

Mark Rance

List of Publications by Citations

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30
papers

1,793
citations

15
h-index

31
g-index

31
ext. papers

1,902
ext. citations

5.6
avg, IF

4.19
L-index

#	Paper	IF	Citations
30	Intramolecular motions of a zinc finger DNA-binding domain from Xfin characterized by proton-detected natural abundance carbon-13 heteronuclear NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 1991 , 113, 4371-4380	16.4	575
29	Rotational diffusion anisotropy of proteins from simultaneous analysis of 15N and 13C alpha nuclear spin relaxation. <i>Journal of Biomolecular NMR</i> , 1997 , 9, 287-98	3	246
28	A TROSY CPMG sequence for characterizing chemical exchange in large proteins. <i>Journal of Biomolecular NMR</i> , 1999 , 15, 151-5	3	199
27	Variability of the 15N Chemical Shift Anisotropy in Escherichia coli Ribonuclease H in Solution. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10119-10125	16.4	126
26	Protein side-chain dynamics and residual conformational entropy. <i>Journal of the American Chemical Society</i> , 2009 , 131, 615-22	16.4	102
25	Structural mechanism for signal transduction in RXR nuclear receptor heterodimers. <i>Nature Communications</i> , 2015 , 6, 8013	17.4	84
24	NMR analysis of cardiac troponin C-troponin I complexes: effects of phosphorylation. <i>FEBS Letters</i> , 1999 , 453, 107-12	3.8	82
23	Site-site communication in the EF-hand Ca ²⁺ -binding protein calbindin D9k. <i>Nature Structural Biology</i> , 2000 , 7, 245-50		74
22	Toward quantitative interpretation of methyl side-chain dynamics from NMR by molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14146-7	16.4	64
21	Solution structure of the K50 class homeodomain PITX2 bound to DNA and implications for mutations that cause Rieger syndrome. <i>Biochemistry</i> , 2005 , 44, 7497-511	3.2	42
20	The solution structure of the native K50 Bicoid homeodomain bound to the consensus TAATCC DNA-binding site. <i>Journal of Molecular Biology</i> , 2006 , 356, 1137-51	6.5	38
19	Defining a Canonical Ligand-Binding Pocket in the Orphan Nuclear Receptor Nurr1. <i>Structure</i> , 2019 , 27, 66-77.e5	5.2	26
18	Targeting substrate-site in Jak2 kinase prevents emergence of genetic resistance. <i>Scientific Reports</i> , 2015 , 5, 14538	4.9	24
17	General expressions for R relaxation for N-site chemical exchange and the special case of linear chains. <i>Journal of Magnetic Resonance</i> , 2017 , 274, 36-45	3	22
16	Effects of calcium binding on the side-chain methyl dynamics of calbindin D9k: a 2H NMR relaxation study. <i>Journal of Molecular Biology</i> , 2006 , 357, 1237-52	6.5	19
15	General Expressions for Carr-Purcell-Meiboom-Gill Relaxation Dispersion for N-Site Chemical Exchange. <i>Biochemistry</i> , 2018 , 57, 4753-4763	3.2	11
14	Temperature dependence of the NMR generalized order parameter. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 66, 796-803	4.2	11

13	Lysine Side-Chain Dynamics in the Binding Site of Homeodomain/DNA Complexes As Observed by NMR Relaxation Experiments and Molecular Dynamics Simulations. <i>Biochemistry</i> , 2018 , 57, 2796-2813	3.2	10
12	Enhanced spectral density mapping through combined multiple-field deuterium CHD methyl spin relaxation NMR spectroscopy. <i>Methods</i> , 2018 , 138-139, 76-84	4.6	9
11	The N-terminal basolateral targeting signal unlikely acts alone in the differential trafficking of membrane transporters in MDCK cells. <i>Biochemistry</i> , 2013 , 52, 5103-5116	3.2	7
10	Structural and biophysical insights into the ligand-free Pitx2 homeodomain and a ring dermoid of the cornea inducing homeodomain mutant. <i>Biochemistry</i> , 2012 , 51, 665-76	3.2	7
9	Rotation operator propagators for time-varying radiofrequency pulses in NMR spectroscopy: applications to shaped pulses and pulse trains. <i>Journal of Magnetic Resonance</i> , 2014 , 248, 105-14	3	4
8	¹ H, ¹³ C and ¹⁵ N chemical shift assignments for the human Pitx2 homeodomain and a R24H homeodomain mutant. <i>Biomolecular NMR Assignments</i> , 2011 , 5, 105-7	0.7	4
7	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. <i>Polycyclic Aromatic Compounds</i> , 2002 , 22, 295-300	1.3	4
6	Effect of monovalent ion binding on molecular dynamics of the S100-family calcium-binding protein calbindin D. <i>Journal of Computational Chemistry</i> , 2019 , 40, 1936-1945	3.5	1
5	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		1
4	Algebraic expressions for Carr-Purcell-Meiboom-Gill relaxation dispersion for N-site chemical exchange. <i>Journal of Magnetic Resonance</i> , 2020 , 321, 106846	3	1
3	Compact expressions for R relaxation for N-site chemical exchange using Schur decomposition. <i>Journal of Magnetic Resonance</i> , 2020 , 313, 106705	3	0
2	Exploring a New Approach for Discovery of Conformational Heterogeneity in Homeodomain-DNA Complexes. <i>Biochemistry</i> , 2017 , 56, 5033-5034	3.2	
1	¹ H, ¹³ C and ¹⁵ N chemical shift assignments for the human Pitx2 homeodomain in complex with a 22-base hairpin DNA. <i>Biomolecular NMR Assignments</i> , 2012 , 6, 79-81	0.7	