

# Zhentaο Zhang

## List of Publications by Year in descending order

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93  
papers

3,916  
citations

109321  
35  
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138484  
58  
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97  
all docs

97  
docs citations

97  
times ranked

4932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Islet amyloid polypeptide cross-seeds tau and drives the neurofibrillary pathology in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2022, 17, 12.	10.8	16
2	Cofilin 1 promotes the pathogenicity and transmission of pathological $\alpha$ -synuclein in mouse models of Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2022, 8, 1.	5.3	26
3	Environmental factors in Parkinson's disease: New insights into the molecular mechanisms. <i>Toxicology Letters</i> , 2022, 356, 1-10.	0.8	13
4	Asparaginyl endopeptidase protects against podocyte injury in diabetic nephropathy through cleaving cofilin-1. <i>Cell Death and Disease</i> , 2022, 13, 184.	6.3	7
5	Tau modification by the norepinephrine metabolite DOPEGAL stimulates its pathology and propagation. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 292-305.	8.2	14
6	A synapsin $\alpha$ -cleavage fragment contributes to synaptic dysfunction in Alzheimer's disease. <i>Aging Cell</i> , 2022, 21, e13619.	6.7	9
7	7,8-Dihydroxyflavone ameliorates mitochondrial impairment and motor dysfunction in the $\alpha$ -synuclein $\Delta$ E49 transgenic mice. <i>Neurobiology of Disease</i> , 2022, 169, 105736.	4.4	6
8	Tau accelerates $\alpha$ -synuclein aggregation and spreading in Parkinson's disease. <i>Brain</i> , 2022, 145, 3454-3471.	7.6	36
9	The Chinese Parkinson's Disease Registry (CPDR): Study Design and Baseline Patient Characteristics. <i>Movement Disorders</i> , 2022, 37, 1335-1345.	3.9	13
10	Cerebral Organoids for Modeling of HSV-1-Induced-Amyloid $\beta$ Associated Neuropathology and Phenotypic Rescue. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5981.	4.1	9
11	Suppression of abnormal $\alpha$ -synuclein expression by activation of BDNF transcription ameliorates Parkinson's disease-like pathology. <i>Molecular Therapy - Nucleic Acids</i> , 2022, 29, 1-15.	5.1	14
12	The pyrethroids metabolite 3-phenoxybenzoic acid induces dopaminergic degeneration. <i>Science of the Total Environment</i> , 2022, 838, 156027.	8.0	5
13	$\beta$ -Secretase-cleaved Tau stimulates $A\beta$ production via upregulating STAT1-BACE1 signaling in Alzheimer's disease. <i>Molecular Psychiatry</i> , 2021, 26, 586-603.	7.9	54
14	Exosome-mediated delivery of antisense oligonucleotides targeting $\alpha$ -synuclein ameliorates the pathology in a mouse model of Parkinson's disease. <i>Neurobiology of Disease</i> , 2021, 148, 105218.	4.4	69
15	Cholesterol Metabolism in Neurodegenerative Diseases: Molecular Mechanisms and Therapeutic Targets. <i>Molecular Neurobiology</i> , 2021, 58, 2183-2201.	4.0	93
16	Activation of BDNF by transcription factor Nrf2 contributes to antidepressant-like actions in rodents. <i>Translational Psychiatry</i> , 2021, 11, 140.	4.8	49
17	The fluid biomarkers of Alzheimer's disease. <i>Brain Science Advances</i> , 2021, 7, 1-16.	0.9	0
18	Reactive microglia enhance the transmission of exosomal $\alpha$ -synuclein via toll-like receptor 2. <i>Brain</i> , 2021, 144, 2024-2037.	7.6	57

