Z Josh Huang

List of Publications by Year
in descending order

94 papers	19,958 citations	19608 61 h-index	35952 97 g-index
118 all docs	118 docs citations	118 times ranked	16696 citing authors

#	Article	IF	Citations
1	Retinal and Callosal Activity-Dependent Chandelier Cell Elimination Shapes Binocularity in Primary Visual Cortex. Neuron, 2021, 109, 502-515.e7.	3.8	23
2	Single-cell alternative polyadenylation analysis delineates GABAergic neuron types. BMC Biology, 2021, 19, 144.	1.7	12
3	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. Nature, 2021, 598, 103-110.	13.7	166
4	Morphological diversity of single neurons in molecularly defined cell types. Nature, 2021, 598, 174-181.	13.7	180
5	Genetically identified amygdalaâ€"striatal circuits for valence-specific behaviors. Nature Neuroscience, 2021, 24, 1586-1600.	7.1	56
6	A multimodal cell census and atlas of the mammalian primary motor cortex. Nature, 2021, 598, 86-102.	13.7	316
7	Genetic dissection of the glutamatergic neuron system in cerebral cortex. Nature, 2021, 598, 182-187.	13.7	75
8	Cellular anatomy of the mouse primary motor cortex. Nature, 2021, 598, 159-166.	13.7	117
9	Recruitment and inhibitory action of hippocampal axo-axonic cells during behavior. Neuron, 2021, 109, 3838-3850.e8.	3.8	44
10	A genetically defined insula-brainstem circuit selectively controls motivational vigor. Cell, 2021, 184, 6344-6360.e18.	13.5	28
11	A Genetically Defined Compartmentalized Striatal Direct Pathway for Negative Reinforcement. Cell, 2020, 183, 211-227.e20.	13.5	49
12	A community-based transcriptomics classification and nomenclature of neocortical cell types. Nature Neuroscience, 2020, 23, 1456-1468.	7.1	183
13	Maternal Experience-Dependent Cortical Plasticity in Mice Is Circuit- and Stimulus-Specific and Requires MECP2. Journal of Neuroscience, 2020, 40, 1514-1526.	1.7	29
14	Semantic segmentation of microscopic neuroanatomical data by combining topological priors with encoderâ€"decoder deep networks. Nature Machine Intelligence, 2020, 2, 585-594.	8.3	12
15	High-Throughput Mapping of Long-Range Neuronal Projection Using In Situ Sequencing. Cell, 2019, 179, 772-786.e19.	13.5	146
16	The diversity of GABAergic neurons and neural communication elements. Nature Reviews Neuroscience, 2019, 20, 563-572.	4.9	167
17	Genetic Single Neuron Anatomy Reveals Fine Granularity of Cortical Axo-Axonic Cells. Cell Reports, 2019, 26, 3145-3159.e5.	2.9	51
18	Genetic approaches to access cell types in mammalian nervous systems. Current Opinion in Neurobiology, 2018, 50, 109-118.	2.0	28

