

# Alok Kumar Panda

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26 papers	559 citations	13 h-index	23 g-index
28 ext. papers	639 ext. citations	4.7 avg, IF	3.49 L-index

#	Paper	IF	Citations
26	Role of ATP-Small Heat Shock Protein Interaction in Human Diseases.. <i>Frontiers in Molecular Biosciences</i> , <b>2022</b> , 9, 844826	5.6	0
25	Development of Submergence-Tolerant, Bacterial Blight-Resistant, and High-Yielding Near Isogenic Lines of Popular Variety, SwarnaX Through Marker-Assisted Breeding Approach. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 672618	6.2	5
24	Marker-assisted selection for transfer of submergence tolerance, bacterial blight resistance and yield enhancement in the rice backcross derivatives. <i>Australian Journal of Crop Science</i> , <b>2020</b> , 1288-1294	0.5	3
23	M. leprae HSP18 suppresses copper (II) mediated ROS generation: Effect of redox stress on its structure and function. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 146, 648-660	7.9	4
22	The impact of different mutations at arginine141 on the structure, subunit exchange dynamics and chaperone activity of Hsp16.3. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2020</b> , 88, 759-774	4.2	1
21	Cover Image, Volume 88, Issue 6. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2020</b> , 88, C1	4.2	
20	Depicting the DNA binding and photo-nuclease ability of anti-mycobacterial drug rifampicin: A biophysical and molecular docking perspective. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 127, 187-196	7.9	10
19	DNA minor groove binding of a well known anti-mycobacterial drug dapson: A spectroscopic, viscometric and molecular docking study. <i>Archives of Biochemistry and Biophysics</i> , <b>2019</b> , 665, 107-113	4.1	21
18	Probing the structure-function relationship of Mycobacterium leprae HSP18 under different UV radiations. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 119, 604-616	7.9	8
17	Evidences for zinc (II) and copper (II) ion interactions with Mycobacterium leprae HSP18: Effect on its structure and chaperone function. <i>Journal of Inorganic Biochemistry</i> , <b>2018</b> , 188, 62-75	4.2	5
16	Mercury based drug in ancient India: The red sulfide of mercury in nanoscale. <i>Journal of Ayurveda and Integrative Medicine</i> , <b>2017</b> , 8, 93-98	3.3	10
15	Monomeric and Dimeric Oxidomolybdenum(V and VI) Complexes, Cytotoxicity, and DNA Interaction Studies: Molybdenum Assisted C?N Bond Cleavage of Salophen Ligands. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 11190-11210	5.1	37
14	The C-terminal extension of Mycobacterium tuberculosis Hsp16.3 regulates its oligomerization, subunit exchange dynamics and chaperone function. <i>FEBS Journal</i> , <b>2017</b> , 284, 277-300	5.7	13
13	Differential role of arginine mutations on the structure and functions of Ecrystallin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 199-210	4	16
12	A study of DNA/BSA interaction and catalytic potential of oxidovanadium(v) complexes with ONO donor ligands. <i>Dalton Transactions</i> , <b>2016</b> , 45, 18292-18307	4.3	46
11	Conformational perturbation, hydrophobic interactions and oligomeric association are responsible for the enhanced chaperone function of Mycobacterium leprae HSP18 under pre-thermal condition. <i>RSC Advances</i> , <b>2016</b> , 6, 62146-62156	3.7	10
10	Interaction of ATP with a small heat shock protein from Mycobacterium leprae: effect on its structure and function. <i>PLoS Neglected Tropical Diseases</i> , <b>2015</b> , 9, e0003661	4.8	11

9	Oxidovanadium(V) complexes of aroylhydrazones incorporating heterocycles: synthesis, characterization and study of DNA binding, photo-induced DNA cleavage and cytotoxic activities. <i>RSC Advances</i> , <b>2015</b> , 5, 51852-51867	3.7	32
8	Evaluation of the cell cytotoxicity and DNA/BSA binding and cleavage activity of some dioxidovanadium(V) complexes containing aroylhydrazones. <i>Journal of Inorganic Biochemistry</i> , <b>2015</b> , 144, 1-12	4.2	31
7	Synthesis, X-ray structure and in vitro cytotoxicity studies of Cu(I/II) complexes of thiosemicarbazone: special emphasis on their interactions with DNA. <i>Dalton Transactions</i> , <b>2015</b> , 44, 6140-6157	4.3	76
6	Role of Subunit Exchange and Electrostatic Interactions on the Chaperone Activity of Mycobacterium leprae HSP18. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129734	3.7	9
5	Syntheses and structural investigation of some alkali metal ion-mediated LV(V)O <sub>2</sub> (-) (L(2-) = tridentate ONO ligands) species: DNA binding, photo-induced DNA cleavage and cytotoxic activities. <i>Dalton Transactions</i> , <b>2014</b> , 43, 10139-56	4.3	48
4	A S52P mutation in the $\alpha$ -crystallin domain of Mycobacterium leprae HSP18 reduces its oligomeric size and chaperone function. <i>FEBS Journal</i> , <b>2013</b> , 280, 5994-6009	5.7	16
3	Acetylation of $\alpha$ -crystallin in the human lens: effects on structure and chaperone function. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2012</b> , 1822, 120-9	6.9	48
2	Exploring sustainable technique on natural dye extraction from native plants for textile: identification of colourants, colourimetric analysis of dyed yarns and their antimicrobial evaluation. <i>Journal of Cleaner Production</i> , <b>2012</b> , 37, 257-264	10.3	63
1	Hydroimidazolone modification of the conserved Arg12 in small heat shock proteins: studies on the structure and chaperone function using mutant mimics. <i>PLoS ONE</i> , <b>2012</b> , 7, e30257	3.7	36