BalÃ¡zs Hangya

List of Publications by Year
in descending order

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38 papers	3,606 citations	304368 22 h-index	377514 34 g-index
49 all docs	49 docs citations	49 times ranked	4714 citing authors

#	Article	IF	Citations
1	Microglia modulate blood flow, neurovascular coupling, and hypoperfusion via purinergic actions. Journal of Experimental Medicine, 2022, 219, .	4.2	94
2	Navigating the Statistical Minefield of Model Selection and Clustering in Neuroscience. ENeuro, 2022, 9, ENEURO.0066-22.2022.	0.9	1
3	Differential recruitment of ventral pallidal e-types by behaviorally salient stimuli during Pavlovian conditioning. IScience, 2021, 24, 102377.	1.9	6
4	Two-photon GCaMP6f imaging of infrared neural stimulation evoked calcium signals in mouse cortical neurons in vivo. Scientific Reports, 2021, 11, 9775.	1.6	19
5	Training protocol for probabilistic Pavlovian conditioning in mice using an open-source head-fixed setup. STAR Protocols, 2021, 2, 100795.	0.5	3
6	In vivo localization of chronically implanted electrodes and optic fibers in mice. Nature Communications, 2020, 11, 4686.	5.8	15
7	Efficient training of mice on the 5-choice serial reaction time task in an automated rodent training system. Scientific Reports, 2020, 10, 22362.	1.6	11
8	Distinct synchronization, cortical coupling and behavioral function of two basal forebrain cholinergic neuron types. Nature Neuroscience, 2020, 23, 992-1003.	7.1	58
9	OPETH: Open Source Solution for Real-Time Peri-Event Time Histogram Based on Open Ephys. Frontiers in Neuroinformatics, 2020, 14, 21.	1.3	7
10	Cartographers of the Cognitive Map: Locus Coeruleus Is Part of the Guild. Neuron, 2020, 105, 951-953.	3.8	3
11	Guardians of the learning gate. Nature Neuroscience, 2019, 22, 1747-1748.	7.1	0
12	Dual-transmitter systems regulating arousal, attention, learning and memory. Neuroscience and Biobehavioral Reviews, 2018, 85, 21-33.	2.9	55
13	Open Source Tools for Temporally Controlled Rodent Behavior Suitable for Electrophysiology and Optogenetic Manipulations. Frontiers in Systems Neuroscience, 2018, 12, 18.	1.2	30
14	Cholinergic modulation of spatial learning, memory and navigation. European Journal of Neuroscience, 2018, 48, 2199-2230.	1.2	89
15	Monitoring the Right Collection: The Central Cholinergic Neurons as an Instructive Example. Frontiers in Neural Circuits, 2017, 11, 31.	1.4	14
16	A Mathematical Framework for Statistical Decision Confidence. Neural Computation, 2016, 28, 1840-1858.	1.3	84
17	Signatures of a Statistical Computation in the Human Sense of Confidence. Neuron, 2016, 90, 499-506.	3.8	212
18	A subcortical inhibitory signal for behavioral arrest in the thalamus. Nature Neuroscience, 2015, 18, 562-568.	7.1	68

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19	Vision: How to Train Visual Cortex to Predict Reward Time. Current Biology, 2015, 25, R490-R492.	1.8	7
20	Central Cholinergic Neurons Are Rapidly Recruited by Reinforcement Feedback. Cell, 2015, 162, 1155-1168.	13.5	352
21	Phasic, Nonsynaptic GABA-A Receptor-Mediated Inhibition Entrains Thalamocortical Oscillations. Journal of Neuroscience, 2014, 34, 7137-7147.	1.7	46
22	Convergence of Cortical and Sensory Driver Inputs on Single Thalamocortical Cells. Cerebral Cortex, 2014, 24, 3167-3179.	1.6	147
23	Independence of landmark and self-motion-guided navigation: a different role for grid cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130370.	1.8	30
24	From circuit motifs to computations: mapping the behavioral repertoire of cortical interneurons. Current Opinion in Neurobiology, 2014, 26, 117-124.	2.0	81
25	Cortical interneurons that specialize in disinhibitory control. Nature, 2013, 503, 521-524.	13.7	936
26	Multiple Modes of Phase Locking between Sniffing and Whisking during Active Exploration. Journal of Neuroscience, 2013, 33, 8250-8256.	1.7	78
27	Repetitive Convulsant-Induced Seizures Reduce the Number But Not Precision of Hippocampal Place Cells. Journal of Neuroscience, 2012, 32, 4163-4178.	1.7	6
28	Complex Propagation Patterns Characterize Human Cortical Activity during Slow-Wave Sleep. Journal of Neuroscience, 2011, 31, 8770-8779.	1.7	38
29	Theta Phase Classification of Interneurons in the Hippocampal Formation of Freely Moving Rats. Journal of Neuroscience, 2011, 31, 2938-2947.	1.7	44
30	Phase Advancement and Nucleus-Specific Timing of Thalamocortical Activity during Slow Cortical Oscillation. Journal of Neuroscience, 2011, 31, 607-617.	1.7	55
31	Complementary spatial firing in place cell-interneuron pairs. Journal of Physiology, 2010, 588, 4165-4175.	1.3	35
32	Phase Entrainment of Human Delta Oscillations Can Mediate the Effects of Expectation on Reaction Speed. Journal of Neuroscience, 2010, 30, 13578-13585.	1.7	364
33	GABAergic Neurons of the Medial Septum Lead the Hippocampal Network during Theta Activity. Journal of Neuroscience, 2009, 29, 8094-8102.	1.7	262
34	Fast Synaptic Subcortical Control of Hippocampal Circuits. Science, 2009, 326, 449-453.	6.0	217
35	The presence of pacemaker HCN channels identifies theta rhythmic GABAergic neurons in the medial septum. Journal of Physiology, 2008, 586, 3893-3915.	1.3	103
36	Increased antigen presentation and Th1 polarization in genetically histamine-free mice. International Immunology, 2006, 19, 51-58.	1.8	15

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37	Huygens Synchronization of Medial Septal Pacemaker Neurons Generates Hippocampal Theta Oscillation. SSRN Electronic Journal, 0, , .	0.4	1
38	Differential Recruitment of Ventral Pallidal E-Types by Behaviorally Salient Stimuli During Pavlovian Conditioning. SSRN Electronic Journal, 0, , .	0.4	0