

Boris V Zemelman

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

7,075
citations

186265

28
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345221

36
g-index

46
all docs

46
docs citations

46
times ranked

7741
citing authors

#	ARTICLE	IF	CITATIONS
1	Local feedback inhibition tightly controls rapid formation of hippocampal place fields. <i>Neuron</i> , 2022, 110, 783-794.e6.	8.1	36
2	Granule Cells Constitute One of the Major Neuronal Subtypes in the Molecular Layer of the Posterior Cerebellum. <i>ENeuro</i> , 2022, 9, ENEURO.0289-21.2022.	1.9	0
3	Excitatory cholecystinin neurons of the midbrain integrate diverse temporal responses and drive auditory thalamic subdomains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	17
4	Targeting Subsets of Mammalian Neurons. <i>Neuroscience Insights</i> , 2020, 15, 263310552090853.	1.6	0
5	Fragile X Mental Retardation Protein Bidirectionally Controls Dendritic I_{Kd} in a Cell Type-Specific Manner between Mouse Hippocampus and Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2020, 40, 5327-5340.	3.6	26
6	Ultrastructure of light-activated axons following optogenetic stimulation to produce late-phase long-term potentiation. <i>PLoS ONE</i> , 2020, 15, e0226797.	2.5	4
7	SARKS: <i>de novo</i> discovery of gene expression regulatory motif sites and domains by suffix array kernel smoothing. <i>Bioinformatics</i> , 2019, 35, 3944-3952.	4.1	2
8	Functional Access to Neuron Subclasses in Rodent and Primate Forebrain. <i>Cell Reports</i> , 2019, 26, 2818-2832.e8.	6.4	60
9	Inhibitory Control of Prefrontal Cortex by the Claustrum. <i>Neuron</i> , 2018, 99, 1029-1039.e4.	8.1	121
10	A Highly Sensitive A-Kinase Activity Reporter for Imaging Neuromodulatory Events in Awake Mice. <i>Neuron</i> , 2018, 99, 665-679.e5.	8.1	67
11	Dentate Gyrus Contributes to Retrieval as well as Encoding: Evidence from Context Fear Conditioning, Recall, and Extinction. <i>Journal of Neuroscience</i> , 2017, 37, 6359-6371.	3.6	121
12	Prefrontal Cortex Dysfunction in Fragile X Mice Depends on the Continued Absence of Fragile X Mental Retardation Protein in the Adult Brain. <i>Journal of Neuroscience</i> , 2017, 37, 7305-7317.	3.6	20
13	In vivo multiphoton imaging of a diverse array of fluorophores to investigate deep neurovascular structure. <i>Biomedical Optics Express</i> , 2017, 8, 3470.	2.9	37
14	FMRP regulates an ethanol-dependent shift in GABABR function and expression with rapid antidepressant properties. <i>Nature Communications</i> , 2016, 7, 12867.	12.8	48
15	Gating of hippocampal activity, plasticity, and memory by entorhinal cortex long-range inhibition. <i>Science</i> , 2016, 351, aaa5694.	12.6	220
16	Analysis of Proteins That Rapidly Change Upon Mechanistic/Mammalian Target of Rapamycin Complex 1 (mTORC1) Repression Identifies Parkinson Protein 7 (PARK7) as a Novel Protein Aberrantly Expressed in Tuberous Sclerosis Complex (TSC). <i>Molecular and Cellular Proteomics</i> , 2016, 15, 412-430.	3.8	31
17	Calcium imaging with genetically encoded indicators in behaving primates. <i>ELife</i> , 2016, 5, .	6.0	49
18	Local Integration Accounts for Weak Selectivity of Mouse Neocortical Parvalbumin Interneurons. <i>Neuron</i> , 2015, 87, 424-436.	8.1	84

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19	Temporal Dynamics of L5 Dendrites in Medial Prefrontal Cortex Regulate Integration Versus Coincidence Detection of Afferent Inputs. <i>Journal of Neuroscience</i> , 2015, 35, 4501-4514.	3.6	56
20	Inhibitory Gating of Input Comparison in the CA1 Microcircuit. <i>Neuron</i> , 2015, 87, 1274-1289.	8.1	96
21	Trace Eyeblink Conditioning in Mice Is Dependent upon the Dorsal Medial Prefrontal Cortex, Cerebellum, and Amygdala: Behavioral Characterization and Functional Circuitry. <i>ENeuro</i> , 2015, 2, ENEURO.0051-14.2015.	1.9	50
22	Live Imaging of Endogenous PSD-95 Using ENABLED: A Conditional Strategy to Fluorescently Label Endogenous Proteins. <i>Journal of Neuroscience</i> , 2014, 34, 16698-16712.	3.6	74
23	Dendritic Inhibition in the Hippocampus Supports Fear Learning. <i>Science</i> , 2014, 343, 857-863.	12.6	420
24	Two-photon sensitive photolabile protecting groups: From molecular engineering to nanostructuration. , 2014, , .		0
25	Regulation of neuronal input transformations by tunable dendritic inhibition. <i>Nature Neuroscience</i> , 2012, 15, 423-430.	14.8	357
26	Control of timing, rate and bursts of hippocampal place cells by dendritic and somatic inhibition. <i>Nature Neuroscience</i> , 2012, 15, 769-775.	14.8	566
27	The columnar and laminar organization of inhibitory connections to neocortical excitatory cells. <i>Nature Neuroscience</i> , 2011, 14, 100-107.	14.8	223
28	Imaging Light Responses of Targeted Neuron Populations in the Rodent Retina. <i>Journal of Neuroscience</i> , 2011, 31, 2855-2867.	3.6	80
29	Network mechanisms of theta related neuronal activity in hippocampal CA1 pyramidal neurons. <i>Nature Neuroscience</i> , 2010, 13, 967-972.	14.8	95
30	Multi-array silicon probes with integrated optical fibers: light-assisted perturbation and recording of local neural circuits in the behaving animal. <i>European Journal of Neuroscience</i> , 2010, 31, 2279-2291.	2.6	222
31	Two-photon single-cell optogenetic control of neuronal activity by sculpted light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11981-11986.	7.1	189
32	Fast Synaptic Subcortical Control of Hippocampal Circuits. <i>Science</i> , 2009, 326, 449-453.	12.6	217
33	Photochemical gating of heterologous ion channels: Remote control over genetically designated populations of neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1352-1357.	7.1	221
34	Selective Photostimulation of Genetically ChARGed Neurons. <i>Neuron</i> , 2002, 33, 15-22.	8.1	423
35	Transmission of Olfactory Information between Three Populations of Neurons in the Antennal Lobe of the Fly. <i>Neuron</i> , 2002, 36, 463-474.	8.1	422
36	Endonuclease G, a Candidate Human Enzyme for the Initiation of Genomic Inversion in Herpes Simplex Type 1 Virus. <i>Journal of Biological Chemistry</i> , 2002, 277, 21071-21079.	3.4	31

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37	Genetic schemes and schemata in neurophysiology. <i>Current Opinion in Neurobiology</i> , 2001, 11, 409-414.	4.2	27
38	SNAREpins: Minimal Machinery for Membrane Fusion. <i>Cell</i> , 1998, 92, 759-772.	28.9	2,289
39	Gos1p, a <i>Saccharomyces cerevisiae</i> SNARE protein involved in Golgi transport. <i>FEBS Letters</i> , 1998, 435, 89-95.	2.8	60
40	Uncovering Key Neurons for Manipulation in Mammals. , 0, , 18-36.		0
41	Local Feedback Inhibition Tightly Controls Rapid Formation of Hippocampal Place Fields. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3