

Ramakrishna V Hosur

List of Publications by Year in descending order

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107
papers

1,546
citations

361413

20
h-index

395702

33
g-index

110
all docs

110
docs citations

110
times ranked

1316
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting disorders in unstructured and structured proteins in various diseases. <i>Biophysical Chemistry</i> , 2022, 281, 106742.	2.8	11
2	Mahalanobis distance correlation: A novel approach for quantitating changes in multidimensional NMR spectra in biological applications. <i>Journal of Magnetic Resonance</i> , 2022, 337, 107165.	2.1	2
3	Ashwagandha-polyphenols-functionalized gold nanoparticles facilitate apoptosis by perturbing microtubule assembly dynamics in breast cancer cells. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 70, 103225.	3.0	1
4	Triphala polyphenols-functionalized gold nanoparticles impair cancer cell survival through induction of tubulin dysfunction. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 61, 102167.	3.0	7
5	Modulation of α -synuclein fibrillation by plant metabolites, daidzein, fisetin and scopoletin under physiological conditions. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1278-1291.	7.5	21
6	Title of the manuscript: Mechanistic insights into chalcone butein-induced inhibition of α -synuclein fibrillation: Biophysical and insilico studies. <i>Journal of Molecular Liquids</i> , 2021, 334, 116105.	4.9	10
7	Replica exchange molecular dynamics simulations reveal self-association sites in M-crystallin caused by mutations provide insights of cataract. <i>Scientific Reports</i> , 2021, 11, 23270.	3.3	4
8	Molecular study of binding of Plasmodium ribosomal protein P2 to erythrocytes. <i>Biochimie</i> , 2020, 176, 181-191.	2.6	3
9	All-in-one NMR spectroscopy of small organic molecules: complete chemical shift assignment from a single NMR experiment. <i>RSC Advances</i> , 2020, 10, 21174-21179.	3.6	7
10	Ultraclean Pure Shift NMR Spectroscopy with Adiabatic Composite Refocusing Pulses: Application to Metabolite Samples. <i>ChemistrySelect</i> , 2019, 4, 9893-9896.	1.5	0
11	Natural compound safranal driven inhibition and dis-aggregation of α -synuclein fibrils. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 585-595.	7.5	32
12	Triphala inhibits alpha-synuclein fibrillization and their interaction study by NMR provides insights into the self-association of the protein. <i>RSC Advances</i> , 2019, 9, 28470-28477.	3.6	7
13	Mechanistic Insights from Replica Exchange Molecular Dynamics Simulations into Mutation Induced Disordered-to-Ordered Transition in Hahellin, a ^2H -Crystallin. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5086-5098.	2.6	7
14	^1H -SERF Editing in Two-Dimensional Pure-Shift Total Correlation Spectroscopy: Scalar Coupling Measurements for a Group of Spins in Organic Molecules. <i>ChemPhysChem</i> , 2019, 20, 1559-1566.	2.1	2
15	Backbone and side-chain resonance assignments of centromeric protein Scm3 from <i>Saccharomyces cerevisiae</i> . <i>Biomolecular NMR Assignments</i> , 2019, 13, 267-273.	0.8	0
16	Fast and simultaneous determination of ^1H - ^1H and ^1H - ^{19}F scalar couplings in complex spin systems: Application of PSYCHE homonuclear broadband decoupling. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 1043-1046.	1.9	7
17	Aqueous extract of Triphala inhibits cancer cell proliferation through perturbation of microtubule assembly dynamics. <i>Biomedicine and Pharmacotherapy</i> , 2018, 98, 76-81.	5.6	17
18	Multiple homonuclear band-selective decoupling ^1H -NMR: Fast and unambiguous determination of diastereomeric excess. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 1037-1042.	1.9	5

