

Geerten W Vuister

List of Publications by Year in descending order

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92
papers

6,257
citations

66234

42
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69108

77
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96
all docs

96
docs citations

96
times ranked

6213
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative J correlation: a new approach for measuring homonuclear three-bond J(HNH.alpha.) coupling constants in 15N-enriched proteins. <i>Journal of the American Chemical Society</i> , 1993, 115, 7772-7777.	6.6	1,074
2	[2] Measurement of homo- and heteronuclear J couplings from quantitative J correlation. <i>Methods in Enzymology</i> , 1994, 239, 79-105.	0.4	373
3	CcpNmr AnalysisAssign: a flexible platform for integrated NMR analysis. <i>Journal of Biomolecular NMR</i> , 2016, 66, 111-124.	1.6	231
4	Ca ²⁺ Regulation in the Na ⁺ /Ca ²⁺ Exchanger Involves Two Markedly Different Ca ²⁺ Sensors. <i>Molecular Cell</i> , 2006, 22, 15-25.	4.5	184
5	WeNMR: Structural Biology on the Grid. <i>Journal of Grid Computing</i> , 2012, 10, 743-767.	2.5	170
6	Measurement of three-bond nitrogen-carbon J couplings in proteins uniformly enriched in nitrogen-15 and carbon-13. <i>Journal of the American Chemical Society</i> , 1993, 115, 5334-5335.	6.6	167
7	Structural and dynamic changes of photoactive yellow protein during its photocycle in solution. <i>Nature Structural Biology</i> , 1998, 5, 568-570.	9.7	155
8	Recommendations of the wwPDB NMR Validation Task Force. <i>Structure</i> , 2013, 21, 1563-1570.	1.6	151
9	Solution Structure and Backbone Dynamics of the Photoactive Yellow Protein. <i>Biochemistry</i> , 1998, 37, 12689-12699.	1.2	129
10	Gradient-enhanced HMQC and HSQC spectroscopy. Applications to 15N-labeled Mnt repressor. <i>Journal of the American Chemical Society</i> , 1991, 113, 9688-9690.	6.6	128
11	2D and 3D NMR Study of Phenylalanine Residues in Proteins by Reverse Isotopic Labeling. <i>Journal of the American Chemical Society</i> , 1994, 116, 9206-9210.	6.6	126
12	The solution structure and DNA-binding properties of the cold-shock domain of the human Y-box protein YB-1. <i>Journal of Molecular Biology</i> , 2002, 316, 317-326.	2.0	121
13	Resolution enhancement and spectral editing of uniformly 13C-enriched proteins by homonuclear broadband 13C decoupling. <i>Journal of Magnetic Resonance</i> , 1992, 98, 428-435.	0.5	117
14	Solution structure of the DNA-binding domain of Drosophila heat shock transcription factor. <i>Nature Structural and Molecular Biology</i> , 1994, 1, 605-614.	3.6	115
15	CING: an integrated residue-based structure validation program suite. <i>Journal of Biomolecular NMR</i> , 2012, 54, 267-283.	1.6	106
16	A Cell-penetrating Peptide Derived from Human Lactoferrin with Conformation-dependent Uptake Efficiency. <i>Journal of Biological Chemistry</i> , 2009, 284, 36099-36108.	1.6	105
17	Demonstration of Long-Range Interactions in a PDZ Domain by NMR, Kinetics, and Protein Engineering. <i>Structure</i> , 2006, 14, 1801-1809.	1.6	103
18	ATP-induced conformational changes of the nucleotide-binding domain of Na,K-ATPase. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 468-474.	3.6	97

