

Guoping Feng

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

27,811
citations

7672

79
h-index

15698

129
g-index

189
all docs

189
docs citations

189
times ranked

35787
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Sapap4</i> deficiency leads to postsynaptic defects and abnormal behaviors relevant to hyperkinetic neuropsychiatric disorder in mice. <i>Cerebral Cortex</i> , 2023, 33, 1104-1118.	1.6	2
2	Thalamic subnetworks as units of function. <i>Nature Neuroscience</i> , 2022, 25, 140-153.	7.1	50
3	AAV capsid variants with brain-wide transgene expression and decreased liver targeting after intravenous delivery in mouse and marmoset. <i>Nature Neuroscience</i> , 2022, 25, 106-115.	7.1	162
4	Multi-animal pose estimation, identification and tracking with DeepLabCut. <i>Nature Methods</i> , 2022, 19, 496-504.	9.0	165
5	Anterior thalamic circuits crucial for working memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118712119.	3.3	16
6	Targeting thalamic circuits rescues motor and mood deficits in PD mice. <i>Nature</i> , 2022, 607, 321-329.	13.7	32
7	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021, 592, 195-204.	13.7	84
8	Efficient embryonic homozygous gene conversion via RAD51-enhanced interhomolog repair. <i>Cell</i> , 2021, 184, 3267-3280.e18.	13.5	37
9	MyelTracer: A Semi-Automated Software for Myelin <i>g</i> -Ratio Quantification. <i>ENeuro</i> , 2021, 8, ENEURO.0558-20.2021.	0.9	32
10	Anterior thalamic dysfunction underlies cognitive deficits in a subset of neuropsychiatric disease models. <i>Neuron</i> , 2021, 109, 2590-2603.e13.	3.8	34
11	Comparative cellular analysis of motor cortex in human, marmoset and mouse. <i>Nature</i> , 2021, 598, 111-119.	13.7	361
12	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021, 598, 86-102.	13.7	316
13	Epitope-preserving magnified analysis of proteome (eMAP). <i>Science Advances</i> , 2021, 7, eabf6589.	4.7	22
14	Shank3 mutation in a mouse model of autism leads to changes in the S-nitroso-proteome and affects key proteins involved in vesicle release and synaptic function. <i>Molecular Psychiatry</i> , 2020, 25, 1835-1848.	4.1	82
15	Innovations present in the primate interneuron repertoire. <i>Nature</i> , 2020, 586, 262-269.	13.7	206
16	Distinct subnetworks of the thalamic reticular nucleus. <i>Nature</i> , 2020, 583, 819-824.	13.7	104
17	The dawn of non-human primate models for neurodevelopmental disorders. <i>Current Opinion in Genetics and Development</i> , 2020, 65, 160-168.	1.5	18
18	Viral manipulation of functionally distinct interneurons in mice, non-human primates and humans. <i>Nature Neuroscience</i> , 2020, 23, 1629-1636.	7.1	133

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19	Opportunities and limitations of genetically modified nonhuman primate models for neuroscience research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24022-24031.	3.3	64
20	An Ultra-Sensitive Step-Function Opsin for Minimally Invasive Optogenetic Stimulation in Mice and Macaques. <i>Neuron</i> , 2020, 107, 38-51.e8.	3.8	99
21	Multiplex precise base editing in cynomolgus monkeys. <i>Nature Communications</i> , 2020, 11, 2325.	5.8	28
22	Dysfunction of cortical GABAergic neurons leads to sensory hyper-reactivity in a Shank3 mouse model of ASD. <i>Nature Neuroscience</i> , 2020, 23, 520-532.	7.1	115
23	Effects of a patient-derived de novo coding alteration of CACNA11 in mice connect a schizophrenia risk gene with sleep spindle deficits. <i>Translational Psychiatry</i> , 2020, 10, 29.	2.4	25
24	Remotely controlled chemomagnetic modulation of targeted neural circuits. <i>Nature Nanotechnology</i> , 2019, 14, 967-973.	15.6	77
25	Targeting Peripheral Somatosensory Neurons to Improve Tactile-Related Phenotypes in ASD Models. <i>Cell</i> , 2019, 178, 867-886.e24.	13.5	160
26	Lateral orbitofrontal dysfunction in the <i>Sapap3</i> knockout mouse model of obsessive-compulsive disorder. <i>Journal of Psychiatry and Neuroscience</i> , 2019, 44, 120-131.	1.4	18
27	Anterior cingulate cortex dysfunction underlies social deficits in Shank3 mutant mice. <i>Nature Neuroscience</i> , 2019, 22, 1223-1234.	7.1	168
28	Combinatorial Targeting of Distributed Forebrain Networks Reverses Noise Hypersensitivity in a Model of Autism Spectrum Disorder. <i>Neuron</i> , 2019, 104, 488-500.e11.	3.8	17
29	Efficient generation of Knock-in/Knock-out marmoset embryo via CRISPR/Cas9 gene editing. <i>Scientific Reports</i> , 2019, 9, 12719.	1.6	42
30	A framework for the investigation of rare genetic disorders in neuropsychiatry. <i>Nature Medicine</i> , 2019, 25, 1477-1487.	15.2	90
31	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. <i>Neuron</i> , 2019, 103, 217-234.e4.	3.8	518
32	Atypical behaviour and connectivity in SHANK3-mutant macaques. <i>Nature</i> , 2019, 570, 326-331.	13.7	172
33	Neuronal deletion of Gtf2i, associated with Williams syndrome, causes behavioral and myelin alterations rescuable by a remyelinating drug. <i>Nature Neuroscience</i> , 2019, 22, 700-708.	7.1	92
34	Abnormal mGluR-mediated synaptic plasticity and autism-like behaviours in Gprasp2 mutant mice. <i>Nature Communications</i> , 2019, 10, 1431.	5.8	39
35	Tmem119-EGFP and Tmem119-CreERT2 Transgenic Mice for Labeling and Manipulating Microglia. <i>ENeuro</i> , 2019, 6, ENEURO.0448-18.2019.	0.9	153
36	Thalamic Reticular Dysfunction as a Circuit Endophenotype in Neurodevelopmental Disorders. <i>Neuron</i> , 2018, 98, 282-295.	3.8	84