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19	Real-time J-upscaling in two-dimensional pure shift diagonal NMR: Simultaneous resolution enhancement in chemical shifts and scalar couplings. <i>Journal of Magnetic Resonance</i> , 2018, 296, 176-180.	2.1	1
20	NMR supersequences with real-time homonuclear broadband decoupling: Sequential acquisition of protein and small molecule spectra in a single experiment. <i>Journal of Magnetic Resonance</i> , 2018, 297, 108-112.	2.1	6
21	An efficient combination of BEST and NUS methods in multidimensional NMR spectroscopy for high throughput analysis of proteins. <i>RSC Advances</i> , 2018, 8, 17616-17621.	3.6	10
22	Rapid elucidation of chemical shift correlations in complex NMR spectra of organic molecules: Two-dimensional Hadamard pure shift NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2018, 293, 77-81.	2.1	6
23	Unfolding of CPR3 Gets Initiated at the Active Site and Proceeds via Two Intermediates. <i>Biophysical Journal</i> , 2017, 112, 605-619.	0.5	6
24	Ultra-high resolution in low field tabletop NMR spectrometers. <i>RSC Advances</i> , 2017, 7, 49102-49104.	3.6	8
25	Hadamard Homonuclear Broadband Decoupled TOCSY NMR: Improved Efficacy in Detecting Long-range Chemical Shift Correlations. <i>ChemPhysChem</i> , 2016, 17, 4037-4042.	2.1	11
26	Non-uniform Sampling Ultrahigh Resolution TOCSY NMR: Analysis of Complex Mixtures at Microgram Levels. <i>ChemPhysChem</i> , 2016, 17, 2304-2308.	2.1	26
27	NMR assignments of mitochondrial cyclophilin Cpr3 from <i>Saccharomyces cerevisiae</i> . <i>Biomolecular NMR Assignments</i> , 2016, 10, 203-206.	0.8	1
28	Synergistic Inhibition of Protein Fibrillation by Proline and Sorbitol: Biophysical Investigations. <i>PLoS ONE</i> , 2016, 11, e0166487.	2.5	21
29	Inhibition of insulin fibrillation by osmolytes: Mechanistic Insights. <i>Scientific Reports</i> , 2015, 5, 17599.	3.3	79
30	Molten globule nature of Plasmodium falciparum P2 homo-tetramer. <i>Biochemistry and Biophysics Reports</i> , 2015, 1, 97-107.	1.3	4
31	Ribosomal Protein P2 from apicomplexan parasite <i>Toxoplasma gondii</i> is intrinsically a molten globule. <i>Biophysical Chemistry</i> , 2015, 200-201, 27-33.	2.8	4
32	Reduced dimensionality (3,2)D NMR experiments and their automated analysis: implications to high-throughput structural studies on proteins. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 79-87.	1.9	0
33	The C-terminal Domain of Eukaryotic Acidic Ribosomal P2 Proteins is Intrinsically Disordered with Conserved Structural Propensities. <i>Protein and Peptide Letters</i> , 2015, 22, 212-218.	0.9	4
34	Urea Dependent ¹⁵ N NMR-Relaxation Studies on PfP2 Multimers Reveal that the C-Terminal Behaves like an Independent Intrinsically Disordered Peptide. <i>Protein and Peptide Letters</i> , 2015, 22, 425-431.	0.9	1
35	Residue level description of In vivo self-association of Plasmodium falciparum P2. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 602-612.	3.5	6
36	Complete backbone and DENQ side chain NMR assignments in proteins from a single experiment: implications to structure-function studies. <i>Journal of Structural and Functional Genomics</i> , 2014, 15, 25-32.	1.2	5

