Boris V Zemelman

List of Publications by Year in descending order

41 papers	7,075 citations	186265 28 h-index	345221 36 g-index
46 all docs	46 docs citations	46 times ranked	7741 citing authors

#	Article	IF	Citations
1	SNAREpins: Minimal Machinery for Membrane Fusion. Cell, 1998, 92, 759-772.	28.9	2,289
2	Control of timing, rate and bursts of hippocampal place cells by dendritic and somatic inhibition. Nature Neuroscience, 2012, 15, 769-775.	14.8	566
3	Selective Photostimulation of Genetically ChARGed Neurons. Neuron, 2002, 33, 15-22.	8.1	423
4	Transmission of Olfactory Information between Three Populations of Neurons in the Antennal Lobe of the Fly. Neuron, 2002, 36, 463-474.	8.1	422
5	Dendritic Inhibition in the Hippocampus Supports Fear Learning. Science, 2014, 343, 857-863.	12.6	420
6	Regulation of neuronal input transformations by tunable dendritic inhibition. Nature Neuroscience, 2012, 15, 423-430.	14.8	357
7	The columnar and laminar organization of inhibitory connections to neocortical excitatory cells. Nature Neuroscience, 2011, 14, 100-107.	14.8	223
8	Multiâ€array silicon probes with integrated optical fibers: lightâ€assisted perturbation and recording of local neural circuits in the behaving animal. European Journal of Neuroscience, 2010, 31, 2279-2291.	2.6	222
9	Photochemical gating of heterologous ion channels: Remote control over genetically designated populations of neurons. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1352-1357.	7.1	221
10	Gating of hippocampal activity, plasticity, and memory by entorhinal cortex long-range inhibition. Science, 2016, 351, aaa5694.	12.6	220
11	Fast Synaptic Subcortical Control of Hippocampal Circuits. Science, 2009, 326, 449-453.	12.6	217
12	Two-photon single-cell optogenetic control of neuronal activity by sculpted light. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11981-11986.	7.1	189
13	Dentate Gyrus Contributes to Retrieval as well as Encoding: Evidence from Context Fear Conditioning, Recall, and Extinction. Journal of Neuroscience, 2017, 37, 6359-6371.	3.6	121
14	Inhibitory Control of Prefrontal Cortex by the Claustrum. Neuron, 2018, 99, 1029-1039.e4.	8.1	121
15	Inhibitory Gating of Input Comparison in the CA1 Microcircuit. Neuron, 2015, 87, 1274-1289.	8.1	96
16	Network mechanisms of theta related neuronal activity in hippocampal CA1 pyramidal neurons. Nature Neuroscience, 2010, 13, 967-972.	14.8	95
17	Local Integration Accounts for Weak Selectivity of Mouse Neocortical Parvalbumin Interneurons. Neuron, 2015, 87, 424-436.	8.1	84
18	Imaging Light Responses of Targeted Neuron Populations in the Rodent Retina. Journal of Neuroscience, 2011, 31, 2855-2867.	3.6	80

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19	Live Imaging of Endogenous PSD-95 Using ENABLED: A Conditional Strategy to Fluorescently Label Endogenous Proteins. Journal of Neuroscience, 2014, 34, 16698-16712.	3.6	74
20	A Highly Sensitive A-Kinase Activity Reporter for Imaging Neuromodulatory Events in Awake Mice. Neuron, 2018, 99, 665-679.e5.	8.1	67
21	Gos1p, aSaccharomyces cerevisiaeSNARE protein involved in Golgi transport. FEBS Letters, 1998, 435, 89-95.	2.8	60
22	Functional Access to Neuron Subclasses in Rodent and Primate Forebrain. Cell Reports, 2019, 26, 2818-2832.e8.	6.4	60
23	Temporal Dynamics of L5 Dendrites in Medial Prefrontal Cortex Regulate Integration Versus Coincidence Detection of Afferent Inputs. Journal of Neuroscience, 2015, 35, 4501-4514.	3.6	56
24	Trace Eyeblink Conditioning in Mice Is Dependent upon the Dorsal Medial Prefrontal Cortex, Cerebellum, and Amygdala: Behavioral Characterization and Functional Circuitry. ENeuro, 2015, 2, ENEURO.0051-14.2015.	1.9	50
25	Calcium imaging with genetically encoded indicators in behaving primates. ELife, 2016, 5, .	6.0	49
26	FMRP regulates an ethanol-dependent shift in GABABR function and expression with rapid antidepressant properties. Nature Communications, 2016, 7, 12867.	12.8	48
27	In vivo multiphoton imaging of a diverse array of fluorophores to investigate deep neurovascular structure. Biomedical Optics Express, 2017, 8, 3470.	2.9	37
28	Local feedback inhibition tightly controls rapid formation of hippocampal place fields. Neuron, 2022, 110, 783-794.e6.	8.1	36
29	Endonuclease G, a Candidate Human Enzyme for the Initiation of Genomic Inversion in Herpes Simplex Type 1 Virus. Journal of Biological Chemistry, 2002, 277, 21071-21079.	3.4	31
30	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). Molecular and Cellular Proteomics, 2016, 15, 412-430.	3.8	31
31	Genetic schemes and schemata in neurophysiology. Current Opinion in Neurobiology, 2001, 11, 409-414.	4.2	27
32	Fragile X Mental Retardation Protein Bidirectionally Controls Dendritic I_h in a Cell Type-Specific Manner between Mouse Hippocampus and Prefrontal Cortex. Journal of Neuroscience, 2020, 40, 5327-5340.	3.6	26
33	Prefrontal Cortex Dysfunction in Fragile X Mice Depends on the Continued Absence of Fragile X Mental Retardation Protein in the Adult Brain. Journal of Neuroscience, 2017, 37, 7305-7317.	3.6	20
34	Excitatory cholecystokinin neurons of the midbrain integrate diverse temporal responses and drive auditory thalamic subdomains. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
35	Ultrastructure of light-activated axons following optogenetic stimulation to produce late-phase long-term potentiation. PLoS ONE, 2020, 15, e0226797.	2.5	4
36	Local Feedback Inhibition Tightly Controls Rapid Formation of HippocampalÂPlace Fields. SSRN Electronic Journal, 0, , .	0.4	3

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37	SArKS: de novo discovery of gene expression regulatory motif sites and domains by suffix array kernel smoothing. Bioinformatics, 2019, 35, 3944-3952.	4.1	2
38	Uncovering Key Neurons for Manipulation in Mammals. , 0, , 18-36.		0
39	Targeting Subsets of Mammalian Neurons. Neuroscience Insights, 2020, 15, 263310552090853.	1.6	0
40	Two-photon sensitive photolabile protecting groups: From molecular engineering to nanostructuration. , 2014, , .		0
41	Granule Cells Constitute One of the Major Neuronal Subtypes in the Molecular Layer of the Posterior Cerebellum. ENeuro, 2022, 9, ENEURO.0289-21.2022.	1.9	0