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37	Windows of opportunity: timing in neurodevelopmental disorders. <i>Current Opinion in Neurobiology</i> , 2018, 48, 59-63.	2.0	19
38	Combining NGN2 Programming with Developmental Patterning Generates Human Excitatory Neurons with NMDAR-Mediated Synaptic Transmission. <i>Cell Reports</i> , 2018, 23, 2509-2523.	2.9	168
39	Dichotomous parvalbumin interneuron populations in dorsolateral and dorsomedial striatum. <i>Journal of Physiology</i> , 2018, 596, 3695-3707.	1.3	24
40	Thrombospondin receptor TSPO1 promotes synaptogenesis and spinogenesis via postsynaptic Rac1. <i>Journal of Cell Biology</i> , 2018, 217, 3747-3765.	2.3	116
41	SHANK proteins: roles at the synapse and in autism spectrum disorder. <i>Nature Reviews Neuroscience</i> , 2017, 18, 147-157.	4.9	508
42	Chd8 Mutation Leads to Autistic-like Behaviors and Impaired Striatal Circuits. <i>Cell Reports</i> , 2017, 19, 335-350.	2.9	177
43	Animal models for neuropsychiatric disorders: prospects for circuit intervention. <i>Current Opinion in Neurobiology</i> , 2017, 45, 59-65.	2.0	19
44	Integrating evolutionary and regulatory information with a multispecies approach implicates genes and pathways in obsessive-compulsive disorder. <i>Nature Communications</i> , 2017, 8, 774.	5.8	52
45	Striatopallidal dysfunction underlies repetitive behavior in Shank3-deficient model of autism. <i>Journal of Clinical Investigation</i> , 2017, 127, 1978-1990.	3.9	151
46	Direct modulation of GFAP-expressing glia in the arcuate nucleus bi-directionally regulates feeding. <i>ELife</i> , 2016, 5, .	2.8	91
47	Optogenetic Visualization of Presynaptic Tonic Inhibition of Cerebellar Parallel Fibers. <i>Journal of Neuroscience</i> , 2016, 36, 5709-5723.	1.7	20
48	Neurobiology of social behavior abnormalities in autism and Williams syndrome. <i>Nature Neuroscience</i> , 2016, 19, 647-655.	7.1	179
49	Opportunities and challenges in modeling human brain disorders in transgenic primates. <i>Nature Neuroscience</i> , 2016, 19, 1123-1130.	7.1	115
50	Efficient production of cynomolgus monkeys with a toolbox of enhanced assisted reproductive technologies. <i>Scientific Reports</i> , 2016, 6, 25888.	1.6	8
51	A viral strategy for targeting and manipulating interneurons across vertebrate species. <i>Nature Neuroscience</i> , 2016, 19, 1743-1749.	7.1	396
52	Mice with Shank3 Mutations Associated with ASD and Schizophrenia Display Both Shared and Distinct Defects. <i>Neuron</i> , 2016, 89, 147-162.	3.8	279
53	Thalamic reticular impairment underlies attention deficit in <i>Ptchd1</i> ^{-/-} mice. <i>Nature</i> , 2016, 532, 58-63.	13.7	167
54	Adult restoration of Shank3 expression rescues selective autistic-like phenotypes. <i>Nature</i> , 2016, 530, 481-484.	13.7	347