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19	Characterizing the replicability of cell types defined by single cell RNA-sequencing data using MetaNeighbor. Nature Communications, 2018, 9, 884.	5.8	214
20	Mouse<i>Cntnap2</i>and Human<i>CNTNAP2</i>ASD Alleles Cell Autonomously Regulate PV+ Cortical Interneurons. Cerebral Cortex, 2018, 28, 3868-3879.	1.6	71
21	Single-cell RNA Sequencing of Fluorescently Labeled Mouse Neurons Using Manual Sorting and Double In Vitro Transcription with Absolute Counts Sequencing (DIVA-Seq). Journal of Visualized Experiments, 2018, , .	0.2	2
22	Radial Glial Lineage Progression and Differential Intermediate Progenitor Amplification Underlie Striatal Compartments and Circuit Organization. Neuron, 2018, 99, 345-361.e4.	3.8	55
23	MECP2 regulates cortical plasticity underlying a learned behaviour in adult female mice. Nature Communications, 2017, 8, 14077.	5.8	75
24	Transcriptional Architecture of Synaptic Communication Delineates GABAergic Neuron Identity. Cell, 2017, 171, 522-539.e20.	13.5	343
25	Brain-wide Maps Reveal Stereotyped Cell-Type-Based Cortical Architecture and Subcortical Sexual Dimorphism. Cell, 2017, 171, 456-469.e22.	13.5	301
26	Selective inhibitory control of pyramidal neuron ensembles and cortical subnetworks by chandelier cells. Nature Neuroscience, 2017, 20, 1377-1383.	7.1	86
27	Exploiting single-cell expression to characterize co-expression replicability. Genome Biology, 2016, 17, 101.	3.8	66
28	Brain-Wide Maps of Synaptic Input to Cortical Interneurons. Journal of Neuroscience, 2016, 36, 4000-4009.	1.7	143
29	Strategies and Tools for Combinatorial Targeting of GABAergic Neurons in Mouse Cerebral Cortex. Neuron, 2016, 91, 1228-1243.	3.8	260
30	The paraventricular thalamus controls a central amygdala fear circuit. Nature, 2015, 519, 455-459.	13.7	416
31	The Mediodorsal Thalamus Drives Feedforward Inhibition in the Anterior Cingulate Cortex via Parvalbumin Interneurons. Journal of Neuroscience, 2015, 35, 5743-5753.	1.7	178
32	MeCP2 regulates the timing of critical period plasticity that shapes functional connectivity in primary visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4782-91.	3.3	122
33	<i>Prox1</i>Regulates the Subtype-Specific Development of Caudal Ganglionic Eminence-Derived GABAergic Cortical Interneurons. Journal of Neuroscience, 2015, 35, 12869-12889.	1.7	104
34	ErbB4 regulation of a thalamic reticular nucleus circuit for sensory selection. Nature Neuroscience, 2015, 18, 104-111.	7.1	101
35	GAD67 Deficiency in Parvalbumin Interneurons Produces Deficits in Inhibitory Transmission and Network Disinhibition in Mouse Prefrontal Cortex. Cerebral Cortex, 2015, 25, 1290-1296.	1.6	93
36	Input-specific maturation of synaptic dynamics of parvalbumin interneurons in primary visual cortex. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16895-16900.	3.3	34

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37	A Cortical Circuit for Gain Control by Behavioral State. Cell, 2014, 156, 1139-1152.	13.5	827
38	Presynaptic inhibition of spinal sensory feedback ensures smooth movement. Nature, 2014, 509, 43-48.	13.7	207
39	Toward a Genetic Dissection of Cortical Circuits in the Mouse. Neuron, 2014, 83, 1284-1302.	3.8	121
40	Cre-Dependent Adeno-Associated Virus Preparation and Delivery for Labeling Neurons in the Mouse Brain. Cold Spring Harbor Protocols, 2014, 2014, pdb.prot080382.	0.2	15
41	Genetic Labeling of Neurons in Mouse Brain. Cold Spring Harbor Protocols, 2014, 2014, pdb.top080374.	0.2	10
42	Targeting cells with single vectors using multiple-feature Boolean logic. Nature Methods, 2014, 11, 763-772.	9.0	427
43	Lineage-specific laminar organization of cortical GABAergic interneurons. Nature Neuroscience, 2013, 16, 1199-1210.	7.1	113
44	Cortical interneurons that specialize in disinhibitory control. Nature, 2013, 503, 521-524.	13.7	936
45	A disinhibitory circuit mediates motor integration in the somatosensory cortex. Nature Neuroscience, 2013, 16, 1662-1670.	7.1	638
46	Contrast Dependence and Differential Contributions from Somatostatin- and Parvalbumin-Expressing Neurons to Spatial Integration in Mouse V1. Journal of Neuroscience, 2013, 33, 11145-11154.	1.7	74
47	A Cortico-Hippocampal Learning Rule Shapes Inhibitory Microcircuit Activity to Enhance Hippocampal Information Flow. Neuron, 2013, 79, 1208-1221.	3.8	113
48	The Spatial and Temporal Origin of Chandelier Cells in Mouse Neocortex. Science, 2013, 339, 70-74.	6.0	246
49	Role of glutamic acid decarboxylase 67 in regulating cortical parvalbumin and GABA membrane transporter 1 expression: Implications for schizophrenia. Neurobiology of Disease, 2013, 50, 179-186.	2.1	52
50	New insights into the classification and nomenclature of cortical GABAergic interneurons. Nature Reviews Neuroscience, 2013, 14, 202-216.	4.9	707
51	Experience-dependent modification of a central amygdala fear circuit. Nature Neuroscience, 2013, 16, 332-339.	7.1	426
52	Genetic Approaches to Neural Circuits in the Mouse. Annual Review of Neuroscience, 2013, 36, 183-215.	5.0	184
53	Inhibition of inhibition in visual cortex: the logic of connections between molecularly distinct interneurons. Nature Neuroscience, 2013, 16, 1068-1076.	7.1	1,132
54	Neural Cell Adhesion Molecule-Mediated Fyn Activation Promotes GABAergic Synapse Maturation in Postnatal Mouse Cortex. Journal of Neuroscience, 2013, 33, 5957-5968.	1.7	41

