Takeshi Iwatsubo

List of Publications by Year
in descending order

120 papers	20,642 citations	53794 45 h-index	17105 122 g-index
150 all docs	150 docs citations	150 times ranked	20945 citing authors

#	Article	IF	Citations
1	Toward defining the preclinical stages of Alzheimer's disease: Recommendations from the National Institute on Aging–Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. Alzheimer's and Dementia, 2011, 7, 280-292.	0.8	5,550
2	Î±-Synuclein is phosphorylated in synucleinopathy lesions. Nature Cell Biology, 2002, 4, 160-164.	10.3	1,739
3	Visualization of AÎ²42(43) and AÎ²40 in senile plaques with end-specific AÎ² monoclonals: Evidence that an initially deposited species is AÎ²42(43). Neuron, 1994, 13, 45-53.	8.1	1,673
4	APP Processing and Synaptic Function. Neuron, 2003, 37, 925-937.	8.1	1,423
5	Phase 3 Trials of Solanezumab for Mild-to-Moderate Alzheimer's Disease. New England Journal of Medicine, 2014, 370, 311-321.	27.0	1,387
6	A Phase 3 Trial of Semagacestat for Treatment of Alzheimer's Disease. New England Journal of Medicine, 2013, 369, 341-350.	27.0	1,005
7	The role of presenilin cofactors in the Î³-secretase complex. Nature, 2003, 422, 438-441.	27.8	839
8	Glial cytoplasmic inclusions in white matter oligodendrocytes of multiple system atrophy brains contain insoluble ?-synuclein. Annals of Neurology, 1998, 44, 415-422.	5.3	633
9	The Amyloid-Î² Pathway in Alzheimer's Disease. Molecular Psychiatry, 2021, 26, 5481-5503.	7.9	478
10	Alzheimer's AÎ²(1–42) is generated in the endoplasmic reticulum/intermediate compartment of NT2N cells. Nature Medicine, 1997, 3, 1021-1023.	30.7	462
11	Amyloid ? protein (A?) deposition: A?42(43) precedes A?40 in down Syndrome. Annals of Neurology, 1995, 37, 294-299.	5.3	378
12	CSF biomarker variability in the Alzheimer's Association quality control program. Alzheimer's and Dementia, 2013, 9, 251-261.	0.8	344
13	Fatal attractions: abnormal protein aggregation and neuron death in Parkinson's disease and Lewy body dementia. Cell Death and Differentiation, 1998, 5, 832-837.	11.2	272
14	GTP Binding Is Essential to the Protein Kinase Activity of LRRK2, a Causative Gene Product for Familial Parkinson's Disease†. Biochemistry, 2007, 46, 1380-1388.	2.5	246
15	LRRK2 and its substrate Rab GTPases are sequentially targeted onto stressed lysosomes and maintain their homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9115-E9124.	7.1	222
16	Chronic Optogenetic Activation Augments AÎ² Pathology in a Mouse Model of Alzheimer Disease. Cell Reports, 2015, 11, 859-865.	6.4	186
17	CLAC: a novel Alzheimer amyloid plaque component derived from a transmembrane precursor, CLAC-P/collagen type XXV. EMBO Journal, 2002, 21, 1524-1534.	7.8	184
18	The Î³-secretase complex: machinery for intramembrane proteolysis. Current Opinion in Neurobiology, 2004, 14, 379-383.	4.2	169

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19	Pick's disease is associated with mutations in thetau gene. Annals of Neurology, 2000, 48, 859-867.	5.3	131
20	LRRK2 and RAB7L1 coordinately regulate axonal morphology and lysosome integrity in diverse cellular contexts. Scientific Reports, 2016, 6, 29945.	3.3	111
21	A novel mutation at position +12 in the intron following Exon 10 of the tau gene in familial frontotemporal dementia (FTD-Kumamoto). Annals of Neurology, 2000, 47, 422-429.	5.3	109
22	Familial amyotrophic lateral sclerosis and parkinsonism-dementia complex of the Kii peninsula of Japan: Clinical and neuropathological study and tau analysis. Annals of Neurology, 2001, 49, 501-511.	5.3	108
23	C Terminus of Presenilin Is Required for Overproduction of Amyloidogenic Aβ42 through Stabilization and Endoproteolysis of Presenilin. Journal of Neuroscience, 1999, 19, 10627-10634.	3.6	104