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19	Dysfunction of Synaptic Vesicle Endocytosis in Parkinson's Disease. <i>Frontiers in Integrative Neuroscience</i> , 2021, 15, 619160.	2.1	17
20	Amphiphysin I cleavage by asparagine endopeptidase leads to tau hyperphosphorylation and synaptic dysfunction. <i>ELife</i> , 2021, 10, .	6.0	9
21	Asparagine endopeptidase cleaves synaptojanin 1 and triggers synaptic dysfunction in Parkinson's disease. <i>Neurobiology of Disease</i> , 2021, 154, 105326.	4.4	6
22	Lovastatin Alleviates $\beta$ -Synuclein Aggregation and Phosphorylation in Cellular Models of Synucleinopathy. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 682320.	2.9	10
23	A $\beta$ -adducin cleavage fragment induces neurite deficits and synaptic dysfunction in Alzheimer's disease. <i>Progress in Neurobiology</i> , 2021, 203, 102074.	5.7	7
24	Delta- and beta- secretases crosstalk amplifies the amyloidogenic pathway in Alzheimer's disease. <i>Progress in Neurobiology</i> , 2021, 204, 102113.	5.7	9
25	Tau in the Pathophysiology of Parkinson's Disease. <i>Journal of Molecular Neuroscience</i> , 2021, 71, 2179-2191.	2.3	47
26	ADAM10 and ADAM17 are degraded by lysosomal pathway via asparagine endopeptidase. <i>Biochemical and Biophysical Research Communications</i> , 2021, 537, 15-21.	2.1	7
27	Transgenic Mice Expressing Human $\beta$ -Synuclein 1-103 Fragment as a Novel Model of Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 760781.	3.4	5
28	Silica Nanoparticles Promote $\beta$ -Synuclein Aggregation and Parkinson's Disease Pathology. <i>Frontiers in Neuroscience</i> , 2021, 15, 807988.	2.8	9
29	What is strain in neurodegenerative diseases?. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 665-676.	5.4	12
30	$\beta$ -secretase in neurodegenerative diseases: mechanisms, regulators and therapeutic opportunities. <i>Translational Neurodegeneration</i> , 2020, 9, 1.	8.0	60
31	Cerebrospinal fluid tau fragment correlates with tau PET: a candidate biomarker for tangle pathology. <i>Brain</i> , 2020, 143, 650-660.	7.6	68
32	Initiation of Parkinson's disease from gut to brain by $\beta$ -secretase. <i>Cell Research</i> , 2020, 30, 70-87.	12.0	69
33	Traumatic brain injury triggers APP and Tau cleavage by delta-secretase, mediating Alzheimer's disease pathology. <i>Progress in Neurobiology</i> , 2020, 185, 101730.	5.7	49
34	Asparagine endopeptidase inhibitor protects against fenpropathrin-induced neurodegeneration via suppressing $\beta$ -synuclein aggregation and neuroinflammation. <i>European Journal of Pharmacology</i> , 2020, 888, 173586.	3.5	10
35	Investigation on sleep and mental health of patients with Parkinson's disease during the Coronavirus disease 2019 pandemic. <i>Sleep Medicine</i> , 2020, 75, 428-433.	1.6	36
36	Hydroxychloroquine and chloroquine: a potential and controversial treatment for COVID-19. <i>Archives of Pharmacal Research</i> , 2020, 43, 765-772.	6.3	44

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37	Cofilin 1 promotes the aggregation and cell-to-cell transmission of $\alpha$ -synuclein in Parkinson's disease. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 1053-1060.	2.1	7
38	Clinical Characteristics and Risk Factors for Disease Severity and Death in Patients With Coronavirus Disease 2019 in Wuhan, China. <i>Frontiers in Medicine</i> , 2020, 7, 532.	2.6	36
39	Longitudinal Change of Severe Acute Respiratory Syndrome Coronavirus 2 Antibodies in Patients with Coronavirus Disease 2019. <i>Journal of Infectious Diseases</i> , 2020, 222, 183-188.	4.0	118
40	Microglia and Wnt Pathways: Prospects for Inflammation in Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 110.	3.4	38
41	The role of genetics in Parkinson's disease: a large cohort study in Chinese mainland population. <i>Brain</i> , 2020, 143, 2220-2234.	7.6	97
42	TREM2 ectodomain and its soluble form in Alzheimer's disease. <i>Journal of Neuroinflammation</i> , 2020, 17, 204.	7.2	55
43	Distinct anti-dyskinetic effects of amantadine and group II metabotropic glutamate receptor agonist LY354740 in a rodent model: An electrophysiological perspective. <i>Neurobiology of Disease</i> , 2020, 139, 104807.	4.4	12
44	VX-765 attenuates atherosclerosis in ApoE deficient mice by modulating VSMCs pyroptosis. <i>Experimental Cell Research</i> , 2020, 389, 111847.	2.6	68
45	A Scientometric Analysis and Visualization of Research on Parkinson's Disease Associated With Pesticide Exposure. <i>Frontiers in Public Health</i> , 2020, 8, 91.	2.7	41
46	Exosomes from patients with Parkinson's disease are pathological in mice. <i>Journal of Molecular Medicine</i> , 2019, 97, 1329-1344.	3.9	58
47	7,8-Dihydroxyflavone Protects Nigrostriatal Dopaminergic Neurons from Rotenone-Induced Neurotoxicity in Rodents. <i>Parkinson's Disease</i> , 2019, 2019, 1-10.	1.1	22
48	The gut-brain axis in the pathogenesis of Parkinson's disease. <i>Brain Science Advances</i> , 2019, 5, 73-81.	0.9	10
49	2',3'-Dideoxycytidine, a DNA Polymerase- $\beta$ Inhibitor, Reverses Memory Deficits in a Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2019, 67, 515-525.	2.6	13
50	The prodrug of 7,8-dihydroxyflavone development and therapeutic efficacy for treating Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 578-583.	7.1	123
51	C/EBP $\beta$ regulates delta-secretase expression and mediates pathogenesis in mouse models of Alzheimer's disease. <i>Nature Communications</i> , 2018, 9, 1784.	12.8	91
52	TRH Analog, Taltirelin Improves Motor Function of Hemi-PD Rats Without Inducing Dyskinesia via Sustained Dopamine Stimulating Effect. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 417.	3.7	10
53	TRH Analog, Taltirelin Protects Dopaminergic Neurons From Neurotoxicity of MPTP and Rotenone. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 485.	3.7	21
54	The Early Events That Initiate $\beta$ -Amyloid Aggregation in Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 359.	3.4	85