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19	Quantitative Measurement of Relaxation Interference Effects between ^1H NCSA and ^1H - ^{15}N Dipolar Interaction: A Correlation with Secondary Structure. <i>Journal of the American Chemical Society</i> , 1997, 119, 8985-8990.	6.6	94
20	DRESS: a database of Refined solution NMR structures. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 55, 483-486.	1.5	91
21	Improving the quality of protein structures derived by NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2002, 22, 281-289.	1.6	88
22	Binding of the AVR4 Elicitor of <i>Cladosporium fulvum</i> to Chitotriose Units Is Facilitated by Positive Allosteric Protein-Protein Interactions. <i>Journal of Biological Chemistry</i> , 2004, 279, 16786-16796.	1.6	83
23	Quantitative Evaluation of Experimental NMR Restraints. <i>Journal of the American Chemical Society</i> , 2003, 125, 12026-12034.	6.6	81
24	CASD-NMR: critical assessment of automated structure determination by NMR. <i>Nature Methods</i> , 2009, 6, 625-626.	9.0	80
25	Molecular Mechanisms of Calmodulin Action on TRPV5 and Modulation by Parathyroid Hormone. <i>Molecular and Cellular Biology</i> , 2011, 31, 2845-2853.	1.1	78
26	Traditional Biomolecular Structure Determination by NMR Spectroscopy Allows for Major Errors. <i>PLoS Computational Biology</i> , 2006, 2, e9.	1.5	76
27	Blind Testing of Routine, Fully Automated Determination of Protein Structures from NMR Data. <i>Structure</i> , 2012, 20, 227-236.	1.6	75
28	The precision of NMR structure ensembles revisited. <i>Journal of Biomolecular NMR</i> , 2003, 25, 225-234.	1.6	74
29	Ca^{2+} regulation in the $\text{Na}^{+}/\text{Ca}^{2+}$ exchanger features a dual electrostatic switch mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14333-14338.	3.3	73
30	Structure, dynamics and binding characteristics of the second PDZ domain of PTP-BL. <i>Journal of Molecular Biology</i> , 2002, 316, 1101-1110.	2.0	72
31	Structural diversity in twin-arginine signal peptide-binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15641-15646.	3.3	71
32	Validation of protein structures derived by NMR spectroscopy. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2004, 45, 315-337.	3.9	70
33	A PDZ domain recapitulates a unifying mechanism for protein folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 128-133.	3.3	69
34	An empirical correlation between $^1\text{J}_{\text{C}\alpha\text{H}\alpha}$ and protein backbone conformation. <i>Journal of the American Chemical Society</i> , 1992, 114, 9674-9675.	6.6	68
35	Structure calculation, refinement and validation using <i>CcpNmr Analysis</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 154-161.	2.5	67
36	The use of $^1\text{J}_{\text{C}^{\text{H}}}$ coupling constants as a probe for protein backbone conformation. <i>Journal of Biomolecular NMR</i> , 1993, 3, 67-80.	1.6	65

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37	An Allosteric Intramolecular PDZ α -PDZ Interaction Modulates PTP-BL PDZ2 Binding Specificity. <i>Biochemistry</i> , 2007, 46, 13629-13637.	1.2	56
38	The Mad1-Sin3B interaction involves a novel helical fold. <i>Nature Structural Biology</i> , 2000, 7, 1100-1104.	9.7	52
39	Measurement of two-bond JCOH \pm coupling constants in proteins uniformly enriched with ^{13}C . <i>Journal of Biomolecular NMR</i> , 1992, 2, 401-405.	1.6	50
40	Kinetic folding mechanism of PDZ2 from PTP-BL. <i>Protein Engineering, Design and Selection</i> , 2005, 18, 389-395.	1.0	50
41	Resonance assignment of methionine methyl groups and ^3J angular information from long-range proton-carbon and carbon-carbon J correlation in a calmodulin-peptide complex. <i>Journal of Biomolecular NMR</i> , 1994, 4, 787-797.	1.6	49
42	Structural analysis of calmodulin binding to ion channels demonstrates the role of its plasticity in regulation. <i>Pflügers Archiv European Journal of Physiology</i> , 2013, 465, 1507-1519.	1.3	42
43	NMR Exchange Format: a unified and open standard for representation of NMR restraint data. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 433-434.	3.6	40
44	Measurement of (^{15}N) - (^1H) coupling constants in uniformly (^{15}N) -labeled proteins: Application to the photoactive yellow protein. <i>Journal of Biomolecular NMR</i> , 1997, 10, 301-306.	1.6	38
45	Homonuclear three-dimensional proton NMR spectroscopy of pike parvalbumin. Comparison of short- and medium-range NOEs from 2D and 3D NMR. <i>Journal of the American Chemical Society</i> , 1990, 112, 5024-5030.	6.6	36
46	NRG-CING: integrated validation reports of remediated experimental biomolecular NMR data and coordinates in wwPDB. <i>Nucleic Acids Research</i> , 2012, 40, D519-D524.	6.5	34
47	An overview of tools for the validation of protein NMR structures. <i>Journal of Biomolecular NMR</i> , 2014, 58, 259-285.	1.6	34
48	Extension of the Binding Motif of the Sin3 Interacting Domain of the Mad Family Proteins. <i>Biochemistry</i> , 2004, 43, 46-54.	1.2	32
49	A novel experiment for the quantitative measurement of CSA($^1\text{H}(\text{N})$)/CSA(^{15}N) cross-correlated relaxation in ^{15}N -labeled proteins. <i>Journal of Biomolecular NMR</i> , 2000, 16, 171-174.	1.6	30
50	Structure and Dynamics of Ca^{2+} -Binding Domain 1 of the $\text{Na}^+/\text{Ca}^{2+}$ Exchanger in the Presence and in the Absence of Ca^{2+} . <i>Journal of Molecular Biology</i> , 2008, 377, 945-955.	2.0	30
51	The TRPV5/6 calcium channels contain multiple calmodulin binding sites with differential binding properties. <i>Journal of Structural and Functional Genomics</i> , 2012, 13, 91-100.	1.2	30
52	A Closed Binding Pocket and Global Destabilization Modify the Binding Properties of an Alternatively Spliced Form of the Second PDZ Domain of PTP-BL. <i>Structure</i> , 2004, 12, 11-20.	1.6	29
53	Gradient-enhanced 3D NOESY-HMQC spectroscopy. <i>Journal of Biomolecular NMR</i> , 1992, 2, 301-305.	1.6	27
54	The second round of Critical Assessment of Automated Structure Determination of Proteins by NMR: CASD-NMR-2013. <i>Journal of Biomolecular NMR</i> , 2015, 62, 413-424.	1.6	27

