

Andre Berndt

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

5,172
citations

361045

20
h-index

713013

21
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23
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23
docs citations

23
times ranked

6817
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for ion selectivity and engineering in channelrhodopsins. <i>Current Opinion in Structural Biology</i> , 2019, 57, 176-184.	2.6	10
2	Molecular Engineering of Channelrhodopsins for Enhanced Control over the Nervous System. <i>Neuromethods</i> , 2018, , 43-62.	0.2	0
3	Structural mechanisms of selectivity and gating in anion channelrhodopsins. <i>Nature</i> , 2018, 561, 349-354.	13.7	67
4	Optogenetic approaches addressing extracellular modulation of neural excitability. <i>Scientific Reports</i> , 2016, 6, 23947.	1.6	34
5	Optogenetic and chemogenetic strategies for sustained inhibition of pain. <i>Scientific Reports</i> , 2016, 6, 30570.	1.6	72
6	Simultaneous fast measurement of circuit dynamics at multiple sites across the mammalian brain. <i>Nature Methods</i> , 2016, 13, 325-328.	9.0	359
7	Structural foundations of optogenetics: Determinants of channelrhodopsin ion selectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 822-829.	3.3	197
8	Expanding the optogenetics toolkit. <i>Science</i> , 2015, 349, 590-591.	6.0	29
9	Projections from neocortex mediate top-down control of memory retrieval. <i>Nature</i> , 2015, 526, 653-659.	13.7	376
10	A skin-inspired organic digital mechanoreceptor. <i>Science</i> , 2015, 350, 313-316.	6.0	708
11	Prolonged, brain-wide expression of nuclear-localized GCaMP3 for functional circuit mapping. <i>Frontiers in Neural Circuits</i> , 2014, 8, 138.	1.4	32
12	Structure-Guided Transformation of Channelrhodopsin into a Light-Activated Chloride Channel. <i>Science</i> , 2014, 344, 420-424.	6.0	354
13	Targeting cells with single vectors using multiple-feature Boolean logic. <i>Nature Methods</i> , 2014, 11, 763-772.	9.0	427
14	In Channelrhodopsin-2 Glu-90 Is Crucial for Ion Selectivity and Is Deprotonated during the Photocycle. <i>Journal of Biological Chemistry</i> , 2012, 287, 6904-6911.	1.6	84
15	Rectification of the Channelrhodopsin Early Conductance. <i>Biophysical Journal</i> , 2011, 101, 1057-1068.	0.2	51
16	The Microbial Opsin Family of Optogenetic Tools. <i>Cell</i> , 2011, 147, 1446-1457.	13.5	471
17	High-efficiency channelrhodopsins for fast neuronal stimulation at low light levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7595-7600.	3.3	409
18	Ultrafast optogenetic control. <i>Nature Neuroscience</i> , 2010, 13, 387-392.	7.1	660

#	ARTICLE	IF	CITATIONS
19	Two Open States with Progressive Proton Selectivities in the Branched Channelrhodopsin-2 Photocycle. <i>Biophysical Journal</i> , 2010, 98, 753-761.	0.2	61
20	The Branched Photocycle of the Slow-Cycling Channelrhodopsin-2 Mutant C128T. <i>Journal of Molecular Biology</i> , 2010, 398, 690-702.	2.0	63
21	Bi-stable neural state switches. <i>Nature Neuroscience</i> , 2009, 12, 229-234.	7.1	533
22	Monitoring Light-induced Structural Changes of Channelrhodopsin-2 by UV-visible and Fourier Transform Infrared Spectroscopy. <i>Journal of Biological Chemistry</i> , 2008, 283, 35033-35041.	1.6	169