

# Ravi Pratap Barnwal

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8692062/publications.pdf>

Version: 2024-02-01

42  
papers

937  
citations

516710

16  
h-index

477307

29  
g-index

46  
all docs

46  
docs citations

46  
times ranked

991  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Global trends in pesticides: A looming threat and viable alternatives. <i>Ecotoxicology and Environmental Safety</i> , 2020, 201, 110812.  | 6.0  | 250       |
| 2  | Applications of NMR to structure determination of RNAs large and small. <i>Archives of Biochemistry and Biophysics</i> , 2017, 628, 42-56.   | 3.0  | 98        |
| 3  | Designed $\beta$ -sheet peptides inhibit amyloid formation by targeting toxic oligomers. <i>ELife</i> , 2014, 3, e01681.   | 6.0  | 67        |
| 4  | Solution Structure and Calcium-Binding Properties of M-Crystallin, A Primordial $\beta$ -Crystallin from Archaea. <i>Journal of Molecular Biology</i> , 2009, 386, 675-689.  | 4.2  | 52        |
| 5  | &lt;p&gt;Development of biosurfactant-based graphene quantum dot conjugate as a novel and fluorescent theranostic tool for cancer&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 809-818.  | 6.7  | 45        |
| 6  | Structure and mechanism of a molecular rheostat, an RNA thermometer that modulates immune evasion by <i>Neisseria meningitidis</i> . <i>Nucleic Acids Research</i> , 2016, 44, gkw584.   | 14.5 | 40        |
| 7  | 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        |
| 8  | 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        |
| 9  | Rapid measurement of $^3J(\text{HN}^{\alpha}\text{H}^{\beta})$ and $^3J(\text{N}^{\alpha}\text{H}^{\beta})$ coupling constants in polypeptides. <i>Journal of Biomolecular NMR</i> , 2007, 39, 259-263.  | 2.8  | 29        |
| 10 | Identification of C-terminal neighbours of amino acid residues without an aliphatic $^{13}\text{C}$ as an aid to NMR assignments in proteins. <i>Journal of Biomolecular NMR</i> , 2008, 41, 191-197.  | 2.8  | 24        |
| 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 | NMR Assignment of M-crystallin: A Novel $\text{Ca}^{2+}$ Binding Protein of the $\beta$ -crystallin Superfamily from <i>Methanosarcina acetivorans</i> . <i>Journal of Biomolecular NMR</i> , 2006, 36, 32-32.   | 2.8  | 19        |
| 13 | Interaction of Follicle-stimulating Hormone (FSH) Receptor Binding Inhibitor: A Novel FSH-binding Inhibitor, with FSH and its Receptor. <i>Chemical Biology and Drug Design</i> , 2009, 73, 637-643.   | 3.2  | 18        |
| 14 | 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        |
| 15 | Structural and biochemical analysis of the assembly and function of the yeast pre-mRNA 3' end processing complex CF I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21342-21347.  | 7.1  | 17        |
| 16 | Calmodulin-like Protein from <i>Entamoeba histolytica</i> : Solution Structure and Calcium-Binding Properties of a Partially Folded Protein. <i>Biochemistry</i> , 2011, 50, 181-193.  | 2.5  | 16        |
| 17 | Chemical shift based editing of $\text{CH}_3$ groups in fractionally $^{13}\text{C}$ -labelled proteins using GFT (3, 2)D CT-HCCH-COSY: stereospecific assignments of $\text{CH}_3$ groups of Val and Leu residues. <i>Journal of Biomolecular NMR</i> , 2008, 42, 149-154.                | 2.8  | 14        |
| 18 | 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        |

