

Piu Chan

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

10,136
citations

81743

39
h-index

39575

94
g-index

120
all docs

120
docs citations

120
times ranked

11964
citing authors

#	ARTICLE	IF	CITATIONS
1	MDS clinical diagnostic criteria for Parkinson's disease. <i>Movement Disorders</i> , 2015, 30, 1591-1601.	2.2	4,389
2	MDS research criteria for prodromal Parkinson's disease. <i>Movement Disorders</i> , 2015, 30, 1600-1611.	2.2	1,033
3	The Asia-Pacific Clinical Practice Guidelines for the Management of Frailty. <i>Journal of the American Medical Directors Association</i> , 2017, 18, 564-575.	1.2	408
4	Motor automaticity in Parkinson's disease. <i>Neurobiology of Disease</i> , 2015, 82, 226-234.	2.1	238
5	Validation of the MDS clinical diagnostic criteria for Parkinson's disease. <i>Movement Disorders</i> , 2018, 33, 1601-1608.	2.2	171
6	Identification of TMEM230 mutations in familial Parkinson's disease. <i>Nature Genetics</i> , 2016, 48, 733-739.	9.4	146
7	Gradual Disturbances of the Amplitude of Low-Frequency Fluctuations (ALFF) and Fractional ALFF in Alzheimer Spectrum. <i>Frontiers in Neuroscience</i> , 2018, 12, 975.	1.4	135
8	Loss of MAP Function Leads to Hippocampal Synapse Loss and Deficits in the Morris Water Maze with Aging. <i>Journal of Neuroscience</i> , 2014, 34, 7124-7136.	1.7	120
9	Up-regulation of FOXD1 by YAP alleviates senescence and osteoarthritis. <i>PLoS Biology</i> , 2019, 17, e3000201.	2.6	104
10	Aging and the nigrostriatal dopamine system: a non-human primate study. <i>Experimental Neurology</i> , 1994, 3, 251-65.	1.7	104
11	Prevalence of Frailty and Associated Factors in the Community-dwelling Population of China. <i>Journal of the American Geriatrics Society</i> , 2018, 66, 559-564.	1.3	103
12	Chemical screen identifies a geroprotective role of quercetin in premature aging. <i>Protein and Cell</i> , 2019, 10, 417-435.	4.8	88
13	Attention to Automatic Movements in Parkinson's Disease: Modified Automatic Mode in the Striatum. <i>Cerebral Cortex</i> , 2015, 25, 3330-3342.	1.6	86
14	Differentiation of human induced pluripotent stem cells to mature functional Purkinje neurons. <i>Scientific Reports</i> , 2015, 5, 9232.	1.6	82
15	Stabilizing heterochromatin by DGCR8 alleviates senescence and osteoarthritis. <i>Nature Communications</i> , 2019, 10, 3329.	5.8	82
16	Tea polyphenols alleviate motor impairments, dopaminergic neuronal injury, and cerebral α -synuclein aggregation in MPTP-intoxicated parkinsonian monkeys. <i>Neuroscience</i> , 2015, 286, 383-392.	1.1	81
17	FOXO3-Engineered Human ESC-Derived Vascular Cells Promote Vascular Protection and Regeneration. <i>Cell Stem Cell</i> , 2019, 24, 447-461.e8.	5.2	78
18	Parkinson disease with REM sleep behavior disorder. <i>Neurology</i> , 2015, 84, 888-894.	1.5	77