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55	Impaired Dendritic Development and Memory in Sorbs2 Knock-Out Mice. <i>Journal of Neuroscience</i> , 2016, 36, 2247-2260.	1.7	62
56	Striatal Magnetic Resonance Spectroscopy Abnormalities in Young Adult Sapap3 Knockout Mice. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2016, 1, 39-48.	1.1	14
57	Learning From Animal Models of Obsessive-Compulsive Disorder. <i>Biological Psychiatry</i> , 2016, 79, 7-16.	0.7	63
58	CRISPR germline engineering—the community speaks. <i>Nature Biotechnology</i> , 2015, 33, 478-486.	9.4	110
59	Brains, Genes, and Primates. <i>Neuron</i> , 2015, 86, 617-631.	3.8	231
60	Modeling psychiatric disorders for developing effective treatments. <i>Nature Medicine</i> , 2015, 21, 979-988.	15.2	127
61	Striatal circuits, habits, and implications for obsessive-compulsive disorder. <i>Current Opinion in Neurobiology</i> , 2015, 30, 59-65.	2.0	214
62	Genome-scale neurogenetics: methodology and meaning. <i>Nature Neuroscience</i> , 2014, 17, 756-763.	7.1	82
63	Flow of Cortical Activity Underlying a Tactile Decision in Mice. <i>Neuron</i> , 2014, 81, 179-194.	3.8	622
64	Sensory Integration in Mouse Insular Cortex Reflects GABA Circuit Maturation. <i>Neuron</i> , 2014, 83, 894-905.	3.8	282
65	CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. <i>Cell</i> , 2014, 159, 440-455.	13.5	1,566
66	Candidate genes and functional noncoding variants identified in a canine model of obsessive-compulsive disorder. <i>Genome Biology</i> , 2014, 15, R25.	13.9	78
67	Selective Activation of Cholinergic Basal Forebrain Neurons Induces Immediate Sleep-wake Transitions. <i>Current Biology</i> , 2014, 24, 693-698.	1.8	121
68	Optogenetic Mapping of Cerebellar Inhibitory Circuitry Reveals Spatially Biased Coordination of Interneurons via Electrical Synapses. <i>Cell Reports</i> , 2014, 7, 1601-1613.	2.9	62
69	Circuit-Selective Striatal Synaptic Dysfunction in the Sapap3 Knockout Mouse Model of Obsessive-Compulsive Disorder. <i>Biological Psychiatry</i> , 2014, 75, 623-630.	0.7	85
70	Acute Brain Slice Methods for Adult and Aging Animals: Application of Targeted Patch Clamp Analysis and Optogenetics. <i>Methods in Molecular Biology</i> , 2014, 1183, 221-242.	0.4	533
71	The Role of Muscle microRNAs in Repairing the Neuromuscular Junction. <i>PLoS ONE</i> , 2014, 9, e93140.	1.1	60
72	Optogenetic Stimulation of Lateral Orbitofronto-Striatal Pathway Suppresses Compulsive Behaviors. <i>Science</i> , 2013, 340, 1243-1246.	6.0	365