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|----|--|-----|-----------|
| 19 | Rapid Measurement of Pseudocontact Shifts in Paramagnetic Proteins by GFT NMR Spectroscopy. The Open Magnetic Resonance Journal, 2008, 1, 16-28.   | 0.5 | 13        |
| 20 | Anticancer Biosurfactant-Loaded PLA-PEG Nanoparticles Induce Apoptosis in Human MDA-MB-231 Breast Cancer Cells. ACS Omega, 2022, 7, 5231-5241.   | 3.5 | 13        |
| 21 | Mucormycosis Amid COVID-19 Crisis: Pathogenesis, Diagnosis, and Novel Treatment Strategies to Combat the Spread. Frontiers in Microbiology, 2021, 12, 794176.  | 3.5 | 12        |
| 22 | In silico characterization of mutations circulating in SARS-CoV-2 structural proteins. Journal of Biomolecular Structure and Dynamics, 2022, 40, 8216-8231.  | 3.5 | 11        |
| 23 | Carbon Based Nanodots in Early Diagnosis of Cancer. Frontiers in Chemistry, 2021, 9, 669169.   | 3.6 | 8         |
| 24 | 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         |
| 25 | Methyl dynamics for understanding hydrophobic core packing of dynamically different motifs of double-stranded RNA binding domain of protein kinase R. Proteins: Structure, Function and Bioinformatics, 2005, 62, 501-508.                                   | 2.6 | 6         |
| 26 | Complete backbone assignment of a Ca <sup>2+</sup> -binding protein of the $\beta$ 2 $\beta$ 3-crystallin superfamily from Methanosarcina acetivorans, at two denaturant concentrations. Biomolecular NMR Assignments, 2009, 3, 107-110.                     | 0.8 | 5         |
| 27 | NMR structure of an acyl-carrier protein from Borrelia burgdorferi. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1137-1140.  | 0.7 | 5         |
| 28 | <sup>1</sup> H NMR-Based Metabolic Signatures in the Liver and Brain in a Rat Model of Hepatic Encephalopathy. Journal of Proteome Research, 2020, 19, 3668-3679.  | 3.7 | 5         |
| 29 | Comparative structure, dynamics and evolution of acyl-carrier proteins from Borrelia burgdorferi, Brucella melitensis and Rickettsia prowazekii. Biochemical Journal, 2020, 477, 491-508.  | 3.7 | 5         |
| 30 | A Review on Status of Nanotechnology in Pharmaceutical Sciences. International Journal of Drug Delivery Technology, 2019, 9, 98-103.   | 0.1 | 5         |
| 31 | RNA thermometers and other regulatory elements: Diversity and importance in bacterial pathogenesis. Wiley Interdisciplinary Reviews RNA, 2022, 13, e1711.  | 6.4 | 5         |
| 32 | Root-mean-square-deviation-based rapid backbone resonance assignments in proteins. Magnetic Resonance in Chemistry, 2010, 48, 793-797.   | 1.9 | 4         |
| 33 | Guanidine-HCl Dependent Structural Unfolding of M-Crystallin: Fluctuating Native State Like Topologies and Intermolecular Association. PLoS ONE, 2012, 7, e42948.  | 2.5 | 4         |
| 34 | Sequence specific <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N resonance assignments of a calmodulin-like calcium-binding protein from the protozoan parasite Entamoeba histolytica (EhCaM). Biomolecular NMR Assignments, 2008, 2, 77-79.            | 0.8 | 3         |
| 35 | NMR structure and dynamics of inhibitory repeat domain variant 12, a plant protease inhibitor from Capsicum annuum, and its structural relationship to other plant protease inhibitors. Journal of Biomolecular Structure and Dynamics, 2020, 38, 1388-1397. | 3.5 | 3         |
| 36 | Highlighting the Potential Role of Exosomes as the Targeted Nanotherapeutic Carrier in Metastatic Breast Cancer. Current Drug Delivery, 2023, 20, 317-334.   | 1.6 | 3         |

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| 37 | <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N NMR assignments of two plant protease inhibitors (IRD7 and IRD12) from the plant <i>Capsicum annuum</i> . <i>Biomolecular NMR Assignments</i> , 2019, 13, 31-35.                       | 0.8 | 2         |
| 38 | Biomedical Potential of Graphene oxide based Nanoformulations: An Overview. <i>International Journal of Drug Delivery Technology</i> , 2019, 9, 109-113.   | 0.1 | 2         |
| 39 | Cyclodextrin Derivative Enhances the Ophthalmic Delivery of Poorly Soluble Azithromycin. <i>ACS Omega</i> , 2022, 7, 23050-23060.  | 3.5 | 2         |
| 40 | 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         |
| 41 | Statistical analysis of intermolecular interactions in trypsin-inhibitor complexes. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 5287-5292.   | 3.5 | 0         |
| 42 | Double-Stranded RNA Binding Domain (dsRBD) of PKR Shows Variable Dynamics in the Presence of Bacteriophage Pf1: An NMR Insight and its Possible Implications. <i>The Open Structural Biology Journal</i> , 2009, 3, 42-50.                 | 0.1 | 0         |