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19	Prevalence and Incidence of Frailty in Community-Dwelling Older People: Beijing Longitudinal Study of Aging <sc>II</sc>. <i>Journal of the American Geriatrics Society</i> , 2016, 64, 1281-1286.	1.3	77
20	Penetrance of LRRK2 G2385R and R1628P is modified by common PD-associated genetic variants. <i>Parkinsonism and Related Disorders</i> , 2012, 18, 958-963.	1.1	73
21	Clinical profiles of Parkinson's disease associated with common leucine-rich repeat kinase 2 and glucocerebrosidase genetic variants in Chinese individuals. <i>Neurobiology of Aging</i> , 2014, 35, 725.e1-725.e6.	1.5	72
22	Serotonergic dysfunctions and abnormal iron metabolism: Relevant to mental fatigue of Parkinson disease. <i>Scientific Reports</i> , 2016, 6, 19.	1.6	72
23	Neural correlates underlying micrographia in Parkinson's disease. <i>Brain</i> , 2016, 139, 144-160.	3.7	72
24	The prevalence and incidence of frailty in Pre-diabetic and diabetic community-dwelling older population: results from Beijing longitudinal study of aging II (BLSA-II). <i>BMC Geriatrics</i> , 2017, 17, 47.	1.1	68
25	Stabilization of heterochromatin by CLOCK promotes stem cell rejuvenation and cartilage regeneration. <i>Cell Research</i> , 2021, 31, 187-205.	5.7	67
26	Ganoderma lucidum extract ameliorates MPTP-induced parkinsonism and protects dopaminergic neurons from oxidative stress via regulating mitochondrial function, autophagy, and apoptosis. <i>Acta Pharmacologica Sinica</i> , 2019, 40, 441-450.	2.8	65
27	Understanding the Physiological Links Between Physical Frailty and Cognitive Decline. , 2020, 11, 405.		62
28	Differential stem cell aging kinetics in Hutchinson-Gilford progeria syndrome and Werner syndrome. <i>Protein and Cell</i> , 2018, 9, 333-350.	4.8	56
29	Increased oligomerization and phosphorylation of α -synuclein are associated with decreased activity of glucocerebrosidase and protein phosphatase 2A in aging monkey brains. <i>Neurobiology of Aging</i> , 2015, 36, 2649-2659.	1.5	54
30	Motoric Cognitive Risk Syndrome: Predictor of Dementia and Age-Related Negative Outcomes. <i>Frontiers in Medicine</i> , 2017, 4, 166.	1.2	54
31	Integrated Care for Older People Screening Tool for Measuring Intrinsic Capacity: Preliminary Findings From ICOPE Pilot in China. <i>Frontiers in Medicine</i> , 2020, 7, 576079.	1.2	54
32	Altered resting-state brain activity in Parkinson's disease patients with freezing of gait. <i>Scientific Reports</i> , 2017, 7, 16711.	1.6	53
33	Waist circumference is a better predictor of risk for frailty than BMI in the community-dwelling elderly in Beijing. <i>Aging Clinical and Experimental Research</i> , 2018, 30, 1319-1325.	1.4	53
34	Cognitive Frailty in China: Results from China Comprehensive Geriatric Assessment Study. <i>Frontiers in Medicine</i> , 2017, 4, 174.	1.2	52
35	Prevalence of frailty and contributory factors in three Chinese populations with different socioeconomic and healthcare characteristics. <i>BMC Geriatrics</i> , 2015, 15, 163.	1.1	50
36	Autologous iPSC-derived dopamine neuron transplantation in a nonhuman primate Parkinson's disease model. <i>Cell Discovery</i> , 2015, 1, 15012.	3.1	49