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55	A Novel Mechanism for Calmodulin-Dependent Inactivation of Transient Receptor Potential Vanilloid 6. <i>Biochemistry</i> , 2018, 57, 2611-2622.	1.2	27
56	Sin3A recruits Tet1 to the PAH1 domain via a highly conserved Sin3-Interaction Domain. <i>Scientific Reports</i> , 2018, 8, 14689.	1.6	27
57	The NMR restraints grid at BMRB for 5,266 protein and nucleic acid PDB entries. <i>Journal of Biomolecular NMR</i> , 2009, 45, 389-396.	1.6	26
58	Accurate Prediction of the Dynamical Changes within the Second PDZ Domain of PTP1e. <i>PLoS Computational Biology</i> , 2012, 8, e1002794.	1.5	25
59	Structural Basis for Ca ²⁺ Regulation in the Na ⁺ /Ca ²⁺ Exchanger. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 7-15.	1.8	19
60	Simple high-resolution NMR spectroscopy as a tool in molecular biology. <i>FEBS Journal</i> , 2019, 286, 2035-2042.	2.2	19
61	NMR Experiments for the Study of Photointermediates: Application to the Photoactive Yellow Protein. <i>Journal of Magnetic Resonance</i> , 1999, 137, 443-447.	1.2	18
62	Cold Shock Domain of the Human Y-Box Protein YB-1. Backbone Dynamics and Equilibrium between the Native State and a Partially Unfolded State. <i>Biochemistry</i> , 2004, 43, 10237-10246.	1.2	18
63	The Structural Basis of Calcium-Dependent Inactivation of the Transient Receptor Potential Vanilloid 5 Channel. <i>Biochemistry</i> , 2018, 57, 2623-2635.	1.2	18
64	Role of Structural and Dynamical Plasticity in Sin3: The Free PAH2 Domain is a Folded Module in mSin3B. <i>Journal of Molecular Biology</i> , 2006, 358, 485-497.	2.0	17
65	Binding of calcium is sensed structurally and dynamically throughout the second calcium-binding domain of the sodium/calcium exchanger. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 1813-1824.	1.5	17
66	The Second Ca ²⁺ -Binding Domain of NCX1 Binds Mg ²⁺ with High Affinity. <i>Biochemistry</i> , 2011, 50, 8804-8812.	1.2	17
67	Overlapping transport and chaperone-binding functions within a bacterial twin-arginine signal peptide. <i>Molecular Microbiology</i> , 2012, 83, 1254-1267.	1.2	16
68	Structural Analysis of an Epidermal Growth Factor/Transforming Growth Factor- α Chimera with Unique ErbB Binding Specificity. <i>Journal of Biological Chemistry</i> , 2003, 278, 39114-39123.	1.6	15
69	Concepts and tools for NMR restraint analysis and validation. <i>Concepts in Magnetic Resonance</i> , 2004, 22A, 90-105.	1.3	14
70	Solution Structure of the Second PDZ Domain of the Neuronal Adaptor X11 β and its Interaction with the C-terminal Peptide of the Human Copper Chaperone for Superoxide Dismutase. <i>Journal of Biomolecular NMR</i> , 2005, 32, 209-218.	1.6	14
71	Fragment-Based Drug Discovery by NMR. Where Are the Successes and Where can It Be Improved?. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 834453.	1.6	14
72	The interaction of PTP-BL PDZ domains with RIL: An enigmatic role for the RIL LIM domain. <i>Molecular Biology Reports</i> , 2005, 31, 203-215.	1.0	13

