

Renee Otten

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,668
citations

331670

21
h-index

477307

29
g-index

33
all docs

33
docs citations

33
times ranked

2813
citing authors

#	ARTICLE	IF	CITATIONS
1	Subpolar addition of new cell wall is directed by DivIVA in mycobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3243-51.	7.1	159
2	The energy landscape of adenylate kinase during catalysis. Nature Structural and Molecular Biology, 2015, 22, 124-131.	8.2	150
3	Using ancient protein kinases to unravel a modern cancer drug's mechanism. Science, 2015, 347, 882-886.	12.6	142
4	Long Unfolded Linkers Facilitate Membrane Protein Import Through the Nuclear Pore Complex. Science, 2011, 333, 90-93.	12.6	128
5	Fluoride resistance and transport by riboswitch-controlled CLC antiporters. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15289-15294.	7.1	125
6	Energetic dissection of Gleevec's selectivity toward human tyrosine kinases. Nature Structural and Molecular Biology, 2014, 21, 848-853.	8.2	103
7	How directed evolution reshapes the energy landscape in an enzyme to boost catalysis. Science, 2020, 370, 1442-1446.	12.6	101
8	Rescue of conformational dynamics in enzyme catalysis by directed evolution. Nature Communications, 2018, 9, 1314.	12.8	97
9	Mechanism of activating mutations and allosteric drug inhibition of the phosphatase SHP2. Nature Communications, 2018, 9, 4507.	12.8	83
10	Comprehensive and Cost-Effective NMR Spectroscopy of Methyl Groups in Large Proteins. Journal of the American Chemical Society, 2010, 132, 2952-2960.	13.7	63
11	Comprehensive analysis of NMR data using advanced line shape fitting. Journal of Biomolecular NMR, 2017, 69, 93-99.	2.8	57
12	Conformational Selection in a Protein-Protein Interaction Revealed by Dynamic Pathway Analysis. Cell Reports, 2016, 14, 32-42.	6.4	52
13	Structure determination of high-energy states in a dynamic protein ensemble. Nature, 2022, 603, 528-535.	27.8	51
14	Probing Microsecond Time Scale Dynamics in Proteins by Methyl ¹ H Carr-Purcell-Meiboom-Gill Relaxation Dispersion NMR Measurements. Application to Activation of the Signaling Protein NtrCr. Journal of the American Chemical Society, 2010, 132, 17004-17014.	13.7	48
15	Dynamics of human protein kinase Aurora A linked to drug selectivity. ELife, 2018, 7, .	6.0	37
16	Cavity as a Source of Conformational Fluctuation and High-Energy State: High-Pressure NMR Study of a Cavity-Enlarged Mutant of T4Lysozyme. Biophysical Journal, 2015, 108, 133-145.	0.5	36
17	Protein Surface and Core Dynamics Show Concerted Hydration-Dependent Activation. Angewandte Chemie - International Edition, 2013, 52, 665-668.	13.8	32
18	Probing the transition state in enzyme catalysis by high-pressure NMR dynamics. Nature Catalysis, 2019, 2, 726-734.	34.4	30

#	ARTICLE	IF	CITATIONS
19	The Solution Structure, Binding Properties, and Dynamics of the Bacterial Siderophore-binding Protein FepB. <i>Journal of Biological Chemistry</i> , 2014, 289, 29219-29234.	3.4	29
20	Conformational Fluctuations Affect Protein Alignment in Dilute Liquid Crystal Media. <i>Journal of the American Chemical Society</i> , 2006, 128, 4371-4376.	13.7	26
21	Optimized co-solute paramagnetic relaxation enhancement for the rapid NMR analysis of a highly fibrillogenic peptide. <i>Journal of Biomolecular NMR</i> , 2015, 62, 129-142.	2.8	26
22	A minor conformation of a lanthanide tag on adenylate kinase characterized by paramagnetic relaxation dispersion NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2015, 61, 123-136.	2.8	20
23	Cystathionine β -Synthase (CBS) Domains 1 and 2 Fulfill Different Roles in Ionic Strength Sensing of the ATP-binding Cassette (ABC) Transporter OpuA. <i>Journal of Biological Chemistry</i> , 2011, 286, 37280-37291.	3.4	18
24	100% complete assignment of non-labile ^1H , ^{13}C , and ^{15}N signals for calcium-loaded calbindin D9k P43G. <i>Biomolecular NMR Assignments</i> , 2011, 5, 79-84.	0.8	14
25	Comprehensive determination of $^3\text{J}_{\text{HNH}'} \pm$ for unfolded proteins using ^{13}C -resolved spin-echo difference spectroscopy. <i>Journal of Biomolecular NMR</i> , 2009, 45, 343-349.	2.8	10
26	Origin and removal of mixed-phase artifacts in gradient sensitivity enhanced heteronuclear single quantum correlation spectra. <i>Journal of Biomolecular NMR</i> , 2011, 51, 199-207.	2.8	9
27	Letter to the Editor: ^1H , ^{13}C , and ^{15}N resonance assignments of the phosphorylated enzyme IIB of the mannitol-specific phosphoenolpyruvate-dependent phosphotransferase system of <i>Escherichia coli</i> . <i>Journal of Biomolecular NMR</i> , 2004, 30, 461-462.	2.8	7
28	Backbone and side chain NMR assignments for the intrinsically disordered cytoplasmic domain of human neuroligin-3. <i>Biomolecular NMR Assignments</i> , 2012, 6, 15-18.	0.8	7
29	Evidence of molecular alignment fluctuations in aqueous dilute liquid crystalline media. <i>Journal of Biomolecular NMR</i> , 2007, 39, 141-152.	2.8	6