Quanguang Zhang

List of Publications by Year
in descending order

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52	2,507	159358	205818
papers	citations	30 h-index	48 g-index

53	53	53	3067
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Brain-derived estrogen and neural function. Neuroscience and Biobehavioral Reviews, 2022, 132, 793-817.	2.9	41
2	Non-invasive photobiomodulation treatment in an Alzheimer Disease-like transgenic rat model. Theranostics, 2022, 12, 2205-2231.	4.6	37
3	Long-term exercise pre-training attenuates Alzheimerâ€™s diseaseâ€“related pathology in a transgenic rat model of Alzheimerâ€™s disease. GeroScience, 2022, 44, 1457-1477.	2.1	24
4	Photobiomodulation prevents PTSD-like memory impairments in rats. Molecular Psychiatry, 2021, 26, 6666-6679.	4.1	17
5	Transcranial photobiomodulation prevents PTSD-like comorbidities in rats experiencing underwater trauma. Translational Psychiatry, 2021, 11, 270.	2.4	12
6	Vasopressin Signaling Buffers Synaptic Metaplasticity in a Sex-specific Manner. Neuroscience Bulletin, 2021, 37, 1377-1380.	1.5	1
7	Photobiomodulation has rejuvenating effects on aged bone marrow mesenchymal stem cells. Scientific Reports, 2021, 11, 13067.	1.6	10
8	Photobiomodulation Therapy Attenuates Anxious-Depressive-Like Behavior in the TgF344 Rat Model. Journal of Alzheimer's Disease, 2021, 83, 1415-1429.	1.2	20
9	Ganglioside GD3 is upâ€regulated in microglia and regulates phagocytosis following global cerebral ischemia. Journal of Neurochemistry, 2021, 158, 737-752.	2.1	9
10	Effects of prenatal photobiomodulation treatment on neonatal hypoxic ischemia in rat offspring. Theranostics, 2021, 11, 1269-1294.	4.6	30
11	Neuron-Derived Estrogenâ€”A Key Neuromodulator in Synaptic Function and Memory. International Journal of Molecular Sciences, 2021, 22, 13242.	1.8	12
12	Beneficial Effects of Theta-Burst Transcranial Magnetic Stimulation on Stroke Injury via Improving Neuronal Microenvironment and Mitochondrial Integrity. Translational Stroke Research, 2020, 11, 450-467.	2.3	49
13	Photobiomodulation therapy for repeated closed head injury in rats. Journal of Biophotonics, 2020, 13, e201960117.	1.1	14
14	Aerobic exercise attenuates neurodegeneration and promotes functional recovery â€“ Why it matters for neurorehabilitation & neural repair. Neurochemistry International, 2020, 141, 104862.	1.9	8
15	Theta-burst transcranial magnetic stimulation promotes stroke recovery by vascular protection and neovascularization. Theranostics, 2020, 10, 12090-12110.	4.6	57
16	Neuron-Derived Estrogen Is Critical for Astrocyte Activation and Neuroprotection of the Ischemic Brain. Journal of Neuroscience, 2020, 40, 7355-7374.	1.7	63
17	Mitochondria as a target for neuroprotection: role of methylene blue and photobiomodulation. Translational Neurodegeneration, 2020, 9, 19.	3.6	63
18	Methylene blue post-treatment improves hypoxia-ischemic recovery in a neonatal rat model. Neurochemistry International, 2020, 139, 104782.	1.9	5