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37	ATF6 safeguards organelle homeostasis and cellular aging in human mesenchymal stem cells. <i>Cell Discovery</i> , 2018, 4, 2.	3.1	49
38	A silicon based implantable microelectrode array for electrophysiological and dopamine recording from cortex to striatum in the non-human primate brain. <i>Biosensors and Bioelectronics</i> , 2016, 85, 53-61.	5.3	46
39	Pyrosequencing analysis of SNCA methylation levels in leukocytes from Parkinson's disease patients. <i>Neuroscience Letters</i> , 2014, 569, 85-88.	1.0	44
40	Parkinson's Disease-Related Spatial Covariance Pattern Identified with Resting-State Functional MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1764-1770.	2.4	43
41	<i>Ganoderma lucidum</i> Protects Dopaminergic Neuron Degeneration through Inhibition of Microglial Activation. <i>Evidence-based Complementary and Alternative Medicine</i> , 2011, 2011, 1-9.	0.5	41
42	Real-time simultaneous recording of electrophysiological activities and dopamine overflow in the deep brain nuclei of a non-human primate with Parkinson's disease using nano-based microelectrode arrays. <i>Microsystems and Nanoengineering</i> , 2018, 4, .	3.4	41
43	Prevalence of Parkinson's Disease: A Community-Based Study in China. <i>Movement Disorders</i> , 2021, 36, 2940-2944.	2.2	41
44	Iron deposition in substantia nigra: abnormal iron metabolism, neuroinflammatory mechanism and clinical relevance. <i>Scientific Reports</i> , 2017, 7, 14973.	1.6	40
45	Genetic enhancement in cultured human adult stem cells conferred by a single nucleotide recoding. <i>Cell Research</i> , 2017, 27, 1178-1181.	5.7	40
46	High-frequency rTMS over the supplementary motor area improves freezing of gait in Parkinson's disease: a randomized controlled trial. <i>Parkinsonism and Related Disorders</i> , 2019, 68, 85-90.	1.1	39
47	The impact of long-term exposure to ambient air pollution and second-hand smoke on the onset of Parkinson disease: a review and meta-analysis. <i>Public Health</i> , 2020, 179, 100-110.	1.4	36
48	Postural sway in patients with early Parkinson's disease performing cognitive tasks while standing. <i>Neurological Research</i> , 2018, 40, 491-498.	0.6	35
49	Levodopa Effect on Basal Ganglia Motor Circuit in Parkinson's Disease. <i>CNS Neuroscience and Therapeutics</i> , 2017, 23, 76-86.	1.9	33
50	Evaluation of the Risk Prediction Tools for Patients With Coronavirus Disease 2019 in Wuhan, China: A Single-Centered, Retrospective, Observational Study*. <i>Critical Care Medicine</i> , 2020, 48, e1004-e1011.	0.4	31
51	Repetitive transcranial magnetic stimulation improves Parkinson's freezing of gait via normalizing brain connectivity. <i>Npj Parkinson's Disease</i> , 2020, 6, 16.	2.5	31
52	Association of Catechol-O-Methyltransferase and monoamine oxidase B gene polymorphisms with motor complications in parkinson's disease in a Chinese population. <i>Parkinsonism and Related Disorders</i> , 2014, 20, 1041-1045.	1.1	30
53	Postural sway in idiopathic rapid eye movement sleep behavior disorder: A potential marker of prodromal Parkinson's disease. <i>Brain Research</i> , 2014, 1559, 26-32.	1.1	29
54	Heterogeneity among patients with Parkinson's disease: Cluster analysis and genetic association. <i>Journal of the Neurological Sciences</i> , 2015, 351, 41-45.	0.3	29

