Viswanathan V Krishnan

List of Publications by Year
in descending order

54	1,390	471509 17	361022 35
papers	citations	h-index	g-index

55	55	55	2017
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Bimodal Distribution of Two Distinct Categories of Intrinsically Disordered Structures with Separate Functions in FG Nucleoporins. Molecular and Cellular Proteomics, 2010, 9, 2205-2224.	3.8	289
2	Gender Differences in Bile Acids and Microbiota in Relationship with Gender Dissimilarity in Steatosis Induced by Diet and FXR Inactivation. Scientific Reports, 2017, 7, 1748.	3.3	103
3	Characterization of protein secondary structure from NMR chemical shifts. Progress in Nuclear Magnetic Resonance Spectroscopy, 2009, 54, 141-165.	7.5	95
4	Radiation damping in modern NMR experiments: Progress and challenges. Progress in Nuclear Magnetic Resonance Spectroscopy, 2013, 68, 41-57.	7.5	91
5	Western Dietâ€“Induced Dysbiosis in Farnesoid X Receptor Knockout Mice Causes Persistent Hepatic Inflammation after Antibiotic Treatment. American Journal of Pathology, 2017, 187, 1800-1813.	3.8	90
6	Determination of Oligomeric State of Proteins in Solution from Pulsed-Field-Gradient Self-Diffusion Coefficient Measurements. A Comparison of Experimental, Theoretical, and Hard-Sphere Approximated Values. Journal of Magnetic Resonance, 1997, 124, 468-473.	2.1	72
7	Intramolecular Cohesion of Coils Mediated by Phenylalanineâ€“Glycine Motifs in the Natively Unfolded Domain of a Nucleoporin. PLoS Computational Biology, 2008, 4, e1000145.	3.2	48
8	Dynamics of Cellular Retinoic Acid Binding Protein I on Multiple Time Scales with Implications for Ligand Bindingâ€. Biochemistry, 2000, 39, 9119-9129.	2.5	45
9	An empirical relationship between rotational correlation time and solvent accessible surface area. , 1998, 12, 177-182.		44
10	Solution Structure and Backbone Dynamics of the Human DNA Ligase IIIÎ± BRCT Domainâ€‚â€¡. Biochemistry, 2001, 40, 13158-13166.	2.5	41
11	Plasma Antibody Profiles as Diagnostic Biomarkers for Tuberculosis. Vaccine Journal, 2011, 18, 2148-2153.	3.1	32
12	An Empirical Correlation between Secondary Structure Content and Averaged Chemical Shifts in Proteins. Biophysical Journal, 2003, 84, 1223-1227.	0.5	30
13	Protein structural class identification directly from NMR spectra using averaged chemical shifts. Bioinformatics, 2003, 19, 2054-2064.	4.1	30
14	An evaluation of chemical shift index-based secondary structure determination in proteins: Influence of random coil chemical shifts*. Journal of Biomolecular NMR, 2004, 30, 143-153.	2.8	30
15	Real-Time Enzyme Kinetics by Quantitative NMR Spectroscopy and Determination of the Michaelisâ€“Menten Constant Using the Lambert-W Function. Journal of Chemical Education, 2015, 92, 1943-1948.	2.3	28
16	Chemistry and Chemical Equilibrium Dynamics of BMAA and Its Carbamate Adducts. Neurotoxicity Research, 2018, 33, 76-86.	2.7	24
17	Multiplexed measurements of immunomodulator levels in peripheral blood of healthy subjects: Effects of analytical variables based on anticoagulants, age, and gender. , 2014, 86, 426-435.		22
18	An improved experimental scheme to measure self-diffusion coefficients of biomolecules with an advantageous use of radiation damping. Chemical Physics Letters, 1999, 302, 317-323.	2.6	19

