Zhentao Zhang

List of Publications by Year
in descending order

93 papers	3,916 citations	109321 35 h-index	138484 58 g-index
97 all docs	97 docs citations	97 times ranked	4932 citing authors

#	Article	IF	Citations
1	Cleavage of tau by asparagine endopeptidase mediates the neurofibrillary pathology in Alzheimer's disease. Nature Medicine, 2014, 20, 1254-1262.	30.7	367
2	Delta-secretase cleaves amyloid precursor protein and regulates the pathogenesis in Alzheimerâ€™s disease. Nature Communications, 2015, 6, 8762.	12.8	210
3	7,8-Dihydroxyflavone Prevents Synaptic Loss and Memory Deficits in a Mouse Model of Alzheimerâ€™s Disease. Neuropsychopharmacology, 2014, 39, 638-650.	5.4	198
4	Asparagine endopeptidase cleaves Î±-synuclein and mediates pathologic activities in Parkinson's disease. Nature Structural and Molecular Biology, 2017, 24, 632-642.	8.2	159
5	The prodrug of 7,8-dihydroxyflavone development and therapeutic efficacy for treating Alzheimerâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 578-583.	7.1	123
6	Longitudinal Change of Severe Acute Respiratory Syndrome Coronavirus 2 Antibodies in Patients with Coronavirus Disease 2019. Journal of Infectious Diseases, 2020, 222, 183-188.	4.0	118
7	The role of genetics in Parkinsonâ€™s disease: a large cohort study in Chinese mainland population. Brain, 2020, 143, 2220-2234.	7.6	97
8	Inhibition of delta-secretase improves cognitive functions in mouse models of Alzheimerâ€™s disease. Nature Communications, 2017, 8, 14740.	12.8	96
9	Stereotaxical Infusion of Rotenone: A Reliable Rodent Model for Parkinson's Disease. PLoS ONE, 2009, 4, e7878.	2.5	94
10	Cholesterol Metabolism in Neurodegenerative Diseases: Molecular Mechanisms and Therapeutic Targets. Molecular Neurobiology, 2021, 58, 2183-2201.	4.0	93
11	Dl-3-n-butylphthalide, a natural antioxidant, protects dopamine neurons in rotenone models for Parkinson's disease. Neurobiology of Aging, 2012, 33, 1777-1791.	3.1	92
12	TrkB neurotrophic activities are blocked by Î±-synuclein, triggering dopaminergic cell death in Parkinsonâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10773-10778.	7.1	91
13	C/EBPÎ² regulates delta-secretase expression and mediates pathogenesis in mouse models of Alzheimerâ€™s disease. Nature Communications, 2018, 9, 1784.	12.8	91
14	The role of autophagy in Parkinson's disease: rotenone-based modeling. Behavioral and Brain Functions, 2013, 9, 13.	3.3	85
15	The Early Events That Initiate Î²-Amyloid Aggregation in Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2018, 10, 359.	3.4	85
16	Î±â€Synuclein stimulation of monoamine oxidaseâ€B and legumain protease mediates the pathology of Parkinson's disease. EMBO Journal, 2018, 37, .	7.8	73
17	Initiation of Parkinsonâ€™s disease from gut to brain by Î´-secretase. Cell Research, 2020, 30, 70-87.	12.0	69
18	Exosome-mediated delivery of antisense oligonucleotides targeting Î±-synuclein ameliorates the pathology in a mouse model of Parkinson's disease. Neurobiology of Disease, 2021, 148, 105218.	4.4	69

