

Cai Zhang

List of Publications by Year in descending order

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70
papers

4,371
citations

101384

36
h-index

110170

64
g-index

70
all docs

70
docs citations

70
times ranked

6299
citing authors

#	ARTICLE	IF	CITATIONS
1	Neurobiology of rodent self-grooming and its value for translational neuroscience. <i>Nature Reviews Neuroscience</i> , 2016, 17, 45-59.	4.9	558
2	Depression and sickness behavior are Janus-faced responses to shared inflammatory pathways. <i>BMC Medicine</i> , 2012, 10, 66.	2.3	479
3	Cytokines mediated inflammation and decreased neurogenesis in animal models of depression. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011, 35, 760-768.	2.5	243
4	Comparative Analyses of Zebrafish Anxiety-Like Behavior Using Conflict-Based Novelty Tests. <i>Zebrafish</i> , 2017, 14, 197-208.	0.5	169
5	Increased Phospholipase A2 Activity and Inflammatory Response But Decreased Nerve Growth Factor Expression in the Olfactory Bulbectomized Rat Model of Depression: Effects of Chronic Ethyl-Eicosapentaenoate Treatment. <i>Journal of Neuroscience</i> , 2009, 29, 14-22.	1.7	162
6	The role of omega-3 polyunsaturated fatty acids eicosapentaenoic and docosahexaenoic acids in the treatment of major depression and Alzheimer's disease: Acting separately or synergistically?. <i>Progress in Lipid Research</i> , 2016, 62, 41-54.	5.3	146
7	Effects of dietary n-3 or n-6 fatty acids on interleukin-1 β -induced anxiety, stress, and inflammatory responses in rats. <i>Journal of Lipid Research</i> , 2003, 44, 1984-1991.	2.0	144
8	Zebrafish neurobehavioral phenomics for aquatic neuropharmacology and toxicology research. <i>Aquatic Toxicology</i> , 2016, 170, 297-309.	1.9	106
9	Minocycline ameliorates depressive behaviors and neuro-immune dysfunction induced by chronic unpredictable mild stress in the rat. <i>Behavioural Brain Research</i> , 2019, 356, 348-357.	1.2	104
10	Zebrafish models of autism spectrum disorder. <i>Experimental Neurology</i> , 2018, 299, 207-216.	2.0	103
11	Psychosocial stress on neuroinflammation and cognitive dysfunctions in Alzheimer's disease: the emerging role for microglia?. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 77, 148-164.	2.9	101
12	Acute and subacute IL-1 β administrations differentially modulate neuroimmune and neurotrophic systems: possible implications for neuroprotection and neurodegeneration. <i>Journal of Neuroinflammation</i> , 2013, 10, 59.	3.1	99
13	Omega-3 fatty acid ethyl-eicosapentaenoate, but not soybean oil, attenuates memory impairment induced by central IL-1 β administration. <i>Journal of Lipid Research</i> , 2004, 45, 1112-1121.	2.0	97
14	Long-Chain Polyunsaturated Fatty Acids Modulate Interleukin-1 β -Induced Changes in Behavior, Monoaminergic Neurotransmitters, and Brain Inflammation in Rats. <i>Journal of Nutrition</i> , 2008, 138, 954-963.	1.3	90
15	Reductions of acetylcholine release and nerve growth factor expression are correlated with memory impairment induced by interleukin-1 β administrations: effects of omega-3 fatty acid EPA treatment. <i>Journal of Neurochemistry</i> , 2010, 112, 1054-1064.	2.1	85
16	Modeling consequences of prolonged strong unpredictable stress in zebrafish: Complex effects on behavior and physiology. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 81, 384-394.	2.5	77
17	EPA is More Effective than DHA to Improve Depression-Like Behavior, Glia Cell Dysfunction and Hippocampal Apoptosis Signaling in a Chronic Stress-Induced Rat Model of Depression. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1769.	1.8	77
18	A novel 3D method of locomotor analysis in adult zebrafish: Implications for automated detection of CNS drug-evoked phenotypes. <i>Journal of Neuroscience Methods</i> , 2015, 255, 66-74.	1.3	71

