

Ravi Pratap Barnwal

List of Publications by Year in descending order

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papers

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516710

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46
docs citations

46
times ranked

991
citing authors

#	ARTICLE	IF	CITATIONS
1	Highlighting the Potential Role of Exosomes as the Targeted Nanotherapeutic Carrier in Metastatic Breast Cancer. <i>Current Drug Delivery</i> , 2023, 20, 317-334.	1.6	3
2	In silico characterization of mutations circulating in SARS-CoV-2 structural proteins. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 8216-8231.	3.5	11
3	<scp>RNA</scp> thermometers and other regulatory elements: Diversity and importance in bacterial pathogenesis. <i>Wiley Interdisciplinary Reviews RNA</i> , 2022, 13, e1711.	6.4	5
4	Anticancer Biosurfactant-Loaded PLA-PEG Nanoparticles Induce Apoptosis in Human MDA-MB-231 Breast Cancer Cells. <i>ACS Omega</i> , 2022, 7, 5231-5241.	3.5	13
5	Development of magnetic nanoparticle assisted aptamer-quantum dot based biosensor for the detection of <i>Escherichia coli</i> in water samples. <i>Science of the Total Environment</i> , 2022, 831, 154857.	8.0	18
6	Blood-brain barrier: emerging trends on transport models and new-age strategies for therapeutics intervention against neurological disorders. <i>Molecular Brain</i> , 2022, 15, .	2.6	33
7	Cyclodextrin Derivative Enhances the Ophthalmic Delivery of Poorly Soluble Azithromycin. <i>ACS Omega</i> , 2022, 7, 23050-23060.	3.5	2
8	Tuberculosis: An Overview of the Immunogenic Response, Disease Progression, and Medicinal Chemistry Efforts in the Last Decade toward the Development of Potential Drugs for Extensively Drug-Resistant Tuberculosis Strains. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 4359-4395.	6.4	36
9	Carbon Based Nanodots in Early Diagnosis of Cancer. <i>Frontiers in Chemistry</i> , 2021, 9, 669169.	3.6	8
10	SARS-CoV-2: Insights into its structural intricacies and functional aspects for drug and vaccine development. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 45-60.	7.5	14
11	Fluorescent quantum dots: An insight on synthesis and potential biological application as drug carrier in cancer. <i>Biochemistry and Biophysics Reports</i> , 2021, 26, 100962.	1.3	21
12	Architectural and functional details of CF IA proteins involved in yeast 3'-end pre-mRNA processing and its significance for eukaryotes: A concise review. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 387-400.	7.5	1
13	Mucormycosis Amid COVID-19 Crisis: Pathogenesis, Diagnosis, and Novel Treatment Strategies to Combat the Spread. <i>Frontiers in Microbiology</i> , 2021, 12, 794176.	3.5	12
14	NMR structure and dynamics of inhibitory repeat domain variant 12, a plant protease inhibitor from <i>Capsicum annuum</i> , and its structural relationship to other plant protease inhibitors. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1388-1397.	3.5	3
15	Statistical analysis of intermolecular interactions in trypsin-inhibitor complexes. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 5287-5292.	3.5	0
16	¹ H NMR-Based Metabolic Signatures in the Liver and Brain in a Rat Model of Hepatic Encephalopathy. <i>Journal of Proteome Research</i> , 2020, 19, 3668-3679.	3.7	5
17	Global trends in pesticides: A looming threat and viable alternatives. <i>Ecotoxicology and Environmental Safety</i> , 2020, 201, 110812.	6.0	250
18	Comparative structure, dynamics and evolution of acyl-carrier proteins from <i>Borrelia burgdorferi</i> , <i>Brucella melitensis</i> and <i>Rickettsia prowazekii</i> . <i>Biochemical Journal</i> , 2020, 477, 491-508.	3.7	5

