Mark Rance

List of Publications by Year
in descending order

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30 papers	2,011 citations	567247 15 h-index	501174 28 g-index
31 all docs	31 docs citations	31 times ranked	2221 citing authors

#	Article	IF	Citations
1	Intramolecular motions of a zinc finger DNA-binding domain from Xfin characterized by proton-detected natural abundance carbon-13 heteronuclear NMR spectroscopy. Journal of the American Chemical Society, 1991, 113, 4371-4380.	13.7	616
2	Rotational diffusion anisotropy of proteins from simultaneous analysis of 15N and 13C alpha nuclear spin relaxation. Journal of Biomolecular NMR, 1997, 9, 287-298.	2.8	270
3	A TROSY CPMG sequence for characterizing chemical exchange in large proteins. Journal of Biomolecular NMR, 1999, 15, 151-155.	2.8	217
4	Variability of the15N Chemical Shift Anisotropy inEscherichia coliRibonuclease H in Solution. Journal of the American Chemical Society, 1999, 121, 10119-10125.	13.7	138
5	Protein Side-Chain Dynamics and Residual Conformational Entropy. Journal of the American Chemical Society, 2009, 131, 615-622.	13.7	110
6	Structural mechanism for signal transduction in RXR nuclear receptor heterodimers. Nature Communications, 2015, 6, 8013.	12.8	101
7	NMR analysis of cardiac troponin C-troponin I complexes: effects of phosphorylation. FEBS Letters, 1999, 453, 107-112.	2.8	90
8	Site-site communication in the EF-hand Ca2+-binding protein calbindin D9k. Nature Structural Biology, 2000, 7, 245-250.	9.7	85
9	Toward Quantitative Interpretation of Methyl Side-Chain Dynamics from NMR by Molecular Dynamics Simulations. Journal of the American Chemical Society, 2007, 129, 14146-14147.	13.7	67
10	Solution Structure of the K50 Class Homeodomain PITX2 Bound to DNA and Implications for Mutations That Cause Rieger Syndromeâ€‚â€¡. Biochemistry, 2005, 44, 7497-7511.	2.5	47
11	The Solution Structure of the Native K50 Bicoid Homeodomain Bound to the Consensus TAATCC DNA-binding Site. Journal of Molecular Biology, 2006, 356, 1137-1151.	4.2	46
12	Targeting substrate-site in Jak2 kinase prevents emergence of genetic resistance. Scientific Reports, 2015, 5, 14538.	3.3	45
13	Defining a Canonical Ligand-Binding Pocket in the Orphan Nuclear Receptor Nurr1. Structure, 2019, 27, 66-77.e5.	3.3	37
14	General expressions for R1 relaxation for N-site chemical exchange and the special case of linear chains. Journal of Magnetic Resonance, 2017, 274, 36-45.	2.1	32
15	Effects of Calcium Binding on the Side-chain Methyl Dynamics of Calbindin D9k: A 2H NMR Relaxation Study. Journal of Molecular Biology, 2006, 357, 1237-1252.	4.2	20
16	General Expressions for Carrâ€“Purcellâ€“Meiboomâ€“Gill Relaxation Dispersion for N-Site Chemical Exchange. Biochemistry, 2018, 57, 4753-4763.	2.5	15
17	Temperature dependence of the NMR generalized order parameter. Proteins: Structure, Function and Bioinformatics, 2006, 66, 796-803.	2.6	12
18	Enhanced spectral density mapping through combined multiple-field deuterium 13CH2D methyl spin relaxation NMR spectroscopy. Methods, 2018, 138-139, 76-84.	3.8	12

#	Article	IF	Citations
19	Lysine Side-Chain Dynamics in the Binding Site of Homeodomain/DNA Complexes As Observed by NMR Relaxation Experiments and Molecular Dynamics Simulations. Biochemistry, 2018, 57, 2796-2813.	2.5	11
20	The N-Terminal Basolateral Targeting Signal Unlikely Acts Alone in the Differential Trafficking of Membrane Transporters in MDCK Cells. Biochemistry, 2013, 52, 5103-5116.	2.5	9
21	Structural and Biophysical Insights into the Ligand-Free Pitx2 Homeodomain and a Ring Dermoid of the Cornea Inducing Homeodomain Mutant. Biochemistry, 2012, 51, 665-676.	2.5	7
22	Rotation operator propagators for time-varying radiofrequency pulses in NMR spectroscopy: Applications to shaped pulses and pulse trains. Journal of Magnetic Resonance, 2014, 248, 105-114.	2.1	7
23	A Metabolic Activation Mechanism of 7 H -Dibenzo[c,g]carbazole Via o -Quinone. Part 1: Synthesis of 7 H -Dibenzo[c,g]carbazole-3,4-dione and Reactions with Nucleophiles. Polycyclic Aromatic Compounds, 2002, 22, 295-300.	2.6	5
24	1H, 13C and 15N chemical shift assignments for the human Pitx2 homeodomain and a R24H homeodomain mutant. Biomolecular NMR Assignments, 2011, 5, 105-107.	0.8	4
25	Effect of monovalent ion binding on molecular dynamics of the S100â€family calciumâ€binding protein calbindin D 9k. Journal of Computational Chemistry, 2019, 40, 1936-1945.	3.3	3
26	Algebraic expressions for Carr-Purcell-Meiboom-Gill relaxation dispersion for N-site chemical exchange. Journal of Magnetic Resonance, 2020, 321, 106846.	2.1	3
27	Compact expressions for R1 relaxation for N-site chemical exchange using Schur decomposition. Journal of Magnetic Resonance, 2020, 313, 106705.	2.1	1
28	A Metabolic Activation Mechanism of 7 H -Dibenzo[c,g]carbazole Via o -Quinone. Part 1: Synthesis of 7 H -Dibenzo[c,g]carbazole-3,4-dione and Reactions with Nucleophiles. Polycyclic Aromatic Compounds, 2002, 22, 295-300.	2.6	1
29	1H, 13C and 15N chemical shift assignments for the human Pitx2 homeodomain in complex with a 22-base hairpin DNA. Biomolecular NMR Assignments, 2012, 6, 79-81.	0.8	0
30	Exploring a New Approach for Discovery of Conformational Heterogeneity in Homeodomainâ€“DNA Complexes. Biochemistry, 2017, 56, 5033-5034.	2.5	0