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55	The cerebellum in dual-task performance in Parkinson's disease. <i>Scientific Reports</i> , 2017, 7, 45662.	1.6	29
56	Intrinsic Capacity vs. Multimorbidity: A Function-Centered Construct Predicts Disability Better Than a Disease-Based Approach in a Community-Dwelling Older Population Cohort. <i>Frontiers in Medicine</i> , 2021, 8, 753295.	1.2	29
57	Contemporary epidemiology of gout and hyperuricemia in community elderly in Beijing. <i>International Journal of Rheumatic Diseases</i> , 2014, 17, 400-407.	0.9	28
58	Functional Connectivity of Vim Nucleus in Tremor- and Akinetic/Rigid-Dominant Parkinson's Disease. <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 378-386.	1.9	27
59	Phenotype of postural instability/gait difficulty in Parkinson disease: relevance to cognitive impairment and mechanism relating pathological proteins and neurotransmitters. <i>Scientific Reports</i> , 2017, 7, 44872.	1.6	27
60	Clinical features and dysfunctions of iron metabolism in Parkinson disease patients with hyper echogenicity in substantia nigra: a cross-sectional study. <i>BMC Neurology</i> , 2018, 18, 9.	0.8	27
61	A Multicenter Study of Multimorbidity in Older Adult Inpatients in China. <i>Journal of Nutrition, Health and Aging</i> , 2020, 24, 269-276.	1.5	27
62	Serum uric acid and impaired cognitive function in community-dwelling elderly in Beijing. <i>Neuroscience Letters</i> , 2017, 637, 182-187.	1.0	25
63	NOVEL FRAILTY SCREENING QUESTIONNAIRE (FSQ) PREDICTS 8-YEAR MORTALITY IN OLDER ADULTS IN CHINA. <i>Journal of Frailty & Aging</i> , 2019, 8, 1-7.	0.8	24
64	Management Recommendations on Sleep Disturbance of Patients with Parkinson's Disease. <i>Chinese Medical Journal</i> , 2018, 131, 2976-2985.	0.9	24
65	Connectome-wide network analysis of white matter connectivity in Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2019, 22, 101690.	1.4	24
66	High-frequency repetitive transcranial magnetic stimulation over the primary motor cortex relieves musculoskeletal pain in patients with Parkinson's disease: A randomized controlled trial. <i>Parkinsonism and Related Disorders</i> , 2020, 80, 113-119.	1.1	24
67	Altered functional connectivity of the subthalamic nucleus during self-initiated movement in Parkinson's disease. <i>Journal of Neuroradiology</i> , 2018, 45, 249-255.	0.6	23
68	Combined measurement of plasma cystatin C and low-density lipoprotein cholesterol: A valuable tool for evaluating progressive supranuclear palsy. <i>Parkinsonism and Related Disorders</i> , 2018, 52, 37-42.	1.1	23
69	Risk factors for cognitive impairment in older people with diabetes: a community-based study. <i>Therapeutic Advances in Endocrinology and Metabolism</i> , 2019, 10, 204201881983664.	1.4	23
70	Plasma immune markers in an idiopathic REM sleep behavior disorder cohort. <i>Parkinsonism and Related Disorders</i> , 2020, 78, 145-150.	1.1	22
71	Parkin mutations are rare in patients with young-onset parkinsonism in a US population. <i>Parkinsonism and Related Disorders</i> , 2003, 9, 309-312.	1.1	21
72	Decreased subregional specificity of the putamen in Parkinson's Disease revealed by dynamic connectivity-derived parcellation. <i>NeuroImage: Clinical</i> , 2018, 20, 1163-1175.	1.4	20