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55	GABA Signaling Promotes Synapse Elimination and Axon Pruning in Developing Cortical Inhibitory Interneurons. Journal of Neuroscience, 2012, 32, 331-343.	1.7	98
56	Cell-Type-Based Analysis of MicroRNA Profiles in the Mouse Brain. Neuron, 2012, 73, 35-48.	3.8	254
57	Unique functional properties of somatostatin-expressing GABAergic neurons in mouse barrel cortex. Nature Neuroscience, 2012, 15, 607-612.	7.1	416
58	A neural circuit for spatial summation in visual cortex. Nature, 2012, 490, 226-231.	13.7	580
59	Neuronal circuitry mechanism regulating adult quiescent neural stem-cell fate decision. Nature, 2012, 489, 150-154.	13.7	463
60	Cortical Glutamic Acid Decarboxylase 67 Deficiency Results in Lower Cannabinoid 1 Receptor Messenger RNA Expression: Implications for Schizophrenia. Biological Psychiatry, 2012, 71, 114-119.	0.7	19
61	Presynaptic GABAB Receptor Regulates Activity-Dependent Maturation and Patterning of Inhibitory Synapses through Dynamic Allocation of Synaptic Vesicles. Frontiers in Cellular Neuroscience, 2012, 6, 57.	1.8	25
62	Developmental Coordination of Gene Expression between Synaptic Partners During GABAergic Circuit Assembly in Cerebellar Cortex. Frontiers in Neural Circuits, 2012, 6, 37.	1.4	26
63	Activation of specific interneurons improves V1 feature selectivity and visual perception. Nature, 2012, 488, 379-383.	13.7	530
64	A Resource of Cre Driver Lines for Genetic Targeting of GABAergic Neurons in Cerebral Cortex. Neuron, 2011, 71, 995-1013.	3.8	1,659
65	Cortical representations of olfactory input by trans-synaptic tracing. Nature, 2011, 472, 191-196.	13.7	478
66	Following the genes: a framework for animal modeling of psychiatric disorders. BMC Biology, 2011, 9, 76.	1.7	27
67	Distinct maturation profiles of perisomatic and dendritic targeting GABAergic interneurons in the mouse primary visual cortex during the critical period of ocular dominance plasticity. Journal of Neurophysiology, 2011, 106, 775-787.	0.9	68
68	Visual Representations by Cortical Somatostatin Inhibitory Neuronsâ€"Selective But with Weak and Delayed Responses. Journal of Neuroscience, 2010, 30, 14371-14379.	1.7	211
69	Differential dynamics and activity-dependent regulation of Î±- and Î²-neurexins at developing GABAergic synapses. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22699-22704.	3.3	63
70	Maturation of GABAergic Inhibition Promotes Strengthening of Temporally Coherent Inputs among Convergent Pathways. PLoS Computational Biology, 2010, 6, e1000797.	1.5	41
71	Response Features of Parvalbumin-Expressing Interneurons Suggest Precise Roles for Subtypes of Inhibition in Visual Cortex. Neuron, 2010, 67, 847-857.	3.8	214
72	A Proposal for a Coordinated Effort for the Determination of Brainwide Neuroanatomical Connectivity in Model Organisms at a Mesoscopic Scale. PLoS Computational Biology, 2009, 5, e1000334.	1.5	242