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19	<p>Development of biosurfactant-based graphene quantum dot conjugate as a novel and fluorescent theranostic tool for cancer</p>. International Journal of Nanomedicine, 2019, Volume 14, 809-818.	6.7	45
20	¹ H, ¹³ C and ¹⁵ N NMR assignments of two plant protease inhibitors (IRD7 and IRD12) from the plant <i>Capsicum annuum</i> . Biomolecular NMR Assignments, 2019, 13, 31-35.	0.8	2
21	A Review on Status of Nanotechnology in Pharmaceutical Sciences. International Journal of Drug Delivery Technology, 2019, 9, 98-103.	0.1	5
22	Biomedical Potential of Graphene oxide based Nanoformulations: An Overview. International Journal of Drug Delivery Technology, 2019, 9, 109-113.	0.1	2
23	Applications of NMR to structure determination of RNAs large and small. Archives of Biochemistry and Biophysics, 2017, 628, 42-56.	3.0	98
24	Structure and mechanism of a molecular rheostat, an RNA thermometer that modulates immune evasion by <i>Neisseria meningitidis</i> . Nucleic Acids Research, 2016, 44, gkw584.	14.5	40
25	Designed β -sheet peptides inhibit amyloid formation by targeting toxic oligomers. ELife, 2014, 3, e01681.	6.0	67
26	Structural and biochemical analysis of the assembly and function of the yeast pre-mRNA 3' end processing complex CF I. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21342-21347.	7.1	17
27	Guanidine-HCl Dependent Structural Unfolding of M-Crystallin: Fluctuating Native State Like Topologies and Intermolecular Association. PLoS ONE, 2012, 7, e42948.	2.5	4
28	Calmodulin-like Protein from <i>Entamoeba histolytica</i> : Solution Structure and Calcium-Binding Properties of a Partially Folded Protein. Biochemistry, 2011, 50, 181-193.	2.5	16
29	NMR structure of an acyl-carrier protein from <i>Borrelia burgdorferi</i> . Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1137-1140.	0.7	5
30	Temperature-dependent oligomerization in M-crystallin: Lead or lag toward cataract, an NMR perspective. Proteins: Structure, Function and Bioinformatics, 2011, 79, 569-580.	2.6	7
31	Root-mean-square deviation-based rapid backbone resonance assignments in proteins. Magnetic Resonance in Chemistry, 2010, 48, 793-797.	1.9	4
32	Complete backbone assignment of a Ca ²⁺ -binding protein of the β -crystallin superfamily from <i>Methanosarcina acetivorans</i> , at two denaturant concentrations. Biomolecular NMR Assignments, 2009, 3, 107-110.	0.8	5
33	Interaction of Follicle-Stimulating Hormone (FSH) Receptor Binding Inhibitor-8: A Novel FSH-Binding Inhibitor, with FSH and its Receptor. Chemical Biology and Drug Design, 2009, 73, 637-643.	3.2	18
34	Solution Structure and Calcium-Binding Properties of M-Crystallin, A Primordial β -Crystallin from Archaea. Journal of Molecular Biology, 2009, 386, 675-689.	4.2	52
35	Double-Stranded RNA Binding Domain (dsRBD) of PKR Shows Variable Dynamics in the Presence of Bacteriophage Pf1: An NMR Insight and its Possible Implications. The Open Structural Biology Journal, 2009, 3, 42-50.	0.1	0
36	Identification of C-terminal neighbours of amino acid residues without an aliphatic ¹³ C as an aid to NMR assignments in proteins. Journal of Biomolecular NMR, 2008, 41, 191-197.	2.8	24

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37	Chemical shift based editing of CH ₃ groups in fractionally ¹³ C-labelled proteins using GFT (3, 2)D CT-HCCH-COSY: stereospecific assignments of CH ₃ groups of Val and Leu residues. <i>Journal of Biomolecular NMR</i> , 2008, 42, 149-154.	2.8	14
38	Sequence specific ¹ H, ¹³ C and ¹⁵ N resonance assignments of a calmodulin-like calcium-binding protein from the protozoan parasite <i>Entamoeba histolytica</i> (EhCaM). <i>Biomolecular NMR Assignments</i> , 2008, 2, 77-79.	0.8	3
39	Rapid Measurement of Pseudocontact Shifts in Paramagnetic Proteins by GFT NMR Spectroscopy. <i>The Open Magnetic Resonance Journal</i> , 2008, 1, 16-28.	0.5	13
40	Rapid measurement of ³ J(HN- ¹ H) and ³ J(N- ¹ H ²) coupling constants in polypeptides. <i>Journal of Biomolecular NMR</i> , 2007, 39, 259-263.	2.8	29
41	NMR Assignment of M-crystallin: A Novel Ca ²⁺ Binding Protein of the ¹² / ₁₃ -crystallin Superfamily from <i>Methanosarcina acetivorans</i> . <i>Journal of Biomolecular NMR</i> , 2006, 36, 32-32.	2.8	19
42	Methyl dynamics for understanding hydrophobic core packing of dynamically different motifs of double-stranded RNA binding domain of protein kinase R. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 62, 501-508.	2.6	6