24	Aβ Immunotherapy: Intracerebral Sequestration of Aβ by an Anti-Aβ Monoclonal Antibody 266 with High Affinity to Soluble Aβ. Journal of Neuroscience, 2009, 29, 11393-11398.	3.6	103
25	Extracellular α-synuclein levels are regulated by neuronal activity. Molecular Neurodegeneration, 2018, 13, 9.	10.8	100
26	The Tottori (D7N) and English (H6R) Familial Alzheimer Disease Mutations Accelerate Aβ Fibril Formation without Increasing Protofibril Formation. Journal of Biological Chemistry, 2007, 282, 4916-4923.	3.4	96
27	Glymphatic system clears extracellular tau and protects from tau aggregation and neurodegeneration. Journal of Experimental Medicine, 2022, 219, .	8.5	93
28	Japanese and North American Alzheimer's Disease Neuroimaging Initiative studies: Harmonization for international trials. Alzheimer's and Dementia, 2018, 14, 1077-1087.	0.8	83
29	Mutant Presenilin 2 Transgenic Mouse: Effect on an Age-Dependent Increase of Amyloid β-Protein 42 in the Brain. Journal of Neurochemistry, 1998, 71, 313-322.	3.9	81
30	Japanese Alzheimer's Disease Neuroimaging Initiative: Present status and future. Alzheimer's and Dementia, 2010, 6, 297-299.	0.8	81
31	Variant Alzheimer Disease With Spastic paraparesis: Neuropathological phenotype. Journal of Neuropathology and Experimental Neurology, 2001, 60, 483-492.	1.7	78
32	Decreased CALM expression reduces Aβ42 to total Aβ ratio through clathrin-mediated endocytosis of γ-secretase. Nature Communications, 2014, 5, 3386.	12.8	78
33	Parkinson's disease-associated mutant LRRK2 phosphorylates Rab7L1 and modifies trans-Golgi morphology. Biochemical and Biophysical Research Communications, 2018, 495, 1708-1715.	2.1	78
34	Co-localization of α-synuclein and phosphorylated tau in neuronal and glial cytoplasmic inclusions in a patient with multiple system atrophy of long duration. Acta Neuropathologica, 2001, 101, 285-293.	7.7	74
35	Differential effects of diet- and genetically-induced brain insulin resistance on amyloid pathology in a mouse model of Alzheimer's disease. Molecular Neurodegeneration, 2019, 14, 15.	10.8	74
36	Allosteric regulation of γ-secretase activity by a phenylimidazole-type γ-secretase modulator. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10544-10549.	7.1	72

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37	Neuron-specific methylome analysis reveals epigenetic regulation and tau-related dysfunction of BRCA1 in Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9645-E9654.	7.1	72
38	Comprehensive phosphoproteome analysis unravels the core signaling network that initiates the earliest synapse pathology in preclinical Alzheimer's disease brain. Human Molecular Genetics, 2015, 24, 540-558.	2.9	70
39	RNA binding mediates neurotoxicity in the transgenic Drosophila model of TDP-43 proteinopathy. Human Molecular Genetics, 2013, 22, 4474-4484.	2.9	68
40	BIN1 regulates BACE1 intracellular trafficking and amyloid-β production. Human Molecular Genetics, 2016, 25, ddw146.	2.9	67
41	Structural Interactions between Inhibitor and Substrate Docking Sites Give Insight into Mechanisms of Human PS1 Complexes. Structure, 2014, 22, 125-135.	3.3	56
42	CLAC Binds to Amyloid β Peptides through the Positively Charged Amino Acid Cluster within the Collagenous Domain 1 and Inhibits Formation of Amyloid Fibrils. Journal of Biological Chemistry, 2005, 280, 8596-8605.	3.4	52
43	Aggregation of ?-synuclein in the pathogenesis of Parkinson?s disease. Journal of Neurology, 2003, 250, 1-1.	3.6	49
44	Roles of lysosomotropic agents on LRRK2 activation and Rab10 phosphorylation. Neurobiology of Disease, 2020, 145, 105081.	4.4	49
45	Monoclonal antibodies to purified cortical lewy bodies recognize the mid-size neurofilament subunit. Annals of Neurology, 1997, 42, 595-603.	5.3	48
