

# Andre Berndt

## List of Publications by Year in descending order

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22  
papers

5,172  
citations

361045  
20  
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713013  
21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

6817  
citing authors

#	ARTICLE	IF	CITATIONS
1	A skin-inspired organic digital mechanoreceptor. Science, 2015, 350, 313-316.	6.0	708
2	Ultrafast optogenetic control. Nature Neuroscience, 2010, 13, 387-392.	7.1	660
3	Bi-stable neural state switches. Nature Neuroscience, 2009, 12, 229-234.	7.1	533
4	The Microbial Opsin Family of Optogenetic Tools. Cell, 2011, 147, 1446-1457.	13.5	471
5	Targeting cells with single vectors using multiple-feature Boolean logic. Nature Methods, 2014, 11, 763-772.	9.0	427
6	High-efficiency channelrhodopsins for fast neuronal stimulation at low light levels. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7595-7600.	3.3	409
7	Projections from neocortex mediate top-down control of memory retrieval. Nature, 2015, 526, 653-659.	13.7	376
8	Simultaneous fast measurement of circuit dynamics at multiple sites across the mammalian brain. Nature Methods, 2016, 13, 325-328.	9.0	359
9	Structure-Guided Transformation of Channelrhodopsin into a Light-Activated Chloride Channel. Science, 2014, 344, 420-424.	6.0	354
10	Structural foundations of optogenetics: Determinants of channelrhodopsin ion selectivity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 822-829.	3.3	197
11	Monitoring Light-induced Structural Changes of Channelrhodopsin-2 by UV-visible and Fourier Transform Infrared Spectroscopy. Journal of Biological Chemistry, 2008, 283, 35033-35041.	1.6	169
12	In Channelrhodopsin-2 Glu-90 Is Crucial for Ion Selectivity and Is Deprotonated during the Photocycle. Journal of Biological Chemistry, 2012, 287, 6904-6911.	1.6	84
13	Optogenetic and chemogenetic strategies for sustained inhibition of pain. Scientific Reports, 2016, 6, 30570.	1.6	72
14	Structural mechanisms of selectivity and gating in anion channelrhodopsins. Nature, 2018, 561, 349-354.	13.7	67
15	The Branched Photocycle of the Slow-Cycling Channelrhodopsin-2 Mutant C128T. Journal of Molecular Biology, 2010, 398, 690-702.	2.0	63
16	Two Open States with Progressive Proton Selectivities in the Branched Channelrhodopsin-2 Photocycle. Biophysical Journal, 2010, 98, 753-761.	0.2	61
17	Rectification of the Channelrhodopsin Early Conductance. Biophysical Journal, 2011, 101, 1057-1068.	0.2	51
18	Optogenetic approaches addressing extracellular modulation of neural excitability. Scientific Reports, 2016, 6, 23947.	1.6	34

#	ARTICLE	IF	CITATIONS
19	Prolonged, brain-wide expression of nuclear-localized GCaMP3 for functional circuit mapping. Frontiers in Neural Circuits, 2014, 8, 138.	1.4	32
20	Expanding the optogenetics toolkit. Science, 2015, 349, 590-591.	6.0	29
21	Structural basis for ion selectivity and engineering in channelrhodopsins. Current Opinion in Structural Biology, 2019, 57, 176-184.	2.6	10
22	Molecular Engineering of Channelrhodopsins for Enhanced Control over the Nervous System. Neuromethods, 2018, , 43-62.	0.2	0