

Niels Fischer

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

3,079
citations

567281

15
h-index

888059

17
g-index

22
all docs

22
docs citations

22
times ranked

3841
citing authors

#	ARTICLE	IF	CITATIONS
1	GraFix: sample preparation for single-particle electron cryomicroscopy. <i>Nature Methods</i> , 2008, 5, 53-55.	19.0	476
2	Atomic-resolution protein structure determination by cryo-EM. <i>Nature</i> , 2020, 587, 157-161.	27.8	454
3	Ribosome dynamics and tRNA movement by time-resolved electron cryomicroscopy. <i>Nature</i> , 2010, 466, 329-333.	27.8	400
4	Structural Basis for the Function of the Ribosomal L7/12 Stalk in Factor Binding and GTPase Activation. <i>Cell</i> , 2005, 121, 991-1004.	28.9	354
5	Structure of the E. coli ribosomeâ€EF-Tu complex at <3Å... resolution by Cs-corrected cryo-EM. <i>Nature</i> , 2015, 520, 567-570.	27.8	338
6	Experimental Identification of Downhill Protein Folding. <i>Science</i> , 2002, 298, 2191-2195.	12.6	290
7	Energy barriers and driving forces in tRNA translocation through the ribosome. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1390-1396.	8.2	150
8	GraDeR: Membrane Protein Complex Preparation for Single-Particle Cryo-EM. <i>Structure</i> , 2015, 23, 1769-1775.	3.3	96
9	The pathway to GTPase activation of elongation factor SelB on the ribosome. <i>Nature</i> , 2016, 540, 80-85.	27.8	93
10	Spontaneous reverse movement of mRNA-bound tRNA through the ribosome. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 318-324.	8.2	87
11	ProteoPlex: stability optimization of macromolecular complexes by sparse-matrix screening of chemical space. <i>Nature Methods</i> , 2015, 12, 859-865.	19.0	87
12	Ribosome dynamics during decoding. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160182.	4.0	76
13	Fluctuations between multiple EF-G-induced chimeric tRNA states during translocation on the ribosome. <i>Nature Communications</i> , 2015, 6, 7442.	12.8	55
14	Structural mechanism of GTPase-powered ribosome-tRNA movement. <i>Nature Communications</i> , 2021, 12, 5933.	12.8	33
15	Mechanism of ribosome rescue by alternative ribosome-rescue factor B. <i>Nature Communications</i> , 2020, 11, 4106.	12.8	26
16	Towards understanding selenocysteine incorporation into bacterial proteins. <i>Biological Chemistry</i> , 2007, 388, 1061-1067.	2.5	16
17	Conformational rearrangements upon start codon recognition in human 48S translation initiation complex. <i>Nucleic Acids Research</i> , 2022, 50, 5282-5298.	14.5	15
18	Functions of elongation factor G in translocation and ribosome recycling. , 2011, , 329-338.		8