46	Cooperative Roles of Hydrophilic Loop 1 and the C-Terminus of Presenilin 1 in the Substrate-Gating Mechanism of γ-Secretase. Journal of Neuroscience, 2015, 35, 2646-2656.	3.6	48
47	Facial nerve palsy following the administration of COVID-19 mRNA vaccines: analysis of a self-reporting database. International Journal of Infectious Diseases, 2021, 111, 310-312.	3.3	48
48	Patterns and severity of vascular amyloid in Alzheimer's disease associated with duplications and missense mutations in APP gene, Down syndrome and sporadic Alzheimer's disease. Acta Neuropathologica, 2018, 136, 569-587.	7.7	47
49	The Emerging Functions of LRRK2 and Rab GTPases in the Endolysosomal System. Frontiers in Neuroscience, 2020, 14, 227.	2.8	47
50	Role of Apolipoprotein E in β-Amyloidogenesis. Journal of Biological Chemistry, 2015, 290, 15163-15174.	3.4	46
51	CLAC-P/Collagen Type XXV Is Required for the Intramuscular Innervation of Motoneurons during Neuromuscular Development. Journal of Neuroscience, 2014, 34, 1370-1379.	3.6	41
52	Loss of kallikrein-related peptidase 7 exacerbates amyloid pathology in Alzheimer's disease model mice. EMBO Molecular Medicine, 2018, 10, .	6.9	39
53	Comparison between brain <scp>CT</scp> and <scp>MRI</scp> for voxel-based morphometry of <scp>A</scp>lzheimer's disease. Brain and Behavior, 2013, 3, 487-493.	2.2	34
54	State-of-the-art of lumbar puncture and its place in the journey of patients with Alzheimer's disease. Alzheimer's and Dementia, 2022, 18, 159-177.	0.8	33

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55	THIS ARTICLE HAS BEEN RETRACTED: Pathological biochemistry of α‐synucleinopathy. Neuropathology, 2007, 27, 474-478.	1.2	31
56	Peripheral and central effects of γ-secretase inhibition by semagacestat in Alzheimer's disease. Alzheimer's Research and Therapy, 2015, 7, 36.	6.2	31
57	Phantom criteria for qualification of brain FDG and amyloid PET across different cameras. EJNMMI Physics, 2016, 3, 23.	2.7	31
58	Sample Size Estimation for Alzheimer's Disease Trials from Japanese ADNI Serial Magnetic Resonance Imaging. Journal of Alzheimer's Disease, 2017, 56, 75-88.	2.6	31
59	Mostly Separate Distributions of CLAC- versus Aβ40- or Thioflavin S-Reactivities in Senile Plaques Reveal Two Distinct Subpopulations of β-Amyloid Deposits. American Journal of Pathology, 2004, 165, 273-281.	3.8	30
60	Lack of Correlation between the Kinase Activity of LRRK2 Harboring Kinase-Modifying Mutations and Its Phosphorylation at Ser910, 935, and Ser955. PLoS ONE, 2014, 9, e97988.	2.5	27
61	Chronic cerebral hypoperfusion shifts the equilibrium of amyloid β oligomers to aggregation-prone species with higher molecular weight. Scientific Reports, 2019, 9, 2827.	3.3	27
62	Behavioral and electrophysiological evidence for a neuroprotective role of aquaporin-4 in the 5xFAD transgenic mice model. Acta Neuropathologica Communications, 2020, 8, 67.	5.2	27
63	Long non-coding RNA NEAT1_1 ameliorates TDP-43 toxicity in in vivo models of TDP-43 proteinopathy. RNA Biology, 2021, 18, 1546-1554.	3.1	27
64	Calcium-responsive transactivator (CREST) protein shares a set of structural and functional traits with other proteins associated with amyotrophic lateral sclerosis. Molecular Neurodegeneration, 2015, 10, 20.	10.8	25
65	Synthetic ceramide analogues increase amyloid-β 42 production by modulating γ-secretase activity. Biochemical and Biophysical Research Communications, 2015, 457, 194-199.	2.1	24
66	Partial loss of CALM function reduces Aβ42 production and amyloid deposition *in vivo*. Human Molecular Genetics, 2016, 25, 3988-3997.	2.9	24
67	The Worldwide Alzheimer's Disease Neuroimaging Initiative: ADNI‐3 updates and global perspectives. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2021, 7, e12226.	3.7	23