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37	A reduced dimensionality NMR pulse sequence and an efficient protocol for unambiguous assignment in intrinsically disordered proteins. <i>Journal of Biomolecular NMR</i> , 2014, 59, 199-210.	2.8	17
38	Curcumin and kaempferol prevent lysozyme fibril formation by modulating aggregation kinetic parameters. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 670-680.	2.3	74
39	Parallel acquisition of 3D-HA(CA)NH and 3D-HACACO spectra. <i>Journal of Biomolecular NMR</i> , 2013, 56, 77-84.	2.8	17
40	Single point mutation induced alterations in the equilibrium structural transitions on the folding landscape of HIV-1 protease. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013, 31, 684-693.	3.5	1
41	Intrinsic vs Environment Driven Equilibrium Folding Transitions in GTPase Effector Domain of Dynamin: NMR Insights. <i>Protein and Peptide Letters</i> , 2012, 19, 1297-1301.	0.9	0
42	A unified NMR strategy for high-throughput determination of backbone fold of small proteins. <i>Journal of Structural and Functional Genomics</i> , 2012, 13, 201-212.	1.2	3
43	Denaturation of HIV-1 Protease (PR) Monomer by Acetic Acid: Mechanistic and Trajectory Insights from Molecular Dynamics Simulations and NMR. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012, 29, 893-903.	3.5	4
44	Reduced Dimensionality (4,3)D- ¹ HN(C)NH for Rapid Assignment of ¹ H ¹⁵ N HSQC Peaks in Proteins: An Analytical Tool for Protein Folding, Proteomics, and Drug Discovery Programs. <i>Analytical Chemistry</i> , 2012, 84, 10404-10410.	6.5	6
45	Residual structure and dynamics in DMSO-d ₆ denatured Dynein Light Chain protein. <i>Biochimie</i> , 2012, 94, 231-241.	2.6	6
46	NMR Insights into Folding and Self-Association of Plasmodium falciparum P2. <i>PLoS ONE</i> , 2012, 7, e36279.	2.5	13
47	Facile backbone (¹ H, ¹⁵ N, ¹³ Ca, and ¹³ C) assignment of ¹³ C/ ¹⁵ N labeled proteins using orthogonal projection planes of HNN and HN(C)N experiments and its automation. <i>Magnetic Resonance in Chemistry</i> , 2012, 50, 357-363.	1.9	4
48	Reduced dimensionality 3D HNCAN for unambiguous HN, CA and N assignment in proteins. <i>Journal of Magnetic Resonance</i> , 2012, 216, 161-168.	2.1	4
49	Simultaneous acquisition of ¹³ C- ¹⁵ N and ¹ H- ¹⁵ N sequential correlations in proteins: application of dual receivers in 3D HNN. <i>Journal of Biomolecular NMR</i> , 2012, 52, 5-10.	2.8	26
50	NMR Derived Model of GTPase Effector Domain (GED) Self Association: Relevance to Dynamin Assembly. <i>PLoS ONE</i> , 2012, 7, e30109.	2.5	1
51	NMR Insights into the Core of GED Assembly by H/D Exchange Coupled with DMSO Dissociation and Analysis of the Denatured State. <i>Journal of Molecular Biology</i> , 2011, 405, 1202-1214.	4.2	11
52	AUTOBA: Automation of backbone assignment from HN(C)N suite of experiments. <i>Journal of Biomolecular NMR</i> , 2011, 50, 285-297.	2.8	8
53	Resonance assignments of GTPase effector domain of dynamin in the aprotic solvent deuterated dimethyl sulfoxide. <i>Biomolecular NMR Assignments</i> , 2011, 5, 59-61.	0.8	2
54	hNCOcanH pulse sequence and a robust protocol for rapid and unambiguous assignment of backbone (¹ H ¹⁵ N, ¹⁵ N and ¹³ C) resonances in ¹⁵ N/ ¹³ C labeled proteins. <i>Magnetic Resonance in Chemistry</i> , 2011, 49, 575-583.	1.9	7