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19	Dietary Ethyl-eicosapentaenoic Acid but not Soybean Oil Reverses Central Interleukin-1-induced Changes in Behavior, Corticosterone and Immune Response in Rats. <i>Stress</i> , 2004, 7, 43-54.	0.8	66
20	Understanding autism and other neurodevelopmental disorders through experimental translational neurobehavioral models. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 65, 292-312.	2.9	63
21	Dietary eicosapentaenoic acid normalizes hippocampal omega-3 and 6 polyunsaturated fatty acid profile, attenuates glial activation and regulates BDNF function in a rodent model of neuroinflammation induced by central interleukin-1 β administration. <i>European Journal of Nutrition</i> , 2018, 57, 1781-1791.	1.8	62
22	Interleukin 1 beta enhances conditioned fear memory in rats: possible involvement of glucocorticoids. <i>European Journal of Neuroscience</i> , 2003, 18, 1739-1743.	1.2	60
23	Animal inflammation-based models of depression and their application to drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2017, 12, 995-1009.	2.5	57
24	The effect of thymectomy and IL-1 on memory: Implications for the relationship between immunity and depression. <i>Brain, Behavior, and Immunity</i> , 2002, 16, 557-568.	2.0	51
25	Endogenous Omega (n)-3 Fatty Acids in Fat-1 Mice Attenuated Depression-Like Behavior, Imbalance between Microglial M1 and M2 Phenotypes, and Dysfunction of Neurotrophins Induced by Lipopolysaccharide Administration. <i>Nutrients</i> , 2018, 10, 1351.	1.7	51
26	Targeting dynamic interplay among disordered domains or endophenotypes to understand complex neuropsychiatric disorders: Translational lessons from preclinical models. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 53, 25-36.	2.9	50
27	Seahorse treatment improves depression-like behavior in mice exposed to CUMS through reducing inflammation/oxidants and restoring neurotransmitter and neurotrophin function. <i>Journal of Ethnopharmacology</i> , 2020, 250, 112487.	2.0	50
28	Application of Chitosan, Chitoooligosaccharide, and Their Derivatives in the Treatment of Alzheimer's Disease. <i>Marine Drugs</i> , 2017, 15, 322.	2.2	48
29	Zebrafish models relevant to studying central opioid and endocannabinoid systems. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 86, 301-312.	2.5	48
30	Minocycline ameliorates anxiety-related self-grooming behaviors and alters hippocampal neuroinflammation, GABA and serum cholesterol levels in female Sprague-Dawley rats subjected to chronic unpredictable mild stress. <i>Behavioural Brain Research</i> , 2019, 363, 109-117.	1.2	47
31	Genetic and environmental modulation of neurodevelopmental disorders: Translational insights from labs to beds. <i>Brain Research Bulletin</i> , 2016, 125, 79-91.	1.4	43
32	Zebrafish models for personalized psychiatry: Insights from individual, strain and sex differences, and modeling gene x environment interactions. <i>Journal of Neuroscience Research</i> , 2019, 97, 402-413.	1.3	43
33	Building Zebrafish Neurobehavioral Phenomics: Effects of Common Environmental Factors on Anxiety and Locomotor Activity. <i>Zebrafish</i> , 2015, 12, 339-348.	0.5	40
34	Toward Omics-Based, Systems Biomedicine, and Path and Drug Discovery Methodologies for Depression-Inflammation Research. <i>Molecular Neurobiology</i> , 2016, 53, 2927-2935.	1.9	40
35	Understanding zebrafish cognition. <i>Behavioural Processes</i> , 2017, 141, 229-241.	0.5	40
36	N -methyl- d -aspartate receptor-mediated calcium overload and endoplasmic reticulum stress are involved in interleukin-1beta-induced neuronal apoptosis in rat hippocampus. <i>Journal of Neuroimmunology</i> , 2017, 307, 7-13.	1.1	40

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37	Ω-3 DPA Protected Neurons from Neuroinflammation by Balancing Microglia M1/M2 Polarizations through Inhibiting NF-κB/MAPK p38 Signaling and Activating Neuron-BDNF-PI3K/AKT Pathways. <i>Marine Drugs</i> , 2021, 19, 587.	2.2	40
38	Ethyl-eicosapentaenoate modulates changes in neurochemistry and brain lipids induced by parkinsonian neurotoxin 1-methyl-4-phenylpyridinium in mouse brain slices. <i>European Journal of Pharmacology</i> , 2010, 649, 127-134.	1.7	39
39	'Stressing' rodent self-grooming for neuroscience research. <i>Nature Reviews Neuroscience</i> , 2016, 17, 591-591.	4.9	38
40	Mifepristone attenuates depression-like changes induced by chronic central administration of interleukin-1β in rats. <i>Behavioural Brain Research</i> , 2018, 347, 436-445.	1.2	33
41	High-glucose/high-cholesterol diet in zebrafish evokes diabetic and affective pathogenesis: The role of peripheral and central inflammation, microglia and apoptosis. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 96, 109752.	2.5	33
42	Platycodigenin as Potential Drug Candidate for Alzheimer's Disease via Modulating Microglial Polarization and Neurite Regeneration. <i>Molecules</i> , 2019, 24, 3207.	1.7	28
43	DHA, EPA and their combination at various ratios differently modulated Aβ ₂₅₋₃₅ -induced neurotoxicity in SH-SY5Y cells. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2018, 136, 85-94.	1.0	27
44	The role of intraspecies variation in fish neurobehavioral and neuropharmacological phenotypes in aquatic models. <i>Aquatic Toxicology</i> , 2019, 210, 44-55.	1.9	27
45	Enhanced inflammatory and T-helper-1 type responses but suppressed lymphocyte proliferation in patients with seasonal affective disorder and treated by light therapy. <i>Journal of Affective Disorders</i> , 2015, 185, 90-96.	2.0	24
46	Potential treatment of Parkinson's disease with omega-3 polyunsaturated fatty acids. <i>Nutritional Neuroscience</i> , 2020, , 1-12.	1.5	21
47	The Role of E-Cadherin/β-Catenin in Hydroxysafflor Yellow A Inhibiting Adhesion, Invasion, Migration and Lung Metastasis of Hepatoma Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2017, 40, 1706-1715.	0.6	18
48	An Extract from Shrimp Processing By-Products Protects SH-SY5Y Cells from Neurotoxicity Induced by Aβ ₂₅₋₃₅ . <i>Marine Drugs</i> , 2017, 15, 83.	2.2	18
49	Zebrafish models of diabetes-related CNS pathogenesis. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 92, 48-58.	2.5	18
50	Delayed behavioral and genomic responses to acute combined stress in zebrafish, potentially relevant to PTSD and other stress-related disorders: Focus on neuroglia, neuroinflammation, apoptosis and epigenetic modulation. <i>Behavioural Brain Research</i> , 2020, 389, 112644.	1.2	18
51	Improving treatment of neurodevelopmental disorders: recommendations based on preclinical studies. <i>Expert Opinion on Drug Discovery</i> , 2016, 11, 11-25.	2.5	16
52	Building neurophenomics in zebrafish: Effects of prior testing stress and test batteries. <i>Behavioural Brain Research</i> , 2016, 311, 24-30.	1.2	15
53	Wen-Dan Decoction Improves Negative Emotions in Sleep-Deprived Rats by Regulating Orexin-A and Leptin Expression. <i>Evidence-based Complementary and Alternative Medicine</i> , 2014, 2014, 1-10.	0.5	14
54	Better lab animal models for translational neuroscience research and CNS drug development. <i>Lab Animal</i> , 2017, 46, 91-92.	0.2	14