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19	Cerebrospinal fluid tau fragment correlates with tau PET: a candidate biomarker for tangle pathology. Brain, 2020, 143, 650-660.	7.6	68
20	VX-765 attenuates atherosclerosis in ApoE deficient mice by modulating VSMCs pyroptosis. Experimental Cell Research, 2020, 389, 111847.	2.6	68
21	Î´-secretase in neurodegenerative diseases: mechanisms, regulators and therapeutic opportunities. Translational Neurodegeneration, 2020, 9, 1.	8.0	60
22	Edaravone Guards Dopamine Neurons in a Rotenone Model for Parkinson's Disease. PLoS ONE, 2011, 6, e20677.	2.5	59
23	Exosomes from patients with Parkinsonâ€™s disease are pathological in mice. Journal of Molecular Medicine, 2019, 97, 1329-1344.	3.9	58
24	Reactive microglia enhance the transmission of exosomal Î±-synuclein via toll-like receptor 2. Brain, 2021, 144, 2024-2037.	7.6	57
25	TREM2 ectodomain and its soluble form in Alzheimerâ€™s disease. Journal of Neuroinflammation, 2020, 17, 204.	7.2	55
26	Small molecule TrkB agonist deoxygedunin protects nigrostriatal dopaminergic neurons from 6-OHDA and MPTP induced neurotoxicity in rodents. Neuropharmacology, 2015, 99, 448-458.	4.1	54
27	Î´-Secretase-cleaved Tau stimulates AÎ² production via upregulating STAT1-BACE1 signaling in Alzheimerâ€™s disease. Molecular Psychiatry, 2021, 26, 586-603.	7.9	54
28	Traumatic brain injury triggers APP and Tau cleavage by delta-secretase, mediating Alzheimerâ€™s disease pathology. Progress in Neurobiology, 2020, 185, 101730.	5.7	49
29	Activation of BDNF by transcription factor Nrf2 contributes to antidepressant-like actions in rodents. Translational Psychiatry, 2021, 11, 140.	4.8	49
30	Long-Term Efficacy and Safety of Human Umbilical Cord Mesenchymal Stromal Cells in Rotenone-Induced Hemiparkinsonian Rats. Biology of Blood and Marrow Transplantation, 2010, 16, 1519-1529.	2.0	48
31	Tau in the Pathophysiology of Parkinsonâ€™s Disease. Journal of Molecular Neuroscience, 2021, 71, 2179-2191.	2.3	47
32	Effectiveness of Traditional Chinese Medicine as an Adjunct Therapy for Parkinsonâ€™s Disease: A Systematic Review and Meta-Analysis. PLoS ONE, 2015, 10, e0118498.	2.5	45
33	Î±-Synuclein binds and sequesters PIKE-L into Lewy bodies, triggering dopaminergic cell death via AMPK hyperactivation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1183-1188.	7.1	44
34	Hydroxychloroquine and chloroquine: a potential and controversial treatment for COVID-19. Archives of Pharmacal Research, 2020, 43, 765-772.	6.3	44
35	Asparagine endopeptidase is an innovative therapeutic target for neurodegenerative diseases. Expert Opinion on Therapeutic Targets, 2016, 20, 1237-1245.	3.4	43
36	A Scientometric Analysis and Visualization of Research on Parkinson's Disease Associated With Pesticide Exposure. Frontiers in Public Health, 2020, 8, 91.	2.7	41

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37	Microglia and Wnt Pathways: Prospects for Inflammation in Alzheimerâ€™s Disease. Frontiers in Aging Neuroscience, 2020, 12, 110.	3.4	38
38	Fenpropathrin, a Widely Used Pesticide, Causes Dopaminergic Degeneration. Molecular Neurobiology, 2016, 53, 995-1008.	4.0	37
39	Investigation on sleep and mental health of patients with Parkinson's disease during the Coronavirus disease 2019 pandemic. Sleep Medicine, 2020, 75, 428-433.	1.6	36
40	Clinical Characteristics and Risk Factors for Disease Severity and Death in Patients With Coronavirus Disease 2019 in Wuhan, China. Frontiers in Medicine, 2020, 7, 532.	2.6	36
41	Tau accelerates Î±-synuclein aggregation and spreading in Parkinsonâ€™s disease. Brain, 2022, 145, 3454-3471.	7.6	36
42	Glucocerebrosidase L444P mutation confers genetic risk for Parkinsonâ€™s disease in central China. Behavioral and Brain Functions, 2012, 8, 57.	3.3	33
43	Impulsive and Compulsive Behaviors in ParkinsonÃ¢â‚¬â„¢s Disease. Frontiers in Aging Neuroscience, 2014, 6, 318.	3.4	31
44	Cofilin 1 promotes the pathogenicity and transmission of pathological Î±-synuclein in mouse models of Parkinsonâ€™s disease. Npj Parkinson's Disease, 2022, 8, 1.	5.3	26
45	HMGB1 Mediates Autophagy Dysfunction via Perturbing Beclin1-Vps34 Complex in Dopaminergic Cell Model. Frontiers in Molecular Neuroscience, 2017, 10, 13.	2.9	25
46	DNA polymerase-Î² is required for 1-methyl-4-phenylpyridinium-induced apoptotic death in neurons. Apoptosis: an International Journal on Programmed Cell Death, 2010, 15, 105-115.	4.9	24
47	bFGF promotes the differentiation and effectiveness of human bone marrow mesenchymal stem cells in a rotenone model for Parkinsonâ€™s disease. Environmental Toxicology and Pharmacology, 2013, 36, 411-422.	4.0	23
48	Antidyskinetic Effects of MEK Inhibitor Are Associated with Multiple Neurochemical Alterations in the Striatum of Hemiparkinsonian Rats. Frontiers in Neuroscience, 2017, 11, 112.	2.8	23
49	7,8-Dihydroxyflavone Protects Nigrostriatal Dopaminergic Neurons from Rotenone-Induced Neurotoxicity in Rodents. Parkinson's Disease, 2019, 2019, 1-10.	1.1	22
50	TRH Analog, Taltirelin Protects Dopaminergic Neurons From Neurotoxicity of MPTP and Rotenone. Frontiers in Cellular Neuroscience, 2018, 12, 485.	3.7	21
51	Dysfunction of Synaptic Vesicle Endocytosis in Parkinsonâ€™s Disease. Frontiers in Integrative Neuroscience, 2021, 15, 619160.	2.1	17
52	Islet amyloid polypeptide cross-seeds tau and drives the neurofibrillary pathology in Alzheimerâ€™s disease. Molecular Neurodegeneration, 2022, 17, 12.	10.8	16
53	Tau modification by the norepinephrine metabolite DOPEGAL stimulates its pathology and propagation. Nature Structural and Molecular Biology, 2022, 29, 292-305.	8.2	14
54	Suppression of abnormal Î±-synuclein expression by activation of BDNF transcription ameliorates Parkinsonâ€™s disease-like pathology. Molecular Therapy - Nucleic Acids, 2022, 29, 1-15.	5.1	14