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55	Visualization of Early Events in Acetic Acid Denaturation of HIV-1 Protease: A Molecular Dynamics Study. PLoS ONE, 2011, 6, e19830.	2.5	9
56	BEST-HNN and 2D-(HN)NH experiments for rapid backbone assignment in proteins. Journal of Magnetic Resonance, 2010, 204, 111-117.	2.1	17
57	hnCOcaNH and hncoCANH pulse sequences for rapid and unambiguous backbone assignment in (¹³ C, ¹⁵ N) labeled proteins. Journal of Magnetic Resonance, 2010, 206, 134-138.	2.1	9
58	Hierarchy of local structural and dynamics perturbations due to subdenaturing urea in the native state ensemble of DLC8 dimer. Biophysical Chemistry, 2010, 153, 17-26.	2.8	8
59	NMR investigations on residue level unfolding thermodynamics in DLC8 dimer by temperature dependent native state hydrogen exchange. Journal of Biomolecular NMR, 2009, 44, 1-11.	2.8	10
60	Structure-function-folding relationships and native energy landscape of dynein light chain protein: nuclear magnetic resonance insights. Journal of Biosciences, 2009, 34, 465-479.	1.1	20
61	Generation of serine/threonine check points in HN(C)N spectra. Journal of Chemical Sciences, 2009, 121, 955-964.	1.5	10
62	¹ H, ¹⁵ N, ¹³ C resonance assignment of 9.7 Å urea-denatured state of the GTPase effector domain (GED) of dynamin. Biomolecular NMR Assignments, 2009, 3, 13-16.	0.8	3
63	Residue-wise conformational stability of DLC8 dimer from native state hydrogen exchange. Proteins: Structure, Function and Bioinformatics, 2009, 75, 40-52.	2.6	10
64	Conserved structural and dynamics features in the denatured states of drosophila SUMO, human SUMO and ubiquitin proteins: Implications to sequence-folding paradigm. Proteins: Structure, Function and Bioinformatics, 2009, 76, 387-402.	2.6	8
65	NMR-derived solution structure of SUMO from <i>Drosophila melanogaster</i> (dSmt3). Proteins: Structure, Function and Bioinformatics, 2009, 75, 1046-1050.	2.6	4
66	Hierarchy in guanidine unfolding of DLC8 dimer: Regulatory functional implications. Biochimie, 2009, 91, 401-407.	2.6	6
67	Comparison of NMR structural and dynamics features of the urea and guanidine-denatured states of GED. Archives of Biochemistry and Biophysics, 2009, 481, 169-176.	3.0	6
68	Fluctuating partially native-like topologies in the acid denatured ensemble of autolysis resistant HIV-1 protease. Archives of Biochemistry and Biophysics, 2009, 482, 33-41.	3.0	7
69	Native and nonnative conformational preferences in the urea-unfolded state of barstar. Protein Science, 2009, 13, 3085-3091.	7.6	28
70	Tuning the HNN experiment: generation of serine-threonine check points. Journal of Biomolecular NMR, 2008, 40, 145-152.	2.8	17
71	¹ H, ¹⁵ N, ¹³ C resonance assignment of folded and 8 Å urea-denatured state of SUMO from <i>Drosophila melanogaster</i> . Biomolecular NMR Assignments, 2008, 2, 13-15.	0.8	9
72	Spectroscopic labeling of A, S/T in the ¹ H- ¹⁵ N HSQC spectrum of uniformly (¹⁵ N- ¹³ C) labeled proteins. Journal of Magnetic Resonance, 2008, 194, 289-294.	2.1	6

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73	pH dependent unfolding characteristics of DLC8 dimer: Residue level details from NMR. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1795-1803.	2.3	9
74	NMR comparison of the native energy landscapes of DLC8 dimer and monomer. <i>Biophysical Chemistry</i> , 2008, 134, 10-19.	2.8	19
75	Effect of a single point mutation on the stability, residual structure and dynamics in the denatured state of GED: Relevance to self-assembly. <i>Biophysical Chemistry</i> , 2008, 137, 13-18.	2.8	2
76	Equilibrium Refolding Transitions Driven by Trifluoroethanol and by Guanidine Hydrochloride Dilution Are Similar in GTPase Effector Domain: Implications to SequenceâSelf-Association Paradigm. <i>Biochemistry</i> , 2008, 47, 12945-12953.	2.5	2
77	NMR insights into a megadaltonâsize protein selfâassembly. <i>Protein Science</i> , 2008, 17, 1319-1325.	7.6	15
78	NMR Characterization of Structural and Dynamics Perturbations Due to a Single Point Mutation in Drosophila DLC8 Dimer: Functional Implications. <i>Biochemistry</i> , 2008, 47, 6251-6259.	2.5	12
79	NMR insights into dynamics regulated target binding of DLC8 dimer. <i>Biochemical and Biophysical Research Communications</i> , 2007, 355, 950-955.	2.1	12
80	Equilibrium unfolding of DLC8 monomer by urea and guanidine hydrochloride: Distinctive global and residue level features. <i>Biochimie</i> , 2007, 89, 117-134.	2.6	25
81	NMR Characterization of the Energy Landscape of SUMO-1 in the Native-state Ensemble. <i>Journal of Molecular Biology</i> , 2007, 367, 1480-1493.	4.2	21
82	Pockets of Short-Range Transient Order and Restricted Topological Heterogeneity in the Guanidine-Denatured State Ensemble of GED of Dynamin. <i>Biochemistry</i> , 2007, 46, 11819-11832.	2.5	20
83	Local Structural Preferences and Dynamics Restrictions in the Urea-Denatured State of SUMO-1: NMR Characterization. <i>Biophysical Journal</i> , 2006, 90, 2498-2509.	0.5	15
84	pH driven conformational dynamics and dimer-to-monomer transition in DLC8. <i>Protein Science</i> , 2006, 15, 335-342.	7.6	36
85	Residue-level NMR View of the Urea-driven Equilibrium Folding Transition of SUMO-1 (1-97): Native Preferences Do Not Increase Monotonously. <i>Journal of Molecular Biology</i> , 2006, 361, 180-194.	4.2	13
86	Structural characterization of the large soluble oligomers of the GTPase effector domain of dynamin. <i>FEBS Journal</i> , 2006, 273, 388-397.	4.7	22
87	Following autolysis in proteases by NMR: Insights into multiple unfolding pathways and mutational plasticities. <i>Biophysical Chemistry</i> , 2006, 123, 1-10.	2.8	6
88	Alanine check points in HNN and HN(C)N spectra. <i>Journal of Magnetic Resonance</i> , 2006, 181, 21-28.	2.1	18
89	NMR of unfolded proteins. <i>Journal of Chemical Sciences</i> , 2005, 117, 3-21.	1.5	15
90	Folding Regulates Autoprocessing of HIV-1 Protease Precursor. <i>Journal of Biological Chemistry</i> , 2005, 280, 11369-11378.	3.4	36

