

Guo-Qiang Bi

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

12,447
citations

94269

37
h-index

60497

81
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91
all docs

91
docs citations

91
times ranked

12283
citing authors

#	ARTICLE	IF	CITATIONS
1	Whole-brain mapping of efferent projections of the anterior cingulate cortex in adult male mice. <i>Molecular Pain</i> , 2022, 18, 174480692210945.	1.0	7
2	Mapping thalamic-anterior cingulate monosynaptic inputs in adult mice. <i>Molecular Pain</i> , 2022, 18, 174480692210870.	1.0	9
3	Single-cell reconstruction reveals input patterns and pathways into corticotropin-releasing factor neurons in the central amygdala in mice. <i>Communications Biology</i> , 2022, 5, 322.	2.0	1
4	Cross-modal coherent registration of whole mouse brains. <i>Nature Methods</i> , 2022, 19, 111-118.	9.0	36
5	Glucose-sensing glucagon-like peptide-1 receptor neurons in the dorsomedial hypothalamus regulate glucose metabolism. <i>Science Advances</i> , 2022, 8, .	4.7	21
6	Long-range GABAergic projections from the nucleus of the solitary tract. <i>Molecular Brain</i> , 2021, 14, 38.	1.3	16
7	Unique dynamics and exocytosis properties of GABAergic synaptic vesicles revealed by three-dimensional single vesicle tracking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	12
8	Recommendations for Responsible Development and Application of Neurotechnologies. <i>Neuroethics</i> , 2021, 14, 365-386.	1.7	67
9	Guiding the Patterned Growth of Neuronal Axons and Dendrites Using Anisotropic Micropillar Scaffolds. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100094.	3.9	10
10	High-throughput mapping of a whole rhesus monkey brain at micrometer resolution. <i>Nature Biotechnology</i> , 2021, 39, 1521-1528.	9.4	61
11	Structures of capsid and capsid-associated tegument complex inside the Epstein-Barr virus. <i>Nature Microbiology</i> , 2020, 5, 1285-1298.	5.9	14
12	Mesophasic organization of GABAA receptors in hippocampal inhibitory synapses. <i>Nature Neuroscience</i> , 2020, 23, 1589-1596.	7.1	52
13	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
14	High frequency optogenetic activation of inputs to the lateral amygdala forms distant association with foot-shock. <i>Molecular Brain</i> , 2020, 13, 44.	1.3	0
15	Structure and plasticity of silent synapses in developing hippocampal neurons visualized by super-resolution imaging. <i>Cell Discovery</i> , 2020, 6, 8.	3.1	13
16	Biphasic exocytosis of herpesvirus from hippocampal neurons and mechanistic implication to membrane fusion. <i>Cell Discovery</i> , 2020, 6, 2.	3.1	6
17	Towards Neuron Segmentation from Macaque Brain Images: A Weakly Supervised Approach. <i>Lecture Notes in Computer Science</i> , 2020, , 194-203.	1.0	6
18	Frontiers of electron microscopy for biomedical research. <i>Scientia Sinica Vitae</i> , 2020, 50, 1176-1191.	0.1	0

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19	Neuronal Population Reconstruction From Ultra-Scale Optical Microscopy Images via Progressive Learning. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4034-4046.	5.4	14
20	An efficient protocol of cryo-correlative light and electron microscopy for the study of neuronal synapses. <i>Biophysics Reports</i> , 2019, 5, 111-122.	0.2	12
21	Presynaptic Endosomal Cathepsin D Regulates the Biogenesis of GABAergic Synaptic Vesicles. <i>Cell Reports</i> , 2019, 28, 1015-1028.e5.	2.9	17
22	A cautionary tale of entropic criteria in assessing the validity of the maximum entropy principle. <i>Europhysics Letters</i> , 2019, 126, 38005.	0.7	0
23	Bridging Biological and Artificial Neural Networks with Emerging Neuromorphic Devices: Fundamentals, Progress, and Challenges. <i>Advanced Materials</i> , 2019, 31, e1902761.	11.1	418
24	DNA-Packing Portal and Capsid-Associated Tegument Complexes in the Tumor Herpesvirus KSHV. <i>Cell</i> , 2019, 178, 1329-1343.e12.	13.5	45
25	Cryo-EM structures of herpes simplex virus type 1 portal vertex and packaged genome. <i>Nature</i> , 2019, 570, 257-261.	13.7	111
26	Highly Selective and Efficient Synthesis of 7-Aminoquinolines and Their Applications as Golgi-Localized Probes. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 954-959.	1.3	40
27	A VTA GABAergic Neural Circuit Mediates Visually Evoked Innate Defensive Responses. <i>Neuron</i> , 2019, 103, 473-488.e6.	3.8	135
28	Scalable volumetric imaging for ultrahigh-speed brain mapping at synaptic resolution. <i>National Science Review</i> , 2019, 6, 982-992.	4.6	38
29	Postsynaptic protein organization revealed by electron microscopy. <i>Current Opinion in Structural Biology</i> , 2019, 54, 152-160.	2.6	27
30	Responsibility and Sustainability in Brain Science, Technology, and Neuroethics in China—a Culture-Oriented Perspective. <i>Neuron</i> , 2019, 101, 375-379.	3.8	9
31	Atomic structure of the human herpesvirus 6B capsid and capsid-associated tegument complexes. <i>Nature Communications</i> , 2019, 10, 5346.	5.8	16
32	Ultrafast Two-Photon Imaging of a High-Gain Voltage Indicator in Awake Behaving Mice. <i>Cell</i> , 2019, 179, 1590-1608.e23.	13.5	242
33	Molecular basis for CENP-N recognition of CENP-A nucleosome on the human kinetochore. <i>Cell Research</i> , 2018, 28, 374-378.	5.7	65
34	Differentiation and Characterization of Excitatory and Inhibitory Synapses by Cryo-electron Tomography and Correlative Microscopy. <i>Journal of Neuroscience</i> , 2018, 38, 1493-1510.	1.7	136
35	Electrically Controlled Neurochemical Release from Dual-Layer Conducting Polymer Films for Precise Modulation of Neural Network Activity in Rat Barrel Cortex. <i>Advanced Functional Materials</i> , 2018, 28, 1703988.	7.8	30
36	Correlative light and electron microscopy for complex cellular structures on PDMS substrates with coded micro-patterns. <i>Lab on A Chip</i> , 2018, 18, 3840-3848.	3.1	4