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73	Fast modulation of visual perception by basal forebrain cholinergic neurons. <i>Nature Neuroscience</i> , 2013, 16, 1857-1863.	7.1	489
74	Development of transgenic animals for optogenetic manipulation of mammalian nervous system function: Progress and prospects for behavioral neuroscience. <i>Behavioural Brain Research</i> , 2013, 255, 3-18.	1.2	49
75	ChAT-ChR2-EYFP Mice Have Enhanced Motor Endurance But Show Deficits in Attention and Several Additional Cognitive Domains. <i>Journal of Neuroscience</i> , 2013, 33, 10427-10438.	1.7	119
76	Cortical Control of Affective Networks. <i>Journal of Neuroscience</i> , 2013, 33, 1116-1129.	1.7	94
77	Normal Midbrain Dopaminergic Neuron Development and Function in miR-133b Mutant Mice. <i>Journal of Neuroscience</i> , 2012, 32, 10887-10894.	1.7	59
78	Cellular and synaptic network defects in autism. <i>Current Opinion in Neurobiology</i> , 2012, 22, 866-872.	2.0	78
79	Imaging Neural Activity Using Thy1-GCaMP Transgenic Mice. <i>Neuron</i> , 2012, 76, 297-308.	3.8	207
80	A transcription activator-like effector toolbox for genome engineering. <i>Nature Protocols</i> , 2012, 7, 171-192.	5.5	568
81	Functional Consequences of Mutations in Postsynaptic Scaffolding Proteins and Relevance to Psychiatric Disorders. <i>Annual Review of Neuroscience</i> , 2012, 35, 49-71.	5.0	103
82	Cell type-specific channelrhodopsin-2 transgenic mice for optogenetic dissection of neural circuitry function. <i>Nature Methods</i> , 2011, 8, 745-752.	9.0	605
83	Sustained axon regeneration induced by co-deletion of PTEN and SOCS3. <i>Nature</i> , 2011, 480, 372-375.	13.7	637
84	Selective optical drive of thalamic reticular nucleus generates thalamic bursts and cortical spindles. <i>Nature Neuroscience</i> , 2011, 14, 1118-1120.	7.1	248
85	Habenula Cholinergic Neurons Corelease Glutamate and Acetylcholine and Activate Postsynaptic Neurons via Distinct Transmission Modes. <i>Neuron</i> , 2011, 69, 445-452.	3.8	284
86	Shank3 mutant mice display autistic-like behaviours and striatal dysfunction. <i>Nature</i> , 2011, 472, 437-442.	13.7	1,273
87	Neurobiology of obsessive-compulsive disorder: insights into neural circuitry dysfunction through mouse genetics. <i>Current Opinion in Neurobiology</i> , 2011, 21, 842-848.	2.0	113
88	Sapap3 Deletion Causes mGluR5-Dependent Silencing of AMPAR Synapses. <i>Journal of Neuroscience</i> , 2011, 31, 16685-16691.	1.7	86
89	Sapap3 Deletion Anomalously Activates Short-Term Endocannabinoid-Mediated Synaptic Plasticity. <i>Journal of Neuroscience</i> , 2011, 31, 9563-9573.	1.7	78
90	Visual Function in Mice with Photoreceptor Degeneration and Transgenic Expression of Channelrhodopsin 2 in Ganglion Cells. <i>Journal of Neuroscience</i> , 2010, 30, 8745-8758.	1.7	125

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91	Progressive NKCC1-Dependent Neuronal Chloride Accumulation during Neonatal Seizures. <i>Journal of Neuroscience</i> , 2010, 30, 11745-11761.	1.7	173
92	Downregulation of NR3A-Containing NMDARs Is Required for Synapse Maturation and Memory Consolidation. <i>Neuron</i> , 2009, 63, 342-356.	3.8	131
93	Differences in Cortical versus Subcortical GABAergic Signaling: A Candidate Mechanism of Electroclinical Uncoupling of Neonatal Seizures. <i>Neuron</i> , 2009, 63, 657-672.	3.8	133
94	Improved expression of halorhodopsin for light-induced silencing of neuronal activity. <i>Brain Cell Biology</i> , 2008, 36, 141-154.	3.5	176
95	Single-neuron labeling with inducible Cre-mediated knockout in transgenic mice. <i>Nature Neuroscience</i> , 2008, 11, 721-728.	7.1	149
96	Glutamatergic Synaptic Dysfunction and Obsessive-Compulsive Disorder. <i>Current Chemical Genomics</i> , 2008, 2, 62-75.	2.0	102
97	The Histone Deacetylase HDAC4 Connects Neural Activity to Muscle Transcriptional Reprogramming. <i>Journal of Biological Chemistry</i> , 2007, 282, 33752-33759.	1.6	156
98	In Vivo Light-Induced Activation of Neural Circuitry in Transgenic Mice Expressing Channelrhodopsin-2. <i>Neuron</i> , 2007, 54, 205-218.	3.8	680
99	Cortico-striatal synaptic defects and OCD-like behaviours in Sapap3-mutant mice. <i>Nature</i> , 2007, 448, 894-900.	13.7	688
100	Next-Generation Optical Technologies for Illuminating Genetically Targeted Brain Circuits. <i>Journal of Neuroscience</i> , 2006, 26, 10380-10386.	1.7	708
101	Calcium channel α_1 subunit mediates spinal hyperexcitability in pain modulation. <i>Pain</i> , 2006, 125, 20-34.	2.0	231
102	Two-Photon Imaging Reveals Somatodendritic Chloride Gradient in Retinal ON-Type Bipolar Cells Expressing the Biosensor Clomeleon. <i>Neuron</i> , 2006, 49, 81-94.	3.8	154
103	Imaging synaptic inhibition in transgenic mice expressing the chloride indicator, Clomeleon. <i>Brain Cell Biology</i> , 2006, 35, 207-228.	3.5	89
104	The Chloride Transporter Na ⁺ -K ⁺ -Cl ⁻ Cotransporter Isoform-1 Contributes to Intracellular Chloride Increases after In Vitro Ischemia. <i>Journal of Neuroscience</i> , 2006, 26, 1396-1406.	1.7	119
105	Ubiquilin-1 Regulates Nicotine-induced Up-regulation of Neuronal Nicotinic Acetylcholine Receptors. <i>Journal of Biological Chemistry</i> , 2005, 280, 34088-34095.	1.6	51
106	The Primordial, Blue-Cone Color System of the Mouse Retina. <i>Journal of Neuroscience</i> , 2005, 25, 5438-5445.	1.7	256
107	Dynamic Remodeling of Dendritic Arbors in GABAergic Interneurons of Adult Visual Cortex. <i>PLoS Biology</i> , 2005, 4, e29.	2.6	196
108	PSD93 Regulates Synaptic Stability at Neuronal Cholinergic Synapses. <i>Journal of Neuroscience</i> , 2004, 24, 378-388.	1.7	96