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73	Structural and functional brain alterations in patients with idiopathic rapid eye movement sleep behavior disorder. <i>Journal of Neuroradiology</i> , 2022, 49, 66-72.	0.6	20
74	The underlying mechanism of prodromal PD: insights from the parasympathetic nervous system and the olfactory system. <i>Translational Neurodegeneration</i> , 2017, 6, 4.	3.6	19
75	Excessive Iron and α -Synuclein Oligomer in Brain are Relevant to Pure Apathy in Parkinson Disease. <i>Journal of Geriatric Psychiatry and Neurology</i> , 2016, 29, 187-194.	1.2	18
76	Different risk factors for cognitive impairment among community-dwelling elderly, with impaired fasting glucose or diabetes. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2019, Volume 12, 121-130.	1.1	17
77	Age-related decline in motor behavior and striatal dopamine transporter in cynomolgus monkeys. <i>Journal of Neural Transmission</i> , 2012, 119, 943-952.	1.4	15
78	PREVENTION OF DISABILITY IN THE FRAIL CHINESE OLDER POPULATION. <i>Journal of Frailty & Aging</i> , 2018, 8, 1-4.	0.8	15
79	Post-translational modifications of α -synuclein contribute to neurodegeneration in the colon of elderly individuals. <i>Molecular Medicine Reports</i> , 2016, 13, 5077-5083.	1.1	14
80	An integrated system for synchronous detection of neuron spikes and dopamine activities in the striatum of Parkinson monkey brain. <i>Journal of Neuroscience Methods</i> , 2018, 304, 83-91.	1.3	14
81	Motoric Cognitive Risk Syndrome in a Chinese Older Adult Population: Prevalence and Associated Factors. <i>Journal of the American Medical Directors Association</i> , 2020, 21, 136-137.	1.2	14
82	Parkin dosage mutations in patients with early-onset sporadic and familial Parkinson's disease in Chinese: An independent pathogenic role. <i>Brain Research</i> , 2010, 1358, 30-38.	1.1	13
83	Risk factors for possible REM sleep behavior disorders. <i>Neurology</i> , 2020, 95, e2214-e2224.	1.5	13
84	Associations between homocysteine, inflammatory cytokines and sarcopenia in Chinese older adults with type 2 diabetes. <i>BMC Geriatrics</i> , 2021, 21, 692.	1.1	13
85	Age-dependent alpha-synuclein accumulation is correlated with elevation of mitochondrial TRPC3 in the brains of monkeys and mice. <i>Journal of Neural Transmission</i> , 2017, 124, 441-453.	1.4	12
86	Simple Physical Activity Index Predicts Prognosis in Older Adults: Beijing Longitudinal Study of Aging. <i>Journal of Nutrition, Health and Aging</i> , 2018, 22, 854-860.	1.5	12
87	Validation of the utility of the Brief Smell Identification Test in Chinese patients with Parkinson's disease. <i>Journal of Clinical Neuroscience</i> , 2019, 60, 68-72.	0.8	12
88	Poor self-perceived health is associated with frailty and prefrailty in urban living older adults: A cross-sectional analysis. <i>Geriatric Nursing</i> , 2020, 41, 754-760.	0.9	12
89	Reliability and validity of the self-reported frailty screening questionnaire in older adults. <i>Therapeutic Advances in Chronic Disease</i> , 2020, 11, 204062232090427.	1.1	11
90	Geriatric medicine in China: an old but emerging subspecialty. <i>Age and Ageing</i> , 2021, 50, 57-58.	0.7	9

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91	Role of α -synuclein in neurodegeneration: implications for the pathogenesis of Parkinson's disease. <i>Essays in Biochemistry</i> , 2014, 56, 125-135.	2.1	9
92	Low-dose chloroquine treatment extends the lifespan of aged rats. <i>Protein and Cell</i> , 2022, 13, 454-461.	4.8	9
93	Progressive loss of striatal dopamine terminals in MPTP-induced acute parkinsonism in cynomolgus monkeys using vesicular monoamine transporter type 2 PET imaging ([¹⁸ F]AV-133). <i>Neuroscience Bulletin</i> , 2014, 30, 409-416.	1.5	8
94	Visual dysfunction in patients with idiopathic rapid eye movement sleep behavior disorder. <i>Neuroscience Letters</i> , 2019, 709, 134360.	1.0	8
95	Decreased Penetrance of Parkinson's Disease in Elderly Carriers of Glucocerebrosidase Gene L444P/R Mutations: A Community-Based 10-Year Longitudinal Study. <i>Movement Disorders</i> , 2020, 35, 672-678.	2.2	8
96	Severity of frailty as a significant predictor of mortality for hemodialysis patients: a prospective study in China. <i>International Journal of Medical Sciences</i> , 2021, 18, 3309-3317.	1.1	8
97	Frailty in China: From Research to Practice. <i>Journal of Nutrition, Health and Aging</i> , 2021, 25, 479-483.	1.5	8
98	Risk of mini-mental state examination (MMSE) decline in the elderly with type 2 diabetes: a Chinese community-based cohort study. <i>BMC Endocrine Disorders</i> , 2020, 20, 129.	0.9	7
99	Prevalence of pre-diagnostic symptoms did not differ between LRRK2-related, GBA-related and idiopathic patients with Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2018, 57, 72-76.	1.1	6
100	Validation of a new olfactory test for Chinese Parkinson's disease patients. <i>Journal of Clinical Neuroscience</i> , 2020, 76, 31-35.	0.8	6
101	Detection of Motor Dysfunction With Wearable Sensors in Patients With Idiopathic Rapid Eye Movement Disorder. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 627481.	2.0	6
102	Striatal Subdivisions Estimated via Deep Embedded Clustering With Application to Parkinson's Disease. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3564-3575.	3.9	6
103	MPTP Induces Systemic Parkinsonism in Middle-Aged Cynomolgus Monkeys: Clinical Evolution and Outcomes. <i>Neuroscience Bulletin</i> , 2017, 33, 17-27.	1.5	5
104	The Prevalence and Clinical Characteristics of Essential Tremor in Elderly Chinese: A Population-Based Study. <i>Journal of Nutrition, Health and Aging</i> , 2020, 24, 1061-1065.	1.5	4
105	Early morning off in patients with Parkinson's disease: a Chinese nationwide study and a 7-question screening scale. <i>Translational Neurodegeneration</i> , 2020, 9, 29.	3.6	4
106	Hypomethylation of SNCA in Idiopathic REM Sleep Behavior Disorder Associated With Phenoconversion. <i>Movement Disorders</i> , 2021, 36, 955-962.	2.2	4
107	Altered Cerebellar Resting-State Functional Connectivity in Early-Stage Parkinson's Disease Patients With Cognitive Impairment. <i>Frontiers in Neurology</i> , 2021, 12, 678013.	1.1	4
108	Postural Tremor Is Associated with Gait and Balance Impairments in Community-Dwelling Older People. <i>Journal of the American Geriatrics Society</i> , 2019, 67, 799-803.	1.3	3

