Johannes Vierock

List of Publications by Year
in descending order

13	991	840585 11	1125617 13
papers	citations	h-index	g-index

19	19	19	1510
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Microbial Opsin Family of Optogenetic Tools. Cell, 2011, 147, 1446-1457.	13.5	471
2	Crystal structure of the red light-activated channelrhodopsin Chrimson. Nature Communications, 2018, 9, 3949.	5.8	112
3	BiPOLES is an optogenetic tool developed for bidirectional dual-color control of neurons. Nature Communications, 2021, 12, 4527.	5.8	73
4	Unifying photocycle model for light adaptation and temporal evolution of cation conductance in channelrhodopsin-2. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9380-9389.	3.3	66
5	MerMAIDs: a family of metagenomically discovered marine anion-conducting and intensely desensitizing channelrhodopsins. Nature Communications, 2019, 10, 3315.	5.8	56
6	Time-resolved serial femtosecond crystallography reveals early structural changes in channelrhodopsin. ELife, 2021, 10, .	2.8	41
7	Molecular determinants of proton selectivity and gating in the red-light activated channelrhodopsin Chrimson. Scientific Reports, 2017, 7, 9928.	1.6	37
8	Optogenetic approaches addressing extracellular modulation of neural excitability. Scientific Reports, 2016, 6, 23947.	1.6	34
9	Design of a light-gated proton channel based on the crystal structure of Coccomyxa rhodopsin. Science Signaling, 2019, 12, .	1.6	24
10	Rhodopsin-bestrophin fusion proteins from unicellular algae form gigantic pentameric ion channels. Nature Structural and Molecular Biology, 2022, 29, 592-603.	3.6	23
11	Whole-cell Patch-clamp Recordings for Electrophysiological Determination of Ion Selectivity in Channelrhodopsins. Journal of Visualized Experiments, 2017, , .	0.2	18
12	Tracking Pore Hydration in Channelrhodopsin by Site-Directed Infrared-Active Azido Probes. Biochemistry, 2019, 58, 1275-1286.	1.2	8
13	Tailoring Organic LEDs for Bidirectional Optogenetic Control via Dualâ€Color Switching. Advanced Functional Materials, 2022, 32, 2110590.	7.8	8