

# Howard J Gritton

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8710063/publications.pdf>

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  | Beyond the Connectome: The Dynome. <i>Neuron</i> , 2014, 83, 1319-1328.   | 8.1  | 315       |
| 2  | Population imaging of neural activity in awake behaving mice. <i>Nature</i> , 2019, 574, 413-417.   | 27.8 | 190       |
| 3  | 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       |
| 4  | 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       |
| 5  | Deterministic functions of cortical acetylcholine. <i>European Journal of Neuroscience</i> , 2014, 39, 1912-1920.   | 2.6  | 96        |
| 6  | Unique contributions of parvalbumin and cholinergic interneurons in organizing striatal networks during movement. <i>Nature Neuroscience</i> , 2019, 22, 586-597.   | 14.8 | 94        |
| 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  | Bidirectional interactions between circadian entrainment and cognitive performance. <i>Learning and Memory</i> , 2012, 19, 126-141.   | 1.3  | 70        |
| 9  | 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        |
| 10 | What do phasic cholinergic signals do?. <i>Neurobiology of Learning and Memory</i> , 2016, 130, 135-141.  | 1.9  | 54        |
| 11 | Crucial Roles for SIRT2 and AMPA Receptor Acetylation in Synaptic Plasticity and Memory. <i>Cell Reports</i> , 2017, 20, 1335-1347.   | 6.4  | 51        |
| 12 | Species-typical songs in white-crowned sparrows tutored with only phrase pairs. <i>Nature</i> , 2004, 432, 753-758.   | 27.8 | 49        |
| 13 | 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        |
| 14 | Young adult born neurons enhance hippocampal dependent performance via influences on bilateral networks. <i>ELife</i> , 2016, 5, .  | 6.0  | 40        |
| 15 | Video-rate large-scale imaging with Multi-Z confocal microscopy. <i>Optica</i> , 2019, 6, 389.  | 9.3  | 40        |
| 16 | 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        |
| 17 | High-contrast multifocus microscopy with a single camera and z-splitter prism. <i>Optica</i> , 2020, 7, 1477.   | 9.3  | 39        |
| 18 | Interactions between cognition and circadian rhythms: Attentional demands modify circadian entrainment.. <i>Behavioral Neuroscience</i> , 2009, 123, 937-948.   | 1.2  | 36        |

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|----|---|-----|-----------|
| 19 | Cognitive Performance as a Zeitgeber: Cognitive Oscillators and Cholinergic Modulation of the SCN Entrain Circadian Rhythms. PLoS ONE, 2013, 8, e56206.         | 2.5 | 35        |
| 20 | A MicroRNA-Based Gene-Targeting Tool for Virally Labeling Interneurons in the Rodent Cortex. Cell Reports, 2018, 24, 294-303.                                   | 6.4 | 32        |
| 21 | Automatic Cell Segmentation by Adaptive Thresholding (ACSAT) for Large-Scale Calcium Imaging Datasets. ENeuro, 2018, 5, ENEURO.0056-18.2018.                    | 1.9 | 21        |
| 22 | Large-scale voltage imaging in behaving mice using targeted illumination. IScience, 2021, 24, 103263.   | 4.1 | 21        |
| 23 | Video-rate volumetric neuronal imaging using 3D targeted illumination. Scientific Reports, 2018, 8, 7921.   | 3.3 | 20        |
| 24 | Fast, multiplane line-scan confocal microscopy using axially distributed slits. Biomedical Optics Express, 2021, 12, 1339.                                      | 2.9 | 18        |
| 25 | A Viral Toolbox of Genetically Encoded Fluorescent Synaptic Tags. IScience, 2020, 23, 101330.   | 4.1 | 14        |
| 26 | Theta-gamma coupling emerges from spatially heterogeneous cholinergic neuromodulation. PLoS Computational Biology, 2021, 17, e1009235.                          | 3.2 | 14        |
| 27 | Distinct neuronal populations contribute to trace conditioning and extinction learning in the hippocampal CA1. ELife, 2021, 10, .                               | 6.0 | 13        |
| 28 | Dopamine depletion selectively disrupts interactions between striatal neuron subtypes and LFP oscillations. Cell Reports, 2022, 38, 110265.                     | 6.4 | 12        |
| 29 | Muscarinic receptors regulate auditory and prefrontal cortical communication during auditory processing. Neuropharmacology, 2019, 144, 155-171.                 | 4.1 | 10        |
| 30 | A Teensy microcontroller-based interface for optical imaging camera control during behavioral experiments. Journal of Neuroscience Methods, 2019, 320, 107-115. | 2.5 | 5         |
| 31 | Region-specific effects of ultrasound on individual neurons in the awake mammalian brain. IScience, 2021, 24, 102955.   | 4.1 | 4         |