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109	Education Moderates the Association of Probable REM Sleep Behavior Disorder With Cognitive and Motor Impairments in Community-Dwelling Older People. <i>Frontiers in Neurology</i> , 2020, 11, 109.	1.1	3
110	Apolipoprotein E Polymorphism and Frailty: Apolipoprotein ϵ 4 Allele Is Associated with Fatigue but Not Frailty Syndrome in a Community-Dwelling Older Population Cohort. <i>Journal of Nutrition, Health and Aging</i> , 2021, 25, 410-415.	1.5	3
111	The influence of probable rapid eye movement sleep behavior disorder and sleep insufficiency on fall risk in a community-dwelling elderly population. <i>BMC Geriatrics</i> , 2021, 21, 606.	1.1	3
112	Altered Functional Segregated Sensorimotor, Associative, and Limbic Cortical-Striatal Connections in Parkinson's Disease: An fMRI Investigation. <i>Frontiers in Neurology</i> , 2021, 12, 720293.	1.1	3
113	Changes of Amide Proton Transfer Imaging in Multiple System Atrophy Parkinsonism Type. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 572421.	1.7	2
114	Reply to the letter "Waist circumference or sarcopenic obesity; which is more predictive?". <i>Aging Clinical and Experimental Research</i> , 2019, 31, 1539-1540.	1.4	1
115	Functional localization in the brain of a cynomolgus monkey based on spike pattern recognition with machine learning. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 15469-15476.	3.3	1
116	Progressive supranuclear palsy presenting with hyperkinetic movement disorder and hemiplegic dystonia: a case report. <i>International Journal of Neuroscience</i> , 2020, 130, 1278-1281.	0.8	1
117	DISCRIMINATIVE ANALYSIS OF NEUROMYELITIS OPTICA USING TWODIMENSIONAL HISTOGRAM FROM DIFFUSION TENSOR IMAGING. , 2007, , .		0
118	ASSOCIATION OF SOCIAL FRAILTY WITH PHYSICAL FUNCTION AND NEUROPSYCHOLOGICAL STATUS AMONG OLDER ADULTS. <i>Innovation in Aging</i> , 2018, 2, 829-829.	0.0	0
119	Alterations of Striatal Subregions in a Prion Protein Gene V180I Mutation Carrier Presented as Frontotemporal Dementia With Parkinsonism. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 830602.	1.7	0