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55	Bilateral Implantation of Shear Stress Modifier in ApoE Knockout Mouse Induces Cognitive Impairment and Tau Abnormalities. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 303.	3.4	3
56	Î±-Synuclein stimulation of monoamine oxidase-B and legumain protease mediates the pathology of Parkinson's disease. <i>EMBO Journal</i> , 2018, 37, .	7.8	73
57	Î±-Synuclein binds and sequesters PIKE-L into Lewy bodies, triggering dopaminergic cell death via AMPK hyperactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1183-1188.	7.1	44
58	2â€²,3â€²-Dideoxycytidine Protects Dopaminergic Neurons in a Mouse Model of Parkinsonâ€™s Disease. <i>Neurochemical Research</i> , 2017, 42, 2996-3004.	3.3	3
59	Inhibition of delta-secretase improves cognitive functions in mouse models of Alzheimerâ€™s disease. <i>Nature Communications</i> , 2017, 8, 14740.	12.8	96
60	TrkB neurotrophic activities are blocked by Î±-synuclein, triggering dopaminergic cell death in Parkinsonâ€™s disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 10773-10778.	7.1	91
61	Asparagine endopeptidase cleaves Î±-synuclein and mediates pathologic activities in Parkinson's disease. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 632-642.	8.2	159
62	Intrastriatal injection of ionomycin profoundly changes motor response to l-DOPA and its underlying molecular mechanisms. <i>Neuroscience</i> , 2017, 340, 23-33.	2.3	3
63	[P4â€² <sup>126</sup> ]: Î±-SECRETASEâ€²-CLEAVED TAU STIMULATES AÎ² <sup>2</sup> PRODUCTION VIA ACTIVATING STAT1â€²BACE1 PATHWAY IN ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2017, 13, P1305.	0.8	0
64	Antidyskinetic Effects of MEK Inhibitor Are Associated with Multiple Neurochemical Alterations in the Striatum of Hemiparkinsonian Rats. <i>Frontiers in Neuroscience</i> , 2017, 11, 112.	2.8	23
65	HMGB1 Mediates Autophagy Dysfunction via Perturbing Beclin1-Vps34 Complex in Dopaminergic Cell Model. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 13.	2.9	25
66	Asparagine endopeptidase is an innovative therapeutic target for neurodegenerative diseases. <i>Expert Opinion on Therapeutic Targets</i> , 2016, 20, 1237-1245.	3.4	43
67	Fenpropathrin, a Widely Used Pesticide, Causes Dopaminergic Degeneration. <i>Molecular Neurobiology</i> , 2016, 53, 995-1008.	4.0	37
68	Levetiracetam Ameliorates L-DOPA-Induced Dyskinesia in Hemiparkinsonian Rats Inducing Critical Molecular Changes in the Striatum. <i>Parkinson's Disease</i> , 2015, 2015, 1-9.	1.1	11
69	P4-203: Asparagine endopeptidase cleaves amyloid precursor protein and promotes amyloidogenesis in Alzheimer's disease. , 2015, 11, P858-P859.		0
70	Delta-secretase cleaves amyloid precursor protein and regulates the pathogenesis in Alzheimerâ€™s disease. <i>Nature Communications</i> , 2015, 6, 8762.	12.8	210
71	Small molecule TrkB agonist deoxygedunin protects nigrostriatal dopaminergic neurons from 6-OHDA and MPTP induced neurotoxicity in rodents. <i>Neuropharmacology</i> , 2015, 99, 448-458.	4.1	54
72	Effectiveness of Traditional Chinese Medicine as an Adjunct Therapy for Parkinsonâ€™s Disease: A Systematic Review and Meta-Analysis. <i>PLoS ONE</i> , 2015, 10, e0118498.	2.5	45