68	Bunina bodies in neurons of the medullary reticular formation in amyotrophic lateral sclerosis. Acta Neuropathologica, 1993, 85, 471-4.	7.7	20
69	Effects of sex, educational background, and chronic kidney disease grading on longitudinal cognitive and functional decline in patients in the Japanese Alzheimer's Disease Neuroimaging Initiative study. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2018, 4, 765-774.	3.7	20
70	Effect of apolipoprotein E ε4 allele on the progression of cognitive decline in the early stage of Alzheimer's disease. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2020, 6, e12007.	3.7	20
71	Targeting MicroRNA-485-3p Blocks Alzheimer's Disease Progression. International Journal of Molecular Sciences, 2021, 22, 13136.	4.1	20
72	Single Chain Variable Fragment against Nicastrin Inhibits the γ-Secretase Activity. Journal of Biological Chemistry, 2009, 284, 27838-27847.	3.4	19

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73	Differential Effects of Familial Parkinson Mutations in LRRK2 Revealed by a Systematic Analysis of Autophosphorylation. Biochemistry, 2013, 52, 6052-6062.	2.5	19
74	Self-assembly of FUS through its low-complexity domain contributes to neurodegeneration. Human Molecular Genetics, 2018, 27, 1353-1365.	2.9	19
75	ALS-linked cytoplasmic FUS assemblies are compositionally different from physiological stress granules and sequester hnRNPA3, a novel modifier of FUS toxicity. Neurobiology of Disease, 2022, 162, 105585.	4.4	19
76	Familial Amyotrophic Lateral Sclerosis-linked Mutations in Profilin 1 Exacerbate TDP-43-induced Degeneration in the Retina of Drosophila melanogaster through an Increase in the Cytoplasmic Localization of TDP-43. Journal of Biological Chemistry, 2016, 291, 23464-23476.	3.4	17
77	Collagen XXV promotes myoblast fusion during myogenic differentiation and muscle formation. Scientific Reports, 2019, 9, 5878.	3.3	17
78	Clinical and cognitive characteristics of preclinical Alzheimer's disease in the Japanese Alzheimer's Disease Neuroimaging Initiative cohort. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2018, 4, 645-651.	3.7	16
79	Roles of Collagen XXV and Its Putative Receptors PTPÏƒ/Î´ in Intramuscular Motor Innervation and Congenital Cranial Dysinnervation Disorder. Cell Reports, 2019, 29, 4362-4376.e6.	6.4	16
80	Lower Serum Calcium as a Potentially Associated Factor for Conversion of Mild Cognitive Impairment to Early Alzheimerâ€™s Disease in the Japanese Alzheimerâ€™s Disease Neuroimaging Initiative. Journal of Alzheimer's Disease, 2019, 68, 777-788.	2.6	15
81	Assembly and activation of the Î³-secretase complex: roles of presenilin cofactors. Molecular Psychiatry, 2004, 9, 8-10.	7.9	14
82	Seeding Activity-Based Detection Uncovers the Different Release Mechanisms of Seed-Competent Tau Versus Inert Tau via Lysosomal Exocytosis. Frontiers in Neuroscience, 2019, 13, 1258.	2.8	14
83	Linking the Mini-Mental State Examination, the Alzheimerâ€™s Disease Assessment Scaleâ€"Cognitive Subscale and the Severe Impairment Battery: evidence from individual participant data from five randomised clinical trials of donepezil. Evidence-Based Mental Health, 2021, 24, 56-61.	4.5	14
84	A novel non-canonical Notch signaling regulates expression of synaptic vesicle proteins in excitatory neurons. Scientific Reports, 2016, 6, 23969.	3.3	13
85	Collagenous Alzheimer amyloid plaque component impacts on the compaction of amyloid-Î² plaques. Acta Neuropathologica Communications, 2020, 8, 212.	5.2	13
86	A Novel Method to Estimate Longâ€‘Term Chronological Changes From Fragmented Observations in Disease Progression. Clinical Pharmacology and Therapeutics, 2019, 105, 436-447.	4.7	12
87	Visualizing modules of coordinated structural brain atrophy during the course of conversion to Alzheimer's disease by applying methodology from gene co-expression analysis. NeuroImage: Clinical, 2019, 24, 101957.	2.7	11