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19	Exploratory Study on Plasma Immunomodulator and Antibody Profiles in Tuberculosis Patients. Vaccine Journal, 2013, 20, 1283-1290.	3.1	19
20	Molecular Thermodynamics Using Nuclear Magnetic Resonance (NMR) Spectroscopy. Inventions, 2019, 4, 13.	2.5	17
21	Upregulation of cystathione Î²â€synthase and p70S6K/S6 in neonatal hypoxic ischemic brain injury. Brain Pathology, 2017, 27, 449-458.	4.1	16
22	Multiplexed measurements of immunomodulator levels in peripheral blood of healthy subjects: Effects of analytical variables based on anticoagulants, age and gender. , 2013, , n/a-n/a.		15
23	A primer for nuclear magnetic relaxation in liquids. Concepts in Magnetic Resonance, 2003, 17A, 86-116.	1.3	13
24	Translational dynamics of antifreeze glycoprotein in supercooled water. Biophysical Chemistry, 2004, 110, 223-230.	2.8	12
25	Kinetics and thermodynamics of oxidation mediated reaction in l-cysteine and its methyl and ethyl esters in dimethyl sulfoxide-d6 by NMR spectroscopy. Journal of Molecular Structure, 2017, 1131, 196-200.	3.6	12
26	Restricted amide rotation with steric hindrance induced multiple conformations. Chemical Physics Letters, 2017, 689, 148-151.	2.6	12
27	Proteomic profiles by multiplex microsphere suspension array. Journal of Immunological Methods, 2018, 461, 1-14.	1.4	12
28	Modulations in restricted amide rotation by steric induced conformational trapping. Chemical Physics Letters, 2012, 523, 124-127.	2.6	11
29	Equilibrium Dynamics of Î²-N-Methylamino-L-Alanine (BMAA) and Its Carbamate Adducts at Physiological Conditions. PLoS ONE, 2016, 11, e0160491.	2.5	11
30	Radiation damping in microcoil NMR probes. Journal of Magnetic Resonance, 2006, 179, 294-298.	2.1	10
31	Data Mining Strategies to Improve Multiplex Microbead Immunoassay Tolerance in a Mouse Model of Infectious Diseases. PLoS ONE, 2015, 10, e0116262.	2.5	10
32	Application of data mining tools for classification of protein structural class from residue based averaged NMR chemical shifts. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1545-1552.	2.3	9
33	The Ensemble of Conformations of Antifreeze Glycoproteins (AFGP8): A Study Using Nuclear Magnetic Resonance Spectroscopy. Biomolecules, 2019, 9, 235.	4.0	9
34	Ketoâ€“Enol Tautomerization of Acetylacetone in Mixed Solvents by NMR Spectroscopy. A Physical Chemistry Experiment on the Application of the Onsager-Kirkwood Model for Solvation Thermodynamics. Journal of Chemical Education, 2020, 97, 825-830.	2.3	6
35	On the Differential Roles of Mg2+, Zn2+, and Cu2+ in the Equilibrium of Î²-N-Methyl-Amino-L-Alanine (BMAA) and its Carbamates. Neurotoxicity Research, 2021, 39, 6-16.	2.7	6
36	NMR based solvent exchange experiments to understand the conformational preference of intrinsically disordered proteins using FGâ€nucleoporin peptide as a model. Biopolymers, 2014, 102, 69-77.	2.4	5

#	Article	IF	Citations
37	Validation of Enthalpyâ€“Entropy Compensation Mechanism in Partial Amide Bond Rotation. ACS Omega, 2020, 5, 9348-9355.	3.5	5
38	Estimation of protein secondary structure content directly from NMR spectra using an improved empirical correlation with averaged chemical shift. Journal of Structural and Functional Genomics, 2006, 6, 281-285.	1.2	4
39	Identification of ligand binding sites in intrinsically disordered proteins with a differential binding score. Scientific Reports, 2021, 11, 22583.	3.3	4
40	Temperature dependence of protein-hydration hydrodynamics by molecular dynamics simulations. Biophysical Chemistry, 2007, 130, 55-64.	2.8	3
41	Enzymatic conversion of sucrose to glucose and its anomerization by quantitative NMR spectroscopy: Application of a simple consecutive reaction rates approach. Journal of Molecular Structure, 2018, 1153, 187-191.	3.6	3
42	Effect of sucralose on the enzyme kinetics of invertase using real-time NMR spectroscopy and progress curve analysis. Carbohydrate Research, 2018, 455, 5-9.	2.3	3
43	Role of glycosylation on the ensemble of conformations in the MUC1 immunodominant epitope. Journal of Peptide Science, 2020, 26, e3229.	1.4	3
44	Conformational Ensembles by NMR and MD Simulations in Model Heptapeptides with Select Tri-Peptide Motifs. International Journal of Molecular Sciences, 2021, 22, 1364.	4.1	3
45	NMR based real-time enzyme kinetics on estimating the inhibitory effect of sucralose in the enzymatic conversion of sucrose. Biophysical Chemistry, 2021, 268, 106495.	2.8	2
46	NMR spectroscopy analysis reveals differential metabolic responses in arabidopsis roots and leaves treated with a cytokinesis inhibitor. PLoS ONE, 2020, 15, e0241627.	2.5	2
47	Metabolomics Study at the Postharvest Conditions of Cold Storage and Fungicide (Imazalil Sulfate) Treatment in Navel Oranges and Clementine Mandarins. ACS Agricultural Science and Technology, 2022, 2, 79-89.	2.3	2
48	Role of solvent dielectric constant on the enthalpy-entropy compensation in the hindered amide bond rotation. Chemical Physics Letters, 2022, 792, 139412.	2.6	2
49	Novel relaxation compensated method to measure proton exchange rates in biomolecules based on decorrelation of heteronuclear two-spin order. Magnetic Resonance in Chemistry, 2000, 38, 789-794.	1.9	1
50	Unexpected change in NOE with increasing temperature: Crosstalk between chemical exchange and cross relaxation in a NiN2S2 complex. Chemical Physics Letters, 2019, 715, 160-165.	2.6	1
51	Ensemble characterization of an intrinsically disordered FGâ€Nup peptide and its F>A mutant in DMSOâ€d‹sub›6‹/sub›. Biopolymers, 2017, 108, e23036.	2.4	1
52	Mapping the amino acid properties of constituent nucleoporins onto the yeast nuclear pore complex. Bioinformation, 2014, 10, 94-97.	0.5	0
53	Metabolomic Analysis of HER2â€positive Breast Cancer Cells. FASEB Journal, 2018, 32, 658.10.	0.5	0
54	Evaluation of thrombotic thrombocytopenic purpura and other thrombotic microangiopathies: Lessons learned from a 14â€year retrospective study. Therapeutic Apheresis and Dialysis, 2022, , .	0.9	0