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37	Different functional states of fusion protein gB revealed on human cytomegalovirus by cryo electron tomography with Volta phase plate. <i>PLoS Pathogens</i> , 2018, 14, e1007452.	2.1	80
38	Neuroethics Questions to Guide Ethical Research in the International Brain Initiatives. <i>Neuron</i> , 2018, 100, 19-36.	3.8	104
39	Corticosterone Signaling and a Lateral Habenula-Ventral Tegmental Area Circuit Modulate Compulsive Self-Injurious Behavior in a Rat Model. <i>Journal of Neuroscience</i> , 2018, 38, 5251-5266.	1.7	6
40	Excitation wavelength optimization improves photostability of ASAP-family GEVIs. <i>Molecular Brain</i> , 2018, 11, 32.	1.3	13
41	Accumulation of Dense Core Vesicles in Hippocampal Synapses Following Chronic Inactivity. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 48.	0.9	20
42	Cryo-EM structure of the human γ -5 β 3 GABAA receptor. <i>Cell Research</i> , 2018, 28, 958-961.	5.7	21
43	Chemical Synthesis of K34-Ubiquitylated H2B for Nucleosome Reconstitution and Single-Particle Cryo-Electron Microscopy Structural Analysis. <i>ChemBioChem</i> , 2017, 18, 176-180.	1.3	38
44	Dendritic mitoflash as a putative signal for stabilizing long-term synaptic plasticity. <i>Nature Communications</i> , 2017, 8, 31.	5.8	50
45	Four ethical priorities for neurotechnologies and AI. <i>Nature</i> , 2017, 551, 159-163.	13.7	267
46	A pUL25 dimer interfaces the pseudorabies virus capsid and tegument. <i>Journal of General Virology</i> , 2017, 98, 2837-2849.	1.3	27
47	A dynamical state underlying the second order maximum entropy principle in neuronal networks. <i>Communications in Mathematical Sciences</i> , 2017, 15, 665-692.	0.5	6
48	Versatile Room-Temperature-Phosphorescent Materials Prepared from N-Substituted Naphthalimides: Emission Enhancement and Chemical Conjugation. <i>Angewandte Chemie</i> , 2016, 128, 10026-10030.	1.6	75
49	Versatile Room-Temperature-Phosphorescent Materials Prepared from N-Substituted Naphthalimides: Emission Enhancement and Chemical Conjugation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9872-9876.	7.2	343
50	Small quinolinium-based enzymatic probes via blue-to-red ratiometric fluorescence. <i>Analyst</i> , The, 2016, 141, 1483-1487.	1.7	15
51	Direct detection of optogenetically evoked oscillatory neuronal electrical activity in rats using SLOE sequence. <i>NeuroImage</i> , 2016, 125, 533-543.	2.1	13
52	Processing of visually evoked innate fear by a non-canonical thalamic pathway. <i>Nature Communications</i> , 2015, 6, 6756.	5.8	260
53	Cumulative effects of the ApoE genotype and gender on the synaptic proteome and oxidative stress in the mouse brain. <i>International Journal of Neuropsychopharmacology</i> , 2014, 17, 1863-1879.	1.0	28
54	Homeostatic regulation of spontaneous and evoked synaptic transmission in two steps. <i>Molecular Brain</i> , 2013, 6, 38.	1.3	13