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73	Sulfonylurea receptors regulate the channel pore in ATP-sensitive potassium channels via an intersubunit salt bridge. <i>Biochemical Journal</i> , 2014, 464, 343-354.	1.7	13
74	A 15n-filtered 2D 1H TOCSY experiment for assignment of aromatic ring resonances and selective identification of tyrosine ring resonances in proteins: Description and application to Photoactive Yellow Protein. <i>Journal of Biomolecular NMR</i> , 1997, 9, 313-316.	1.6	12
75	Definition of a New Information-Based Per-Residue Quality Parameter. <i>Journal of Biomolecular NMR</i> , 2005, 33, 123-134.	1.6	12
76	CEESY: Characterizing the Conformation of Unobservable Protein States. <i>Journal of the American Chemical Society</i> , 2006, 128, 3856-3857.	6.6	9
77	Overview on the Use of NMR to Examine Protein Structure. <i>Current Protocols in Protein Science</i> , 2011, 64, Unit17.5.	2.8	9
78	Statistical analysis of double NOE transfer pathways in proteins as measured in 3D NOE-NOE spectroscopy. <i>Journal of Biomolecular NMR</i> , 1991, 1, 421-438.	1.6	8
79	CcpNmr AnalysisScreen, a new software programme with dedicated automated analysis tools for fragment-based drug discovery by NMR. <i>Journal of Biomolecular NMR</i> , 2020, 74, 565-577.	1.6	8
80	Expression and purification of the C-terminal fragments of TRPV5/6 channels. <i>Protein Expression and Purification</i> , 2011, 80, 28-33.	0.6	7
81	Structural and dynamic aspects of Ca ²⁺ and Mg ²⁺ binding of the regulatory domains of the Na ⁺ /Ca ²⁺ exchanger. <i>Biochemical Society Transactions</i> , 2012, 40, 409-414.	1.6	7
82	NMR structure note: solution structure of Ca ²⁺ binding domain 2B of the third isoform of the Na ⁺ /Ca ²⁺ exchanger. <i>Journal of Biomolecular NMR</i> , 2012, 54, 115-121.	1.6	6
83	Pulse Sequences for Measuring Coupling Constants. , 2002, , 195-257.		5
84	NMR-Based Modeling and Refinement of Protein 3D Structures. <i>Methods in Molecular Biology</i> , 2015, 1215, 351-380.	0.4	5
85	Sequence-specific assignment of the PAH2 domain of Sin3B free and bound to Mad1. <i>Journal of Biomolecular NMR</i> , 2001, 19, 377-378.	1.6	4
86	Analysis of the structural quality of the CASD-NMR 2013 entries. <i>Journal of Biomolecular NMR</i> , 2015, 62, 527-540.	1.6	4
87	Resonance assignment and secondary structure of the cold shock domain of the human YB-1 protein. <i>Journal of Biomolecular NMR</i> , 1998, 12, 463-464.	1.6	3
88	Sequence-specific 1H, 13C and 15N assignment of the EH1 domain of mouse Eps15. <i>Journal of Biomolecular NMR</i> , 1998, 12, 465-466.	1.6	2
89	A 3D doubly sensitivity enhanced X-filtered TOCSY-TOCSY experiment. <i>Journal of Biomolecular NMR</i> , 2002, 24, 155-160.	1.6	2
90	Sequence-specific 1H, 13C and 15N assignment and secondary structure of the apo EH2 domain of mouse Eps15. <i>Journal of Biomolecular NMR</i> , 1999, 14, 97-98.	1.6	1

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91	Sequence-specific ¹ H, ¹³ C and ¹⁵ N assignment of the single-stranded DNA binding protein of the bacteriophage phi 29. <i>Journal of Biomolecular NMR</i> , 1999, 13, 303-304.	1.6	0
92	Recent Developments in Protein NMR Spectroscopy. , 1996, , 117-120.		0