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109	Differential mRNA expression and protein localization of the SAP90/PSD-95-associated proteins (SAPAPs) in the nervous system of the mouse. <i>Journal of Comparative Neurology</i> , 2004, 472, 24-39.	0.9	88
110	Close Homolog of L1 Modulates Area-Specific Neuronal Positioning and Dendrite Orientation in the Cerebral Cortex. <i>Neuron</i> , 2004, 44, 423-437.	3.8	104
111	Functional characterization of a neuropeptide F-like receptor from <i>Drosophila melanogaster</i> . <i>European Journal of Neuroscience</i> , 2003, 18, 227-238.	1.2	92
112	Genetic evidence that relative synaptic efficacy biases the outcome of synaptic competition. <i>Nature</i> , 2003, 424, 430-434.	13.7	287
113	Postsynaptic requirement for Abl kinases in assembly of the neuromuscular junction. <i>Nature Neuroscience</i> , 2003, 6, 717-723.	7.1	115
114	Synaptic dynamism measured over minutes to months: age-dependent decline in an autonomic ganglion. <i>Nature Neuroscience</i> , 2003, 6, 956-960.	7.1	73
115	Long-term in vivo imaging of experience-dependent synaptic plasticity in adult cortex. <i>Nature</i> , 2002, 420, 788-794.	13.7	1,706
116	Gephyrin-Independent Clustering of Postsynaptic GABA _A Receptor Subtypes. <i>Molecular and Cellular Neurosciences</i> , 2001, 17, 973-982.	1.0	138
117	Asynchronous Synapse Elimination in Neonatal Motor Units. <i>Neuron</i> , 2001, 31, 381-394.	3.8	140
118	Glial Cell Line-Derived Neurotrophic Factor Administration in Postnatal Life Results in Motor Unit Enlargement and Continuous Synaptic Remodeling at the Neuromuscular Junction. <i>Journal of Neuroscience</i> , 2001, 21, 6136-6146.	1.7	122
119	Imaging Neuronal Subsets in Transgenic Mice Expressing Multiple Spectral Variants of GFP. <i>Neuron</i> , 2000, 28, 41-51.	3.8	2,833
120	Roles for Ephrins in Positionally Selective Synaptogenesis between Motor Neurons and Muscle Fibers. <i>Neuron</i> , 2000, 25, 295-306.	3.8	129
121	Autoimmunity to Gephyrin in Stiff-Man Syndrome. <i>Neuron</i> , 2000, 26, 307-312.	3.8	195
122	Genetic Analysis of Collagen Q: Roles in Acetylcholinesterase and Butyrylcholinesterase Assembly and in Synaptic Structure and Function. <i>Journal of Cell Biology</i> , 1999, 144, 1349-1360.	2.3	155
123	Synapse Formation by Hippocampal Neurons from Agrin-Deficient Mice. <i>Developmental Biology</i> , 1999, 205, 65-78.	0.9	104
124	Îµ-Sarcoglycan, a Broadly Expressed Homologue of the Gene Mutated in Limb-Girdle Muscular Dystrophy 2D. <i>Journal of Biological Chemistry</i> , 1997, 272, 32534-32538.	1.6	144
125	Cloning and Functional Characterization of a Novel Dopamine Receptor from <i>Drosophila melanogaster</i> . <i>Journal of Neuroscience</i> , 1996, 16, 3925-3933.	1.7	149
126	Cloning and functional analysis of tipE, a novel membrane protein that enhances drosophila para sodium channel function. <i>Cell</i> , 1995, 82, 1001-1011.	13.5	205