

# Xue Han

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

5,868  
citations

218381  
26  
h-index

161609  
54  
g-index

67  
all docs

67  
docs citations

67  
times ranked

7954  
citing authors

#	ARTICLE	IF	CITATIONS
1	A toolbox of Cre-dependent optogenetic transgenic mice for light-induced activation and silencing. <i>Nature Neuroscience</i> , 2012, 15, 793-802.	7.1	1,153
2	High-performance genetically targetable optical neural silencing by light-driven proton pumps. <i>Nature</i> , 2010, 463, 98-102.	13.7	1,075
3	Multiple-Color Optical Activation, Silencing, and Desynchronization of Neural Activity, with Single-Spike Temporal Resolution. <i>PLoS ONE</i> , 2007, 2, e299.	1.1	547
4	Noninvasive optical inhibition with a red-shifted microbial rhodopsin. <i>Nature Neuroscience</i> , 2014, 17, 1123-1129.	7.1	480
5	Millisecond-Timescale Optical Control of Neural Dynamics in the Nonhuman Primate Brain. <i>Neuron</i> , 2009, 62, 191-198.	3.8	460
6	A High-Light Sensitivity Optical Neural Silencer: Development and Application to Optogenetic Control of Non-Human Primate Cortex. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 18.	1.2	421
7	Population imaging of neural activity in awake behaving mice. <i>Nature</i> , 2019, 574, 413-417.	13.7	190
8	Unique contributions of parvalbumin and cholinergic interneurons in organizing striatal networks during movement. <i>Nature Neuroscience</i> , 2019, 22, 586-597.	7.1	94
9	Quantifying Human Experience in Architectural Spaces with Integrated Virtual Reality and Body Sensor Networks. <i>Journal of Computing in Civil Engineering</i> , 2019, 33, .	2.5	91
10	Light-Triggered Release of Bioactive Molecules from DNA Nanostructures. <i>Nano Letters</i> , 2016, 16, 2781-2785.	4.5	87
11	Precision Calcium Imaging of Dense Neural Populations via a Cell-Body-Targeted Calcium Indicator. <i>Neuron</i> , 2020, 107, 470-486.e11.	3.8	87
12	In Vivo Application of Optogenetics for Neural Circuit Analysis. <i>ACS Chemical Neuroscience</i> , 2012, 3, 577-584.	1.7	83
13	Striatal cholinergic interneurons generate beta and gamma oscillations in the corticostriatal circuit and produce motor deficits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3159-68.	3.3	69
14	Optogenetics in the nonhuman primate. <i>Progress in Brain Research</i> , 2012, 196, 215-233.	0.9	58
15	Prosthetic systems for therapeutic optical activation and silencing of genetically targeted neurons. <i>Proceedings of SPIE</i> , 2008, 6854, 68540H.	0.8	57
16	Crucial Roles for SIRT2 and AMPA Receptor Acetylation in Synaptic Plasticity and Memory. <i>Cell Reports</i> , 2017, 20, 1335-1347.	2.9	51
17	Optoacoustic brain stimulation at submillimeter spatial precision. <i>Nature Communications</i> , 2020, 11, 881.	5.8	47
18	Light sensitization of DNA nanostructures via incorporation of photo-cleavable spacers. <i>Chemical Communications</i> , 2015, 51, 5747-5750.	2.2	46

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19	Transient optogenetic inactivation of the medial entorhinal cortex biases the active population of hippocampal neurons. <i>Hippocampus</i> , 2016, 26, 246-260.	0.9	45
20	Exosome swarms eliminate airway pathogens and provide passive epithelial immunoprotection through nitric oxide. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 1525-1535.e1.	1.5	42
21	Young adult born neurons enhance hippocampal dependent performance via influences on bilateral networks. <i>ELife</i> , 2016, 5, .	2.8	40
22	Multi-neuron intracellular recording in vivo via interacting autpatching robots. <i>ELife</i> , 2018, 7, .	2.8	40
23	Video-rate large-scale imaging with Multi-Z confocal microscopy. <i>Optica</i> , 2019, 6, 389.	4.8	40
24	An integrative approach for analyzing hundreds of neurons in task performing mice using wide-field calcium imaging. <i>Scientific Reports</i> , 2016, 6, 20986.	1.6	39
25	High-contrast multifocus microscopy with a single camera and z-splitter prism. <i>Optica</i> , 2020, 7, 1477.	4.8	39
26	Dynamic sensitivity of area V4 neurons during saccade preparation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13046-13051.	3.3	35
27	Exosomes mediate interepithelial transfer of functional P-glycoprotein in chronic rhinosinusitis with nasal polyps. <i>Laryngoscope</i> , 2017, 127, E295-E300.	1.1	35
28	A MicroRNA-Based Gene-Targeting Tool for Virally Labeling Interneurons in the Rodent Cortex. <i>Cell Reports</i> , 2018, 24, 294-303.	2.9	32
29	Optogenetic Activation of Accessory Olfactory Bulb Input to the Forebrain Differentially Modulates Investigation of Opposite versus Same-Sex Urinary Chemosignals and Stimulates Mating in Male Mice. <i>ENeuro</i> , 2017, 4, ENEURO.0010-17.2017.	0.9	30
30	Biodegradable PLGA Nanoparticles Restore Lysosomal Acidity and Protect Neural PC-12 Cells against Mitochondrial Toxicity. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 13910-13917.	1.8	28
31	Rationally Designed MicroRNA-Based Genetic Classifiers Target Specific Neurons in the Brain. <i>ACS Synthetic Biology</i> , 2015, 4, 788-795.	1.9	24
32	Automatic Cell Segmentation by Adaptive Thresholding (ACSAT) for Large-Scale Calcium Imaging Datasets. <i>ENeuro</i> , 2018, 5, ENEURO.0056-18.2018.	0.9	21
33	Large-scale voltage imaging in behaving mice using targeted illumination. <i>IScience</i> , 2021, 24, 103263.	1.9	21
34	Secreted P-glycoprotein is a noninvasive biomarker of chronic rhinosinusitis. <i>Laryngoscope</i> , 2017, 127, E1-E4.	1.1	20
35	Video-rate volumetric neuronal imaging using 3D targeted illumination. <i>Scientific Reports</i> , 2018, 8, 7921.	1.6	20
36	P-glycoprotein regulates <i>Staphylococcus aureus</i> enterotoxin B-stimulated interleukin-5 and thymic stromal lymphopoietin secretion in organotypic mucosal explants. <i>International Forum of Allergy and Rhinology</i> , 2016, 6, 169-177.	1.5	19