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91	Dynamin Interacts with Members of the Sumoylation Machinery. <i>Journal of Biological Chemistry</i> , 2004, 279, 31445-31454.	3.4	40
92	Application of HN(C)N to rapid estimation of $1J(N\hat{C})$ coupling constants correlated to τ torsion angles in proteins: implication to structural genomics. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 678-684.	2.1	5
93	NMR Elucidation of Early Folding Hierarchy in HIV-1 Protease. <i>Journal of Biological Chemistry</i> , 2003, 278, 19980-19985.	3.4	31
94	NMR Identification and Characterization of the Flexible Regions in the 160 kDa Molten Globule-Like Aggregate of Barstar at Low pH. <i>Biochemistry</i> , 2002, 41, 9885-9899.	2.5	29
95	A novel protocol based on HN(C)N for rapid resonance assignment in (^{15}N , ^{13}C) labeled proteins: implications to structural genomics. <i>Biochemical and Biophysical Research Communications</i> , 2002, 293, 427-432.	2.1	32
96	NMR identification of local structural preferences in HIV-1 protease tethered heterodimer in 6 M guanidine hydrochloride. <i>FEBS Letters</i> , 2001, 509, 218-224.	2.8	27
97	Improved 3D triple resonance experiments, HNN and HN(C)N, for HN and ^{15}N sequential correlations in (^{13}C , ^{15}N) labeled proteins: application to unfolded proteins. <i>Journal of Biomolecular NMR</i> , 2001, 20, 135-147.	2.8	179
98	CD and NMR investigations on trifluoroethanol-induced step-wise folding of helical segment from scorpion neurotoxin. <i>FEBS Journal</i> , 1999, 264, 468-478.	0.2	22
99	Molecular conformation of gonadoliberin using two-dimensional NMR spectroscopy. <i>FEBS Journal</i> , 1986, 158, 323-332.	0.2	34
100	Conformation of Biological Molecules. <i>Nmr</i> , 1982, , .	0.5	60
101	Carbon-13T1 measurements on glyceryl trivalerate. <i>Magnetic Resonance in Chemistry</i> , 1981, 17, 71-73.	0.7	4
102	Protein-Nucleic acid interactions: Investigations on the peptide backbone interaction with polynucleotides. <i>International Journal of Quantum Chemistry</i> , 1981, 20, 23-32.	2.0	7
103	Sequence effects in structures of the dinucleotides d-pApT AND d-pTpA. <i>Journal of Molecular Structure</i> , 1981, 72, 261-267.	3.6	11
104	Theoretical description of fluidity in biological membranes: Rotational motion in lipid hydrocarbon chains. <i>International Journal of Quantum Chemistry</i> , 1980, 17, 983-993.	2.0	1
105	Organization of phospholipids in biological membranes. <i>International Journal of Quantum Chemistry</i> , 1979, 16, 19-29.	2.0	8
106	Quantum-mechanical theory for transport across biological membranes. <i>International Journal of Quantum Chemistry</i> , 1978, 13, 411-428.	2.0	7
107	Conformational structure of glycerol trivalerate and its relation to phospholipids: Studies by NMR and potential energy calculations. <i>Chemistry and Physics of Lipids</i> , 1978, 21, 77-96.	3.2	17