

Howard J Gritton

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,819
citations

361413

20
h-index

434195

31
g-index

42
all docs

42
docs citations

42
times ranked

2654
citing authors

#	ARTICLE	IF	CITATIONS
1	Dopamine depletion selectively disrupts interactions between striatal neuron subtypes and LFP oscillations. <i>Cell Reports</i> , 2022, 38, 110265.	6.4	12
2	Fast, multiplane line-scan confocal microscopy using axially distributed slits. <i>Biomedical Optics Express</i> , 2021, 12, 1339.	2.9	18
3	Distinct neuronal populations contribute to trace conditioning and extinction learning in the hippocampal CA1. <i>ELife</i> , 2021, 10, .	6.0	13
4	Theta-gamma coupling emerges from spatially heterogeneous cholinergic neuromodulation. <i>PLoS Computational Biology</i> , 2021, 17, e1009235.	3.2	14
5	Region-specific effects of ultrasound on individual neurons in the awake mammalian brain. <i>IScience</i> , 2021, 24, 102955.	4.1	4
6	Large-scale voltage imaging in behaving mice using targeted illumination. <i>IScience</i> , 2021, 24, 103263.	4.1	21
7	Precision Calcium Imaging of Dense Neural Populations via a Cell-Body-Targeted Calcium Indicator. <i>Neuron</i> , 2020, 107, 470-486.e11.	8.1	87
8	A Viral Toolbox of Genetically Encoded Fluorescent Synaptic Tags. <i>IScience</i> , 2020, 23, 101330.	4.1	14
9	High-contrast multifocus microscopy with a single camera and z-splitter prism. <i>Optica</i> , 2020, 7, 1477.	9.3	39
10	A Teensy microcontroller-based interface for optical imaging camera control during behavioral experiments. <i>Journal of Neuroscience Methods</i> , 2019, 320, 107-115.	2.5	5
11	Unique contributions of parvalbumin and cholinergic interneurons in organizing striatal networks during movement. <i>Nature Neuroscience</i> , 2019, 22, 586-597.	14.8	94
12	Population imaging of neural activity in awake behaving mice. <i>Nature</i> , 2019, 574, 413-417.	27.8	190
13	Muscarinic receptors regulate auditory and prefrontal cortical communication during auditory processing. <i>Neuropharmacology</i> , 2019, 144, 155-171.	4.1	10
14	Video-rate large-scale imaging with Multi-Z confocal microscopy. <i>Optica</i> , 2019, 6, 389.	9.3	40
15	Automatic Cell Segmentation by Adaptive Thresholding (ACSAT) for Large-Scale Calcium Imaging Datasets. <i>ENeuro</i> , 2018, 5, ENEURO.0056-18.2018.	1.9	21
16	Video-rate volumetric neuronal imaging using 3D targeted illumination. <i>Scientific Reports</i> , 2018, 8, 7921.	3.3	20
17	A MicroRNA-Based Gene-Targeting Tool for Virally Labeling Interneurons in the Rodent Cortex. <i>Cell Reports</i> , 2018, 24, 294-303.	6.4	32
18	Acetylcholine Release in Prefrontal Cortex Promotes Gamma Oscillations and Theta-Gamma Coupling during Cue Detection. <i>Journal of Neuroscience</i> , 2017, 37, 3215-3230.	3.6	114

#	ARTICLE	IF	CITATIONS
19	Crucial Roles for SIRT2 and AMPA Receptor Acetylation in Synaptic Plasticity and Memory. <i>Cell Reports</i> , 2017, 20, 1335-1347.	6.4	51
20	Young adult born neurons enhance hippocampal dependent performance via influences on bilateral networks. <i>ELife</i> , 2016, 5, .	6.0	40
21	An integrative approach for analyzing hundreds of neurons in task performing mice using wide-field calcium imaging. <i>Scientific Reports</i> , 2016, 6, 20986.	3.3	39
22	Cortical cholinergic signaling controls the detection of cues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1089-97.	7.1	162
23	What do phasic cholinergic signals do?. <i>Neurobiology of Learning and Memory</i> , 2016, 130, 135-141.	1.9	54
24	Deterministic functions of cortical acetylcholine. <i>European Journal of Neuroscience</i> , 2014, 39, 1912-1920.	2.6	96
25	Beyond the Connectome: The Dynome. <i>Neuron</i> , 2014, 83, 1319-1328.	8.1	315
26	A systemically-available kynurenine aminotransferase II (KAT II) inhibitor restores nicotine-evoked glutamatergic activity in the cortex of rats. <i>Neuropharmacology</i> , 2014, 82, 41-48.	4.1	44
27	Cognitive Performance as a Zeitgeber: Cognitive Oscillators and Cholinergic Modulation of the SCN Entrain Circadian Rhythms. <i>PLoS ONE</i> , 2013, 8, e56206.	2.5	35
28	Antidepressant Suppression of Non-REM Sleep Spindles and REM Sleep Impairs Hippocampus-Dependent Learning While Augmenting Striatum-Dependent Learning. <i>Journal of Neuroscience</i> , 2012, 32, 13411-13420.	3.6	59
29	Bidirectional interactions between circadian entrainment and cognitive performance. <i>Learning and Memory</i> , 2012, 19, 126-141.	1.3	70
30	Interactions between cognition and circadian rhythms: Attentional demands modify circadian entrainment.. <i>Behavioral Neuroscience</i> , 2009, 123, 937-948.	1.2	36
31	Species-typical songs in white-crowned sparrows tutored with only phrase pairs. <i>Nature</i> , 2004, 432, 753-758.	27.8	49