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55	Cryo-EM structure of the mature dengue virus at 3.5-Å... resolution. Nature Structural and Molecular Biology, 2013, 20, 105-110.	3.6	372
56	Highly Fluorescent Dye-Aggregate-Enhanced Energy-Transfer Nanoparticles for Neuronal Cell Imaging. Advanced Optical Materials, 2013, 1, 549-553.	3.6	19
57	Ultrastructural analysis of neuronal synapses using state-of-the-art nano-imaging techniques. Neuroscience Bulletin, 2012, 28, 321-332.	1.5	12
58	Measuring action potential-evoked transmission at individual synaptic contacts. Journal of Neural Engineering, 2012, 9, 036014.	1.8	1
59	Super-resolution fluorescence imaging of organelles in live cells with photoswitchable membrane probes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13978-13983.	3.3	439
60	Ring-shaped neuronal networks: a platform to study persistent activity. Lab on A Chip, 2011, 11, 1081.	3.1	19
61	Temporal modulation of spike-timing-dependent plasticity. Frontiers in Synaptic Neuroscience, 2010, 2, 19.	1.3	57
62	A Phenomenological Calcium-Based Model of STDP. , 2010, , 571-591.		4
63	Gain in sensitivity and loss in temporal contrast of STDP by dopaminergic modulation at hippocampal synapses. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13028-13033.	3.3	187
64	Reverberatory activity in neuronal networks in vitro. Science Bulletin, 2009, 54, 1828-1835.	4.3	4
65	Reverberatory Activity in Neuronal Networks. , 2009, , 61-75.		0
66	Calcium and synaptic dynamics underlying reverberatory activity in neuronal networks. Physical Biology, 2007, 4, 91-103.	0.8	33
67	Modular Competition Driven by NMDA Receptor Subtypes in Spike-Timing-Dependent Plasticity. Journal of Neurophysiology, 2007, 97, 2851-2862.	0.9	42
68	Coactivation and timing-dependent integration of synaptic potentiation and depression. Nature Neuroscience, 2005, 8, 187-193.	7.1	262
69	Calcium Time Course as a Signal for Spike-Timing-Dependent Plasticity. Journal of Neurophysiology, 2005, 93, 2600-2613.	0.9	156
70	Synaptic mechanisms of persistent reverberatory activity in neuronal networks. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10333-10338.	3.3	129
71	Timing in synaptic plasticity: from detection to integration. Trends in Neurosciences, 2005, 28, 222-228.	4.2	60
72	Probing Vesicle Dynamics in Single Hippocampal Synapses. Biophysical Journal, 2005, 89, 3615-3627.	0.2	55

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73	Temporal asymmetry in spike timing-dependent synaptic plasticity. <i>Physiology and Behavior</i> , 2002, 77, 551-555.	1.0	47
74	Synaptic modification in neural circuits: A timely action. <i>BioEssays</i> , 2002, 24, 212-222.	1.2	22
75	Spatiotemporal specificity of synaptic plasticity: cellular rules and mechanisms. <i>Biological Cybernetics</i> , 2002, 87, 319-332.	0.6	69
76	Synaptic Modification by Correlated Activity: Hebb's Postulate Revisited. <i>Annual Review of Neuroscience</i> , 2001, 24, 139-166.	5.0	1,322
77	Stable Hebbian Learning from Spike Timing-Dependent Plasticity. <i>Journal of Neuroscience</i> , 2000, 20, 8812-8821.	1.7	657
78	Axon formation: a molecular model for the generation of neuronal polarity. <i>BioEssays</i> , 2000, 22, 172-179.	1.2	82
79	Selective Presynaptic Propagation of Long-Term Potentiation in Defined Neural Networks. <i>Journal of Neuroscience</i> , 2000, 20, 3233-3243.	1.7	74
80	Distributed synaptic modification in neural networks induced by patterned stimulation. <i>Nature</i> , 1999, 401, 792-796.	13.7	227
81	Synaptic Modifications in Cultured Hippocampal Neurons: Dependence on Spike Timing, Synaptic Strength, and Postsynaptic Cell Type. <i>Journal of Neuroscience</i> , 1998, 18, 10464-10472.	1.7	3,916
82	Kinesin- and Myosin-driven Steps of Vesicle Recruitment for Ca ²⁺ -regulated Exocytosis. <i>Journal of Cell Biology</i> , 1997, 138, 999-1008.	2.3	203
83	Calcium-regulated exocytosis is required for cell membrane resealing.. <i>Journal of Cell Biology</i> , 1995, 131, 1747-1758.	2.3	266
84	Cell membrane resealing by a vesicular mechanism similar to neurotransmitter release. <i>Science</i> , 1994, 263, 390-393.	6.0	480