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55	2â€²,3â€²-Dideoxycytidine, a DNA Polymerase-Î² Inhibitor, Reverses Memory Deficits in a Mouse Model of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2019, 67, 515-525.	2.6	13
56	Environmental factors in Parkinsonâ€™s disease: New insights into the molecular mechanisms. Toxicology Letters, 2022, 356, 1-10.	0.8	13
57	The Chinese Parkinson's Disease Registry (<scp>CPDR</scp>): Study Design and Baseline Patient Characteristics. Movement Disorders, 2022, 37, 1335-1345.	3.9	13
58	What is strain in neurodegenerative diseases?. Cellular and Molecular Life Sciences, 2020, 77, 665-676.	5.4	12
59	Distinct anti-dyskinetic effects of amantadine and group II metabotropic glutamate receptor agonist LY354740 in a rodent model: An electrophysiological perspective. Neurobiology of Disease, 2020, 139, 104807.	4.4	12
60	A study of familial MELAS: Evaluation of A3243G mutation, clinical phenotype, and magnetic resonance spectroscopy-monitored progression. Neurology India, 2012, 60, 86.	0.4	11
61	Cell Cycle Regulation of DNA Polymerase Beta in Rotenone-Based Parkinson's Disease Models. PLoS ONE, 2014, 9, e109697.	2.5	11
62	Levetiracetam Ameliorates L-DOPA-Induced Dyskinesia in Hemiparkinsonian Rats Inducing Critical Molecular Changes in the Striatum. Parkinson's Disease, 2015, 2015, 1-9.	1.1	11
63	MAPT rs242562 and GSK3B rs334558 are associated with Parkinsonâ€™s Disease in central China. BMC Neuroscience, 2014, 15, 54.	1.9	10
64	TRH Analog, Taltirelin Improves Motor Function of Hemi-PD Rats Without Inducing Dyskinesia via Sustained Dopamine Stimulating Effect. Frontiers in Cellular Neuroscience, 2018, 12, 417.	3.7	10
65	The gut-brain axis in the pathogenesis of Parkinsonâ€™s disease. Brain Science Advances, 2019, 5, 73-81.	0.9	10
66	Asparagine endopeptidase inhibitor protects against fenpropathrin-induced neurodegeneration via suppressing Î±-synuclein aggregation and neuroinflammation. European Journal of Pharmacology, 2020, 888, 173586.	3.5	10
67	Lovastatin Alleviates Î±-Synuclein Aggregation and Phosphorylation in Cellular Models of Synucleinopathy. Frontiers in Molecular Neuroscience, 2021, 14, 682320.	2.9	10
68	Amphiphysin I cleavage by asparagine endopeptidase leads to tau hyperphosphorylation and synaptic dysfunction. ELife, 2021, 10, .	6.0	9
69	Delta- and beta- secretases crosstalk amplifies the amyloidogenic pathway in Alzheimerâ€™s disease. Progress in Neurobiology, 2021, 204, 102113.	5.7	9
70	Silica Nanoparticles Promote Î±-Synuclein Aggregation and Parkinsonâ€™s Disease Pathology. Frontiers in Neuroscience, 2021, 15, 807988.	2.8	9
71	A synapsin â… cleavage fragment contributes to synaptic dysfunction in Alzheimer's disease. Aging Cell, 2022, 21, e13619.	6.7	9
72	Cerebral Organoids for Modeling of HSV-1-Induced-Amyloid Î² Associated Neuropathology and Phenotypic Rescue. International Journal of Molecular Sciences, 2022, 23, 5981.	4.1	9

