Processes</i> , 2021, 72, 400-410.	2.8	6
11	Designing a short, potent, pore-forming antimicrobial peptide. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	1
12	Experimental and simulation studies reveal mechanism of action of human defensin derivatives. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1864, 183824.	1.4	2
13	Optimal Balance of Hydrophobic Content and Degree of Polymerization Results in a Potent Membrane-Targeting Antibacterial Polymer. <i>ACS Omega</i> , 2021, 6, 34724-34735.	1.6	12
14	Enhancing Aqueous Solubility and Antibacterial Activity of Curcumin by Complexing with Cell-Penetrating Octaarginine. <i>ACS Omega</i> , 2020, 5, 19004-19013.	1.6	24
15	Environmentally Benign Nanoantibiotics with a Built-in Deactivation Switch Responsive to Natural Habitats. <i>Biomacromolecules</i> , 2020, 21, 2187-2198.	2.6	16
16	A facile preparation of rutin nanoparticles and its effects on controlled growth and morphology of calcium oxalate crystals. <i>Journal of Crystal Growth</i> , 2020, 540, 125635.	0.7	14
17	Modulating Surface Energy and Surface Roughness for Inhibiting Microbial Growth. <i>Materials Horizons</i> , 2020, , 109-121.	0.3	4
18	Surface immobilization of a short antimicrobial peptide (AMP) as an antibacterial coating. <i>Materialia</i> , 2019, 6, 100350.	1.3	19

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19	Generalized wavelet neural networks for evapotranspiration modeling in India. ISH Journal of Hydraulic Engineering, 2019, 25, 119-131.	1.1	13
20	Antibacterial Polymers – A Mini Review. Materials Today: Proceedings, 2018, 5, 17156-17161.	0.9	36
21	Synthesis of Lysine Mimicking Membrane Active Antimicrobial Polymers. Materials Horizons, 2018, , 29-37.	0.3	0
22	Antibacterial Activity of Antimicrobial Peptide (AMP) Grafted Polystyrene Surface. Materials Horizons, 2018, , 39-46.	0.3	0
23	Antibacterial properties of human beta defensin-3 derivative: CHRGO1. Journal of Biosciences, 2018, 43, 707-715.	0.5	10
24	Antibacterial properties of human beta defensin-3 derivative: CHRGO1. Journal of Biosciences, 2018, 43, 707-715.	0.5	5
25	Structural Transitions in Lipid Membranes. Behavior Research Methods, 2014, 19, 103-137.	2.3	0
26	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
27	Arginine in $\beta$ -Defensins. Journal of Biological Chemistry, 2012, 287, 21866-21872.	1.6	51
28	Grain storage: methods and measurements. Quality Assurance and Safety of Crops and Foods, 2012, 4, 144-144.	1.8	6
29	Detecting rainfall trends in twentieth century (1871–2006) over Orissa State, India. Climatic Change, 2012, 111, 801-817.	1.7	93
30	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
31	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
32	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
33	Small-Angle X-ray Scattering Studies of Peptide–Lipid Interactions Using the Mouse Paneth Cell $\beta$ -Defensin Cryptdin-4. Methods in Enzymology, 2011, 492, 127-149.	0.4	5
34	Arginine-rich cell-penetrating peptides. FEBS Letters, 2010, 584, 1806-1813.	1.3	433
35	Optical Properties in Nanofluids of Gold Nanoparticles in Poly(vinylpyrrolidone). Journal of Nanoscience and Nanotechnology, 2009, 9, 4342-4347.	0.9	15
36	Reversible Cell-Specific Drug Delivery with Aptamer-Functionalized Liposomes. Angewandte Chemie - International Edition, 2009, 48, 6494-6498.	7.2	343

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37	Inorganic Mercury Detection and Controlled Release of Chelating Agents from Ion-Responsive Liposomes. <i>Chemistry and Biology</i> , 2009, 16, 937-942.	6.2	46
38	Dynamic Light Scattering and Optical Absorption in Biological Nanofluids of Gold Nanoparticles in Poly(vinyl pyrrolidone) Molecules. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6976-6982.	1.5	45
39	Selective Light Emission in Nonbonding Electron Transitions in Poly(vinyl pyrrolidone) Molecules on Spin-Coating in Thin Layers. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14067-14073.	1.1	16
40	HIV TAT Forms Pores in Membranes by Inducing Saddle-Shape Curvature: Potential Role of Bidentate Hydrogen Bonding. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2986-2989.	7.2	141
41	Surface enhanced optical absorption and photoluminescence in nonbonding electrons in small poly(vinylpyrrolidone) molecules. <i>Journal of Chemical Physics</i> , 2007, 126, 084902.	1.2	12
42	Synthetic Antimicrobial Oligomers Induce a Composition-Dependent Topological Transition in Membranes. <i>Journal of the American Chemical Society</i> , 2007, 129, 12141-12147.	6.6	123
43	A NEW FERROELECTRIC $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ POLYMORPH OF NANOPARTICLES. <i>Modern Physics Letters B</i> , 2006, 20, 159-167.	1.0	1