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19	Effects of Exercise Training on Anxiousâ€“Depressive-like Behavior in Alzheimer Rat. Medicine and Science in Sports and Exercise, 2020, 52, 1456-1469.	0.2	67
20	G-protein-coupled estrogen receptor activation upregulates interleukin-1 receptor antagonist in the hippocampus after global cerebral ischemia: implications for neuronal self-defense. Journal of Neuroinflammation, 2020, 17, 45.	3.1	42
21	Hypoxia promotes tau hyperphosphorylation with associated neuropathology in vascular dysfunction. Neurobiology of Disease, 2019, 126, 124-136.	2.1	53
22	Photobiomodulation for Global Cerebral Ischemia: Targeting Mitochondrial Dynamics and Functions. Molecular Neurobiology, 2019, 56, 1852-1869.	1.9	49
23	Photobiomodulation in photothrombotic stroke. , 2019, , 125-138.		0
24	Expression of aromatase and synthesis of sex steroid hormones in skeletal muscle following exercise training in ovariectomized rats. Steroids, 2019, 143, 91-96.	0.8	13
25	Neuron-Derived Estrogen Regulates Synaptic Plasticity and Memory. Journal of Neuroscience, 2019, 39, 2792-2809.	1.7	133
26	Photobiomodulation preconditioning prevents cognitive impairment in a neonatal rat model of hypoxiaâ€ischemia. Journal of Biophotonics, 2019, 12, e201800359.	1.1	32
27	Tert-butylhydroquinone post-treatment attenuates neonatal hypoxic-ischemic brain damage in rats. Neurochemistry International, 2018, 116, 1-12.	1.9	31
28	Combination Treatment with Methylene Blue and Hypothermia in Global Cerebral Ischemia. Molecular Neurobiology, 2018, 55, 2042-2055.	1.9	21
29	Photobiomodulation therapy promotes neurogenesis by improving post-stroke local microenvironment and stimulating neuroprogenitor cells. Experimental Neurology, 2018, 299, 86-96.	2.0	96
30	From Mitochondrial Function to Neuroprotectionâ€”an Emerging Role for Methylene Blue. Molecular Neurobiology, 2018, 55, 5137-5153.	1.9	97
31	Beneficial Effects of Exercise Pretreatment in a Sporadic Alzheimerâ€™s Rat Model. Medicine and Science in Sports and Exercise, 2018, 50, 945-956.	0.2	69
32	After Treatment with Methylene Blue is Effective against Delayed Encephalopathy after Acute Carbon Monoxide Poisoning. Basic and Clinical Pharmacology and Toxicology, 2018, 122, 470-480.	1.2	15
33	Photobiomodulation Therapy Attenuates Hypoxic-Ischemic Injury in a Neonatal Rat Model. Journal of Molecular Neuroscience, 2018, 65, 514-526.	1.1	39
34	Low-Level Laser Irradiation Improves Depression-Like Behaviors in Mice. Molecular Neurobiology, 2017, 54, 4551-4559.	1.9	61
35	NADPH oxidase in brain injury and neurodegenerative disorders. Molecular Neurodegeneration, 2017, 12, 7.	4.4	314
36	Low-level laser therapy for beta amyloid toxicity in rat hippocampus. Neurobiology of Aging, 2017, 49, 165-182.	1.5	111

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37	Protective Effect of 17Î²-Estradiol Upon Hippocampal Spine Density and Cognitive Function in an Animal Model of Vascular Dementia. Scientific Reports, 2017, 7, 42660.	1.6	46
38	Treadmill Exercise Exerts Neuroprotection and Regulates Microglial Polarization and Oxidative Stress in a Streptozotocin-Induced Rat Model of Sporadic Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2017, 56, 1469-1484.	1.2	150
39	Intranasal Delivery of a Caspase-1 Inhibitor in the Treatment of Global Cerebral Ischemia. Molecular Neurobiology, 2017, 54, 4936-4952.	1.9	35
40	Beneficial Effects of a CaMKIIÎ± Inhibitor TatCN21 Peptide in Global Cerebral Ischemia. Journal of Molecular Neuroscience, 2017, 61, 42-51.	1.1	29
41	NLRP3 Inflammasome Activation in the Brain after Global Cerebral Ischemia and Regulation by 17Î²-Estradiol. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-17.	1.9	64
42	Methylene Blue promotes cortical neurogenesis and ameliorates behavioral deficit after photothrombotic stroke in rats. Neuroscience, 2016, 336, 39-48.	1.1	35
43	Neuroprotective and Functional Improvement Effects of Methylene Blue in Global Cerebral Ischemia. Molecular Neurobiology, 2016, 53, 5344-5355.	1.9	45
44	Mitochondrial Targeted Antioxidant in Cerebral Ischemia. Journal of Neurology and Neuroscience, 2015, 06, .	0.4	26
45	Cell-Permeable Peptide Targeting the Nrf2â€“Keap1 Interaction: A Potential Novel Therapy for Global Cerebral Ischemia. Journal of Neuroscience, 2015, 35, 14727-14739.	1.7	74
46	Proline-, glutamic acid-, and leucine-rich protein 1 mediates estrogen rapid signaling and neuroprotection in the brain. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6673-82.	3.3	33
47	Attenuation of mitochondrial and nuclear p38Î± signaling: A novel mechanism of estrogen neuroprotection in cerebral ischemia. Molecular and Cellular Endocrinology, 2015, 400, 21-31.	1.6	32
48	Role of Mitochondria in Neonatal Hypoxic-Ischemic Brain Injury. Journal of Neuroscience and Rehabilitation, 2015, 2, 1-14.	0.1	12
49	Reprint of â€GPR30 mediates estrogen rapid signaling and neuroprotectionâ€. Molecular and Cellular Endocrinology, 2014, 389, 92-98.	1.6	29
50	GPR30 mediates estrogen rapid signaling and neuroprotection. Molecular and Cellular Endocrinology, 2014, 387, 52-58.	1.6	111
51	Preservation of GABA_AReceptor Function by PTEN Inhibition Protects Against Neuronal Death in Ischemic Stroke. Stroke, 2010, 41, 1018-1026.	1.0	64
52	Delayed activation and regulation of MKK7 in hippocampal CA1 region following global cerebral ischemia in rats. Life Sciences, 2003, 74, 37-45.	2.0	7