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73	Japanese encephalitis accompanied by cerebral venous sinus thrombosis: a case report. BMC Neurology, 2012, 12, 43.	1.8	8
74	The Contribution of Cdc2 in Rotenone-Induced G2/M Arrest and Caspase-3-Dependent Apoptosis. Journal of Molecular Neuroscience, 2014, 53, 31-40.	2.3	8
75	Quantitative autoradiographic study on receptor regulation in the basal ganglia in rat model of levodopa-induced motor complications. Journal of Huazhong University of Science and Technology [Medical Sciences], 2009, 29, 156-162.	1.0	7
76	Cofilin 1 promotes the aggregation and cell-to-cell transmission of Î±-synuclein in Parkinsonâ€™s disease. Biochemical and Biophysical Research Communications, 2020, 529, 1053-1060.	2.1	7
77	A Î³-adducin cleavage fragment induces neurite deficits and synaptic dysfunction in Alzheimerâ€™s disease. Progress in Neurobiology, 2021, 203, 102074.	5.7	7
78	ADAM10 and ADAM17 are degraded by lysosomal pathway via asparagine endopeptidase. Biochemical and Biophysical Research Communications, 2021, 537, 15-21.	2.1	7
79	Asparaginyl endopeptidase protects against podocyte injury in diabetic nephropathy through cleaving cofilin-1. Cell Death and Disease, 2022, 13, 184.	6.3	7
80	6-OHDA induces cycle reentry and apoptosis of PC12 cells through activation of ERK1/2 signaling pathway. Journal of Huazhong University of Science and Technology [Medical Sciences], 2009, 29, 97-100.	1.0	6
81	Proliferating Cell Nuclear Antigen Binds DNA Polymerase-Î² and Mediates 1-Methyl-4-Phenylpyridinium-Induced Neuronal Death. PLoS ONE, 2014, 9, e106669.	2.5	6
82	Asparagine endopeptidase cleaves synaptojanin 1 and triggers synaptic dysfunction in Parkinson's disease. Neurobiology of Disease, 2021, 154, 105326.	4.4	6
83	7,8-Dihydroxyflavone ameliorates mitochondrial impairment and motor dysfunction in the Î±-synuclein 1â€“103 transgenic mice. Neurobiology of Disease, 2022, 169, 105736.	4.4	6
84	Cell cycle events mediate lactacystin-induced apoptotic death of neuronal PC12 cells. Cell Biology International, 2010, 34, 1181-1187.	3.0	5
85	Transgenic Mice Expressing Human Î±-Synuclein 1-103 Fragment as a Novel Model of Parkinsonâ€™s Disease. Frontiers in Aging Neuroscience, 2021, 13, 760781.	3.4	5
86	The pyrethroids metabolite 3-phenoxybenzoic acid induces dopaminergic degeneration. Science of the Total Environment, 2022, 838, 156027.	8.0	5
87	2â€²,3â€²-Dideoxycytidine Protects Dopaminergic Neurons in a Mouse Model of Parkinsonâ€™s Disease. Neurochemical Research, 2017, 42, 2996-3004.	3.3	3
88	Intrastriatal injection of ionomycin profoundly changes motor response to l -DOPA and its underlying molecular mechanisms. Neuroscience, 2017, 340, 23-33.	2.3	3
89	Bilateral Implantation of Shear Stress Modifier in ApoE Knockout Mouse Induces Cognitive Impairment and Tau Abnormalities. Frontiers in Aging Neuroscience, 2018, 10, 303.	3.4	3
90	P4-203: Asparagine endopeptidase cleaves amyloid precursor protein and promotes amyloidogenesis in Alzheimer's disease. , 2015, 11, P858-P859.		0

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91	[P4â€“126]: Îˆâ€SECRETASEâ€“CLEAVED TAU STIMULATES AÎ² PRODUCTION VIA ACTIVATING STAT1â€BACE1 PATHWAY IN ALZHEIMER's DISEASE. Alzheimer's and Dementia, 2017, 13, P1305.	0.8	0
92	The fluid biomarkers of Alzheimerâ€™s disease. Brain Science Advances, 2021, 7, 1-16.	0.9	0
93	CCAAT-Enhancer Binding Protein-beta (C/EBPP) Regulates Deltasecretase Expression, Mediating the Pathogenesis in Alzheimer's Disease. SSRN Electronic Journal, 0, , .	0.4	0