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73	Proliferating Cell Nuclear Antigen Binds DNA Polymerase- $\beta$ and Mediates 1-Methyl-4-Phenylpyridinium-Induced Neuronal Death. <i>PLoS ONE</i> , 2014, 9, e106669.	2.5	6
74	Cell Cycle Regulation of DNA Polymerase Beta in Rotenone-Based Parkinson's Disease Models. <i>PLoS ONE</i> , 2014, 9, e109697.	2.5	11
75	Impulsive and Compulsive Behaviors in Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 318.	3.4	31
76	The Contribution of Cdc2 in Rotenone-Induced G2/M Arrest and Caspase-3-Dependent Apoptosis. <i>Journal of Molecular Neuroscience</i> , 2014, 53, 31-40.	2.3	8
77	7,8-Dihydroxyflavone Prevents Synaptic Loss and Memory Deficits in a Mouse Model of Alzheimer's Disease. <i>Neuropsychopharmacology</i> , 2014, 39, 638-650.	5.4	198
78	Cleavage of tau by asparagine endopeptidase mediates the neurofibrillary pathology in Alzheimer's disease. <i>Nature Medicine</i> , 2014, 20, 1254-1262.	30.7	367
79	MAPT rs242562 and GSK3B rs334558 are associated with Parkinson's Disease in central China. <i>BMC Neuroscience</i> , 2014, 15, 54.	1.9	10
80	The role of autophagy in Parkinson's disease: rotenone-based modeling. <i>Behavioral and Brain Functions</i> , 2013, 9, 13.	3.3	85
81	bFGF promotes the differentiation and effectiveness of human bone marrow mesenchymal stem cells in a rotenone model for Parkinson's disease. <i>Environmental Toxicology and Pharmacology</i> , 2013, 36, 411-422.	4.0	23
82	A study of familial MELAS: Evaluation of A3243G mutation, clinical phenotype, and magnetic resonance spectroscopy-monitored progression. <i>Neurology India</i> , 2012, 60, 86.	0.4	11
83	DL-3-n-butylphthalide, a natural antioxidant, protects dopamine neurons in rotenone models for Parkinson's disease. <i>Neurobiology of Aging</i> , 2012, 33, 1777-1791.	3.1	92
84	Japanese encephalitis accompanied by cerebral venous sinus thrombosis: a case report. <i>BMC Neurology</i> , 2012, 12, 43.	1.8	8
85	Glucocerebrosidase L444P mutation confers genetic risk for Parkinson's disease in central China. <i>Behavioral and Brain Functions</i> , 2012, 8, 57.	3.3	33
86	Edaravone Guards Dopamine Neurons in a Rotenone Model for Parkinson's Disease. <i>PLoS ONE</i> , 2011, 6, e20677.	2.5	59
87	Cell cycle events mediate lactacystin-induced apoptotic death of neuronal PC12 cells. <i>Cell Biology International</i> , 2010, 34, 1181-1187.	3.0	5
88	DNA polymerase- $\beta$ is required for 1-methyl-4-phenylpyridinium-induced apoptotic death in neurons. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010, 15, 105-115.	4.9	24
89	Long-Term Efficacy and Safety of Human Umbilical Cord Mesenchymal Stromal Cells in Rotenone-Induced Hemiparkinsonian Rats. <i>Biology of Blood and Marrow Transplantation</i> , 2010, 16, 1519-1529.	2.0	48
90	6-OHDA induces cycle reentry and apoptosis of PC12 cells through activation of ERK1/2 signaling pathway. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2009, 29, 97-100.	1.0	6

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91	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
92	Stereotaxical Infusion of Rotenone: A Reliable Rodent Model for Parkinson's Disease. PLoS ONE, 2009, 4, e7878.	2.5	94
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