

Matthias Prigge

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

4,819
citations

567144

15
h-index

996849

15
g-index

16
all docs

16
docs citations

16
times ranked

7337
citing authors

#	ARTICLE	IF	CITATIONS
1	Neocortical excitation/inhibition balance in information processing and social dysfunction. <i>Nature</i> , 2011, 477, 171-178.	13.7	2,036
2	Genetically encoded calcium indicators for multi-color neural activity imaging and combination with optogenetics. <i>Frontiers in Molecular Neuroscience</i> , 2013, 6, 2.	1.4	629
3	Red-shifted optogenetic excitation: a tool for fast neural control derived from <i>Volvox carteri</i> . <i>Nature Neuroscience</i> , 2008, 11, 631-633.	7.1	490
4	The Microbial Opsin Family of Optogenetic Tools. <i>Cell</i> , 2011, 147, 1446-1457.	13.5	471
5	Biophysical constraints of optogenetic inhibition at presynaptic terminals. <i>Nature Neuroscience</i> , 2016, 19, 554-556.	7.1	317
6	Silencing Neurons: Tools, Applications, and Experimental Constraints. <i>Neuron</i> , 2017, 95, 504-529.	3.8	263
7	Color-tuned Channelrhodopsins for Multiwavelength Optogenetics. <i>Journal of Biological Chemistry</i> , 2012, 287, 31804-31812.	1.6	147
8	Manipulating fear associations via optogenetic modulation of amygdala inputs to prefrontal cortex. <i>Nature Neuroscience</i> , 2017, 20, 836-844.	7.1	146
9	Optogenetic Brain Interfaces. <i>IEEE Reviews in Biomedical Engineering</i> , 2014, 7, 3-30.	13.1	76
10	Two Open States with Progressive Proton Selectivities in the Branched Channelrhodopsin-2 Photocycle. <i>Biophysical Journal</i> , 2010, 98, 753-761.	0.2	61
11	Bimodal Activation of Different Neuron Classes with the Spectrally Red-Shifted Channelrhodopsin Chimera C1V1 in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2012, 7, e46827.	1.1	55
12	Optogenetic control of mitochondrial metabolism and Ca ²⁺ signaling by mitochondria-targeted opsins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5167-E5176.	3.3	52
13	Enhancing Channelrhodopsins: An Overview. <i>Methods in Molecular Biology</i> , 2016, 1408, 141-165.	0.4	32
14	Functional characterization of sodium-pumping rhodopsins with different pumping properties. <i>PLoS ONE</i> , 2017, 12, e0179232.	1.1	26
15	Fast, repetitive light-activation of Ca _v 3.2 using Channelrhodopsin 2. <i>Channels</i> , 2010, 4, 241-247.	1.5	18
16	Multicolor optogenetics. <i>Neuroscience Research</i> , 2011, 71, e313.	1.0	0