

# Mark Rance

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Compact expressions for R relaxation for N-site chemical exchange using Schur decomposition. <i>Journal of Magnetic Resonance</i> , <b>2020</b> , 313, 106705	3	0
29	Algebraic expressions for Carr-Purcell-Meiboom-Gill relaxation dispersion for N-site chemical exchange. <i>Journal of Magnetic Resonance</i> , <b>2020</b> , 321, 106846	3	1
28	Effect of monovalent ion binding on molecular dynamics of the S100-family calcium-binding protein calbindin D. <i>Journal of Computational Chemistry</i> , <b>2019</b> , 40, 1936-1945	3.5	1
27	Defining a Canonical Ligand-Binding Pocket in the Orphan Nuclear Receptor Nurr1. <i>Structure</i> , <b>2019</b> , 27, 66-77.e5	5.2	26
26	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> , <b>2018</b> , 57, 2796-2813	3.2	10
25	Enhanced spectral density mapping through combined multiple-field deuterium CHD methyl spin relaxation NMR spectroscopy. <i>Methods</i> , <b>2018</b> , 138-139, 76-84	4.6	9
24	General Expressions for Carr-Purcell-Meiboom-Gill Relaxation Dispersion for N-Site Chemical Exchange. <i>Biochemistry</i> , <b>2018</b> , 57, 4753-4763	3.2	11
23	Exploring a New Approach for Discovery of Conformational Heterogeneity in Homeodomain-DNA Complexes. <i>Biochemistry</i> , <b>2017</b> , 56, 5033-5034	3.2	
22	General expressions for R relaxation for N-site chemical exchange and the special case of linear chains. <i>Journal of Magnetic Resonance</i> , <b>2017</b> , 274, 36-45	3	22
21	Structural mechanism for signal transduction in RXR nuclear receptor heterodimers. <i>Nature Communications</i> , <b>2015</b> , 6, 8013	17.4	84
20	Targeting substrate-site in Jak2 kinase prevents emergence of genetic resistance. <i>Scientific Reports</i> , <b>2015</b> , 5, 14538	4.9	24
19	Rotation operator propagators for time-varying radiofrequency pulses in NMR spectroscopy: applications to shaped pulses and pulse trains. <i>Journal of Magnetic Resonance</i> , <b>2014</b> , 248, 105-14	3	4
18	The N-terminal basolateral targeting signal unlikely acts alone in the differential trafficking of membrane transporters in MDCK cells. <i>Biochemistry</i> , <b>2013</b> , 52, 5103-5116	3.2	7
17	Structural and biophysical insights into the ligand-free Pitx2 homeodomain and a ring dermoid of the cornea inducing homeodomain mutant. <i>Biochemistry</i> , <b>2012</b> , 51, 665-76	3.2	7
16	$^1\text{H}$ , $^{13}\text{C}$ and $^{15}\text{N}$ chemical shift assignments for the human Pitx2 homeodomain in complex with a 22-base hairpin DNA. <i>Biomolecular NMR Assignments</i> , <b>2012</b> , 6, 79-81	0.7	
15	$^1\text{H}$ , $^{13}\text{C}$ and $^{15}\text{N}$ chemical shift assignments for the human Pitx2 homeodomain and a R24H homeodomain mutant. <i>Biomolecular NMR Assignments</i> , <b>2011</b> , 5, 105-7	0.7	4
14	Protein side-chain dynamics and residual conformational entropy. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 615-22	16.4	102

13	Toward quantitative interpretation of methyl side-chain dynamics from NMR by molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14146-7	16.4	64
12	Temperature dependence of the NMR generalized order parameter. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 66, 796-803	4.2	11
11	The solution structure of the native K50 Bicoid homeodomain bound to the consensus TAATCC DNA-binding site. <i>Journal of Molecular Biology</i> , <b>2006</b> , 356, 1137-51	6.5	38
10	Effects of calcium binding on the side-chain methyl dynamics of calbindin D9k: a 2H NMR relaxation study. <i>Journal of Molecular Biology</i> , <b>2006</b> , 357, 1237-52	6.5	19
9	Solution structure of the K50 class homeodomain PITX2 bound to DNA and implications for mutations that cause Rieger syndrome. <i>Biochemistry</i> , <b>2005</b> , 44, 7497-511	3.2	42
8	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> , <b>2002</b> , 22, 295-300	1.3	4
7	Site-site communication in the EF-hand Ca <sup>2+</sup> -binding protein calbindin D9k. <i>Nature Structural Biology</i> , <b>2000</b> , 7, 245-50		74
6	Variability of the 15N Chemical Shift Anisotropy in Escherichia coli Ribonuclease H in Solution. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 10119-10125	16.4	126
5	A TROSY CPMG sequence for characterizing chemical exchange in large proteins. <i>Journal of Biomolecular NMR</i> , <b>1999</b> , 15, 151-5	3	199
4	NMR analysis of cardiac troponin C-troponin I complexes: effects of phosphorylation. <i>FEBS Letters</i> , <b>1999</b> , 453, 107-12	3.8	82
3	Rotational diffusion anisotropy of proteins from simultaneous analysis of 15N and 13C alpha nuclear spin relaxation. <i>Journal of Biomolecular NMR</i> , <b>1997</b> , 9, 287-98	3	246
2	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> , <b>1991</b> , 113, 4371-4380	16.4	575
1	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