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55	Activation of microglia synergistically enhances neurodegeneration caused by MPP+ in human SH-SY5Y cells. <i>European Journal of Pharmacology</i> , 2019, 850, 64-74.	1.7	14
56	Animal models of major depressive disorder and the implications for drug discovery and development. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 365-378.	2.5	14
57	Marine fungal metabolite butyrolactone I prevents cognitive deficits by relieving inflammation and intestinal microbiota imbalance on aluminum trichloride-injured zebrafish. <i>Journal of Neuroinflammation</i> , 2022, 19, 39.	3.1	12
58	Enriched environment mitigates depressive behavior by changing the inflammatory activation phenotype of microglia in the hippocampus of depression model rats. <i>Brain Research Bulletin</i> , 2021, 177, 252-262.	1.4	10
59	Astrocyte-Conditioned Medium Protects Prefrontal Cortical Neurons from Glutamate-Induced Cell Death by Inhibiting TNF- α Expression. <i>NeuroImmunoModulation</i> , 2019, 26, 33-42.	0.9	9
60	Cross-species Analyses of Intra-species Behavioral Differences in Mammals and Fish. <i>Neuroscience</i> , 2020, 429, 33-45.	1.1	9
61	Decoding the role of zebrafish neuroglia in CNS disease modeling. <i>Brain Research Bulletin</i> , 2021, 166, 44-53.	1.4	9
62	Isoginkgetin treatment attenuated lipopolysaccharide-induced monoamine neurotransmitter deficiency and depression-like behaviors through downregulating p38/NF- κ B signaling pathway and suppressing microglia-induced apoptosis. <i>Journal of Psychopharmacology</i> , 2021, 35, 026988112110324.	2.0	8
63	Endogenous ω -3 fatty acids in Fat-1 mice attenuated depression-like behaviors, spatial memory impairment and relevant changes induced by olfactory bulbectomy. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2021, 171, 102313.	1.0	8
64	The Emerging Evidence for a Protective Role of Fucoidan from <i>Laminaria japonica</i> in Chronic Kidney Disease-Triggered Cognitive Dysfunction. <i>Marine Drugs</i> , 2022, 20, 258.	2.2	8
65	Heterophyllin B, a cyclopeptide from <i>Pseudostellaria heterophylla</i> , enhances cognitive function via neurite outgrowth and synaptic plasticity. <i>Phytotherapy Research</i> , 2021, 35, 5318-5329.	2.8	5
66	Endogenous n-3 PUFAs attenuated olfactory bulbectomy-induced behavioral and metabolomic abnormalities in Fat-1 mice. <i>Brain, Behavior, and Immunity</i> , 2021, 96, 143-153.	2.0	4
67	Targeting drug sensitivity predictors: New potential strategies to improve pharmacotherapy of human brain disorders. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2015, 63, 76-82.	2.5	3
68	Hederagenin Modulates M1 Microglial Inflammatory Responses and Neurite Outgrowth. <i>Natural Product Communications</i> , 2020, 15, 1934578X2094625.	0.2	3
69	Understanding the genetic architectonics of complex CNS traits: Lost by the association, but found in the interaction?. <i>Journal of Psychopharmacology</i> , 2015, 29, 872-877.	2.0	2
70	Interleukin-10 Attenuates Behavioral, Immune and Neurotrophin Changes Induced by Chronic Central Administration of Interleukin-1 β in Rats. <i>NeuroImmunoModulation</i> , 2022, 29, 380-390.	0.9	2