

Katherine A Henzler-Wildman

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32
papers

4,600
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41
ext. papers

5,175
ext. citations

12.1
avg, IF

5.57
L-index

#	Paper	IF	Citations
32	Dynamic personalities of proteins. <i>Nature</i> , 2007 , 450, 964-72	50.4	1672
31	A hierarchy of timescales in protein dynamics is linked to enzyme catalysis. <i>Nature</i> , 2007 , 450, 913-6	50.4	841
30	Intrinsic motions along an enzymatic reaction trajectory. <i>Nature</i> , 2007 , 450, 838-44	50.4	706
29	Linkage between dynamics and catalysis in a thermophilic-mesophilic enzyme pair. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 945-9	17.6	403
28	Perturbation of the hydrophobic core of lipid bilayers by the human antimicrobial peptide LL-37. <i>Biochemistry</i> , 2004 , 43, 8459-69	3.2	226
27	Antiparallel EmrE exports drugs by exchanging between asymmetric structures. <i>Nature</i> , 2011 , 481, 45-50	50.4	159
26	NMR structure of the cathelicidin-derived human antimicrobial peptide LL-37 in dodecylphosphocholine micelles. <i>Biochemistry</i> , 2008 , 47, 5565-72	3.2	139
25	Red blood cell invasion by Plasmodium vivax: structural basis for DBP engagement of DARC. <i>PLoS Pathogens</i> , 2014 , 10, e1003869	7.6	65
24	Expression and purification of a recombinant LL-37 from Escherichia coli. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 1351-8	3.8	63
23	Reconstitution of integral membrane proteins into isotropic bicelles with improved sample stability and expanded lipid composition profile. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 814-20	3.8	50
22	Nitrogen-14 solid-state NMR spectroscopy of aligned phospholipid bilayers to probe peptide-lipid interaction and oligomerization of membrane associated peptides. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11023-9	16.4	42
21	Integrative NMR for biomolecular research. <i>Journal of Biomolecular NMR</i> , 2016 , 64, 307-32	3	36
20	Transported substrate determines exchange rate in the multidrug resistance transporter EmrE. <i>Journal of Biological Chemistry</i> , 2014 , 289, 6825-6836	5.4	31
19	New free-exchange model of EmrE transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10083-E10091	11.5	30
18	Asymmetric protonation of EmrE. <i>Journal of General Physiology</i> , 2015 , 146, 445-61	3.4	26
17	Blocking dynamics of the SMR transporter EmrE impairs efflux activity. <i>Biophysical Journal</i> , 2014 , 107, 613-620	2.9	16
16	Analyzing conformational changes in the transport cycle of EmrE. <i>Current Opinion in Structural Biology</i> , 2012 , 22, 38-43	8.1	14

15	Role of protein dynamics in ion selectivity and allosteric coupling in the NaK channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15366-71	11.5	12
14	Structure and dynamics of the drug-bound bacterial transporter EmrE in lipid bilayers. <i>Nature Communications</i> , 2021 , 12, 172	17.4	12
13	Identification of an Alternating-Access Dynamics Mutant of EmrE with Impaired Transport. <i>Journal of Molecular Biology</i> , 2019 , 431, 2777-2789	6.5	11
12	Highly coupled transport can be achieved in free-exchange transport models. <i>Journal of General Physiology</i> , 2020 , 152,	3.4	11
11	EmrE dimerization depends on membrane environment. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 1817-22	3.8	10
10	The C terminus of the bacterial multidrug transporter EmrE couples drug binding to proton release. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19137-19147	5.4	9
9	NMR Structural Analysis of Isolated Shaker Voltage-Sensing Domain in LPPG Micelles. <i>Biophysical Journal</i> , 2019 , 117, 388-398	2.9	3
8	Ion-dependent structure, dynamics, and allosteric coupling in a non-selective cation channel. <i>Nature Communications</i> , 2021 , 12, 6225	17.4	3
7	Mapping temperature-dependent conformational change in the voltage-sensing domain of an engineered heat-activated K channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
6	A mass spectrometry based transport assay for studying EmrE transport of unlabeled substrates. <i>Analytical Biochemistry</i> , 2018 , 549, 130-135	3.1	2
5	H, C, and N backbone and side chain chemical shift assignments of the SARS-CoV-2 non-structural protein 7. <i>Biomolecular NMR Assignments</i> , 2021 , 15, 73-77	0.7	2
4	Unlocking the Reversal Potential of Solid Supported Membrane Electrophysiology to Determine Transport Stoichiometry		1
3	A solid-supported membrane electrophysiology assay for efficient characterization of ion-coupled transport. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101220	5.4	1
2	High-pH structure of EmrE reveals the mechanism of proton-coupled substrate transport.. <i>Nature Communications</i> , 2022 , 13, 991	17.4	1
1	A free-exchange mathematical model of EmrE. <i>FASEB Journal</i> , 2019 , 33, 656.6	0.9	