

Hendrik Sielaff

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

992
citations

759233

12
h-index

888059

17
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27
all docs

27
docs citations

27
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	Torque generation and elastic power transmission in the rotary FOF1-ATPase. <i>Nature</i> , 2009, 459, 364-370.	27.8	334
2	One-step selection of Vaccinia virus-binding DNA aptamers by MonoLEX. <i>BMC Biotechnology</i> , 2007, 7, 48.	3.3	139
3	Domain compliance and elastic power transmission in rotary F _O F ₁ -ATPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17760-17765.	7.1	108
4	Two rotary motors in F-ATP synthase are elastically coupled by a flexible rotor and a stiff stator stalk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3924-3929.	7.1	90
5	Functional Halt Positions of Rotary FOF1-ATPase Correlated with Crystal Structures. <i>Biophysical Journal</i> , 2008, 95, 4979-4987.	0.5	57
6	The regulatory subunit $\hat{\mu}$ in Escherichia coli FOF1-ATP synthase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 775-788.	1.0	41
7	Twisting and subunit rotation in single F _O F ₁ -ATP synthase. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120024.	4.0	40
8	The uniqueness of subunit $\hat{\mu}$ of mycobacterial F-ATP synthases: An evolutionary variant for niche adaptation. <i>Journal of Biological Chemistry</i> , 2017, 292, 11262-11279.	3.4	33
9	The Molecular Motor F-ATP Synthase Is Targeted by the Tumoricidal Protein HAMLET. <i>Journal of Molecular Biology</i> , 2015, 427, 1866-1874.	4.2	29
10	Power Stroke Angular Velocity Profiles of Archaeal A-ATP Synthase Versus Thermophilic and Mesophilic F-ATP Synthase Molecular Motors. <i>Journal of Biological Chemistry</i> , 2016, 291, 25351-25363.	3.4	25
11	Evidence of a Folding Intermediate in RNase H from Single-Molecule FRET Experiments. <i>ChemPhysChem</i> , 2011, 12, 627-633.	2.1	22
12	Structural Asymmetry and Kinetic Limping of Single Rotary F-ATP Synthases. <i>Molecules</i> , 2019, 24, 504.	3.8	21
13	The Torque of Rotary F-ATPase Can Unfold Subunit Gamma If Rotor and Stator Are Cross-Linked. <i>PLoS ONE</i> , 2013, 8, e53754.	2.5	11
14	The stimulating role of subunit F in ATPase activity inside the A1-complex of the Methanosarcina mazei $\hat{\mu}$ ATP synthase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 177-187.	1.0	10
15	Conformational dynamics of the rotary subunit F in the A ₃ B ₃ DF complex of <i>Methanosarcina mazei</i> $\hat{\mu}$ ATP synthase monitored by single-molecule FRET. <i>FEBS Letters</i> , 2017, 591, 854-862.	2.8	8
16	Monitoring subunit rotation in single FRET-labeled FoF1-ATP synthase in an anti-Brownian electrokinetic trap. , 2013, , .		5
17	Subunit rotation in single FRET-labeled F1-ATPase hold in solution by an anti-Brownian electrokinetic trap. , 2013, , .		5
18	Observing monomer: dimer transitions of neurotensin receptors 1 in single SMALPs by homoFRET and in an ABELtrap. , 2019, , .		5

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19	The structural features of <i>Acetobacterium woodii</i> F ₁ -ATP synthase reveal the importance of the unique subunit $\hat{\epsilon}$ -loop in Na ⁺ translocation and ATP synthesis. <i>FEBS Journal</i> , 2019, 286, 1894-1907.	4.7	4
20	Single-molecule FRET combined with electrokinetic trapping reveals real-time enzyme kinetics of individual F ₁ -ATP synthases. <i>Nanoscale</i> , 2022, 14, 2327-2336.	5.6	4
21	Ligand-induced oligomerization of the human GPCR neurotensin receptor 1 monitored in living HEK293T cells. , 2019, , .		1
22	S1.49 Kinetics of the F ₁ -ATPase of <i>E. coli</i> before and after blocking the C-terminal end of $\hat{\epsilon}$. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2008, 1777, S21.	1.0	0
23	Subunit F of A ₁ -ATP synthases is an ATPase stimulating subunit. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, e21.	1.0	0
24	The uniqueness of subunit $\hat{\epsilon}$ and $\hat{\epsilon}$ of mycobacterial F ₁ -ATP synthases: Evolutionary variants for niche adaptation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, e90.	1.0	0
25	Analyzing conformational changes in single FRET-labeled A ₁ parts of archaeal A ₁ AO-ATP synthase. , 2018, , .		0