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37	Fast, multiplane line-scan confocal microscopy using axially distributed slits. <i>Biomedical Optics Express</i> , 2021, 12, 1339.	1.5	18
38	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. <i>Neurophotonics</i> , 2022, 9, 013001.	1.7	17
39	Itraconazole and clarithromycin inhibit P-glycoprotein activity in primary human sinonasal epithelial cells. <i>International Forum of Allergy and Rhinology</i> , 2015, 5, 477-480.	1.5	16
40	Lipid-mediated DNA and siRNA transfection efficiency depends on peptide headgroup. <i>Soft Matter</i> , 2013, 9, 4472.	1.2	15
41	CaMKII $\delta$ -Positive Interneurons Identified via a microRNA-Based Viral Gene Targeting Strategy. <i>Journal of Neuroscience</i> , 2020, 40, 9576-9588.	1.7	15
42	A Viral Toolbox of Genetically Encoded Fluorescent Synaptic Tags. <i>iScience</i> , 2020, 23, 101330.	1.9	14
43	Mild Blast Injury Produces Acute Changes in Basal Intracellular Calcium Levels and Activity Patterns in Mouse Hippocampal Neurons. <i>Journal of Neurotrauma</i> , 2018, 35, 1523-1536.	1.7	13
44	Distinct neuronal populations contribute to trace conditioning and extinction learning in the hippocampal CA1. <i>eLife</i> , 2021, 10, .	2.8	13
45	Dopamine depletion selectively disrupts interactions between striatal neuron subtypes and LFP oscillations. <i>Cell Reports</i> , 2022, 38, 110265.	2.9	12
46	Muscarinic receptors regulate auditory and prefrontal cortical communication during auditory processing. <i>Neuropharmacology</i> , 2019, 144, 155-171.	2.0	10
47	Striatal cholinergic receptor activation causes a rapid, selective and state-dependent rise in cortico-striatal $I^2$ activity. <i>European Journal of Neuroscience</i> , 2018, 48, 2857-2868.	1.2	9
48	Distinct Spiking Patterns of Excitatory and Inhibitory Neurons and LFP Oscillations in Prefrontal Cortex During Sensory Discrimination. <i>Frontiers in Physiology</i> , 2021, 12, 618307.	1.3	9
49	Application of a convolutional neural network for fully-automated detection of spike ripples in the scalp electroencephalogram. <i>Journal of Neuroscience Methods</i> , 2021, 360, 109239.	1.3	7
50	A Teensy microcontroller-based interface for optical imaging camera control during behavioral experiments. <i>Journal of Neuroscience Methods</i> , 2019, 320, 107-115.	1.3	5
51	Voltage Imaging of Cardiac Cells and Tissue Using the Genetically Encoded Voltage Sensor Archon1. <i>iScience</i> , 2020, 23, 100974.	1.9	5
52	Optogenetics and Deep Brain Stimulation Neurotechnologies. <i>Handbook of Experimental Pharmacology</i> , 2015, 228, 441-450.	0.9	4
53	Region-specific effects of ultrasound on individual neurons in the awake mammalian brain. <i>iScience</i> , 2021, 24, 102955.	1.9	4
54	Heterotopic Mucosal Engrafting Procedure for Direct Drug Delivery to the Brain in Mice. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	3

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55	Spike ripples in striatum correlate with seizure risk in two mouse models. <i>Epilepsy and Behavior Reports</i> , 2022, 18, 100529.	0.5	2
56	Ultrafast Voltage Imaging of Single Neurons at Ten Kilohertz in Behaving Mice. , 2021, , .		1
57	Optogenetics. , 2014, , 269-282.		0