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73	Activityâ€dependent development of inhibitory synapses and innervation pattern: role of GABA signalling and beyond. Journal of Physiology, 2009, 587, 1881-1888.	1.3	97
74	Transient neurites of retinal horizontal cells exhibit columnar tiling via homotypic interactions. Nature Neuroscience, 2009, 12, 35-43.	7.1	95
75	GABA and neuroligin signaling: linking synaptic activity and adhesion in inhibitory synapse development. Current Opinion in Neurobiology, 2008, 18, 77-83.	2.0	86
76	Time to Change: Retina Sends a Messenger to Promote Plasticity in Visual Cortex. Neuron, 2008, 59, 355-358.	3.8	11
77	Robust but delayed thalamocortical activation of dendritic-targeting inhibitory interneurons. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2187-2192.	3.3	134
78	Bergmann Glia and the Recognition Molecule CHL1 Organize GABAergic Axons and Direct Innervation of Purkinje Cell Dendrites. PLoS Biology, 2008, 6, e103.	2.6	120
79	Differential Activity-Dependent, Homeostatic Plasticity of Two Neocortical Inhibitory Circuits. Journal of Neurophysiology, 2008, 100, 1983-1994.	0.9	67
80	High-Resolution Labeling and Functional Manipulation of Specific Neuron Types in Mouse Brain by Cre-Activated Viral Gene Expression. PLoS ONE, 2008, 3, e2005.	1.1	159
81	Correlation Between Axonal Morphologies and Synaptic Input Kinetics of Interneurons from Mouse Visual Cortex. Cerebral Cortex, 2007, 17, 81-91.	1.6	97
82	GAD67-Mediated GABA Synthesis and Signaling Regulate Inhibitory Synaptic Innervation in the Visual Cortex. Neuron, 2007, 54, 889-903.	3.8	277
83	Activity-dependent PSA expression regulates inhibitory maturation and onset of critical period plasticity. Nature Neuroscience, 2007, 10, 1569-1577.	7.1	181
84	Development of GABA innervation in the cerebral and cerebellar cortices. Nature Reviews Neuroscience, 2007, 8, 673-686.	4.9	248
85	GABAB Receptor Isoforms Caught in Action at the Scene. Neuron, 2006, 50, 521-524.	3.8	25
86	Molecular taxonomy of major neuronal classes in the adult mouse forebrain. Nature Neuroscience, 2006, 9, 99-107.	7.1	502
87	Subcellular organization of GABAergic synapses: role of ankyrins and L1 cell adhesion molecules. Nature Neuroscience, 2006, 9, 163-166.	7.1	38
88	Maturation of GABAergic transmission and the timing of plasticity in visual cortex. Brain Research Reviews, 2005, 50, 126-133.	9.1	101
89	Specific Functions of Synaptically Localized Potassium Channels in Synaptic Transmission at the Neocortical GABAergic Fast-Spiking Cell Synapse. Journal of Neuroscience, 2005, 25, 5230-5235.	1.7	93
90	Subcellular domain-restricted GABAergic innervation in primary visual cortex in the absence of sensory and thalamic inputs. Nature Neuroscience, 2004, 7, 1184-1186.	7.1	152

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91	Experience and Activity-Dependent Maturation of Perisomatic GABAergic Innervation in Primary Visual Cortex during a Postnatal Critical Period. Journal of Neuroscience, 2004, 24, 9598-9611.	1.7	540
92	Ankyrin-Based Subcellular Gradient of Neurofascin, an Immunoglobulin Family Protein, Directs GABAergic Innervation at Purkinje Axon Initial Segment. Cell, 2004, 119, 257-272.	13.5	338
93	Visual cortex is rescued from the effects of dark rearing by overexpression of BDNF. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12486-12491.	3.3	169
94	tÂ Brain-Derived Neurotrophic Factor Overexpression Induces Precocious Critical Period in Mouse Visual Cortex. Journal of Neuroscience, 1999, 19, RC40-RC40.	1.7	239