88	Characterization of the unique In Vitro effects of unsaturated fatty acids on the formation of amyloid Î² fibrils. PLoS ONE, 2019, 14, e0219465.	2.5	11
89	Identification of prognostic factors to predict cognitive decline of patients with early Alzheimer's disease in the Japanese Alzheimer's Disease Neuroimaging Initiative study. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2019, 5, 364-373.	3.7	11
90	The impact of COVID-19 pandemic on the utilization of ambulatory care for patients with chronic neurological diseases in Japan: Evaluation of an administrative claims database. BioScience Trends, 2021, 15, 219-230.	3.4	11

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91	Predicting amyloid risk by machine learning algorithms based on the A4 screen data: Application to the Japanese Trial-Ready Cohort study. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2021, 7, e12135.	3.7	11
92	Automated Evaluation of Conventional Clock-Drawing Test Using Deep Neural Network: Potential as a Mass Screening Tool to Detect Individuals With Cognitive Decline. Frontiers in Neurology, 2022, 13, 896403.	2.4	11
93	Differential involvement of insulin receptor substrate (IRS)-1 and IRS-2 in brain insulin signaling is associated with the effects on amyloid pathology in a mouse model of Alzheimer's disease. Neurobiology of Disease, 2021, 159, 105510.	4.4	9
94	New photocleavable linker: α-Thioacetophenone-type linker. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 2831-2833.	2.2	7
95	Evaluation of PiB visual interpretation with CSF Aβ and longitudinal SUVR in J-ADNI study. Annals of Nuclear Medicine, 2020, 34, 108-118.	2.2	7
96	Pick's disease is associated with mutations in the tau gene. Annals of Neurology, 2000, 48, 859-867.	5.3	7
97	Lipid flippase dysfunction as a therapeutic target for endosomal anomalies in Alzheimer's disease. IScience, 2022, 25, 103869.	4.1	7
98	Dissection of the polygenic architecture of neuronal Aβ production using a large sample of individual iPSC lines derived from Alzheimer's disease patients. Nature Aging, 2022, 2, 125-139.	11.6	7
99	Attempt to Predict A/T/N-Based Alzheimer's Disease Cerebrospinal Fluid Biomarkers Using a Peripheral Blood DNA Methylation Clock. Journal of Alzheimer's Disease Reports, 2020, 4, 287-296.	2.2	6
100	Tauroursodeoxycholic Acid Attenuates Diet-Induced and Age-Related Peripheral Endoplasmic Reticulum Stress and Cerebral Amyloid Pathology in a Mouse Model of Alzheimer's Disease. journal of prevention of Alzheimer's disease, The, 2021, 8, 1-12.	2.7	6
101	A novel mutation at position +12 in the intron following Exon 10 of the tau gene in familial frontotemporal dementia (FTD-Kumamoto). Annals of Neurology, 2000, 47, 422-429.	5.3	6
102	Amyloid .BETA. Peptides and Presenilins in the Pathogenesis of Alzheimer's Disease.. Acta Histochemica Et Cytochemica, 1999, 32, 13-15.	1.6	5
103	Imago Mundi, Imago AD, Imago ADNI. Alzheimer's Research and Therapy, 2014, 6, 62.	6.2	5
104	Calcium-responsive transactivator (CREST) toxicity is rescued by loss of PBP1/ATXN2 function in a novel yeast proteinopathy model and in transgenic flies. PLoS Genetics, 2019, 15, e1008308.	3.5	5
105	Linking the Clinical Dementia Rating Scale-Sum of Boxes, the Clinician's Interview-Based Impression Plus Caregiver Input, and the Clinical Global Impression Scale: Evidence based on Individual Participant Data from Five Randomized Clinical Trials of Donepezil. Journal of Alzheimer's Disease, 2021, 82, 1075-1084.	2.6	5
106	Early- and subsequent- response of cognitive functioning in Alzheimer's disease: Individual-participant data from five pivotal randomized clinical trials of donepezil. Journal of Psychiatric Research, 2022, 148, 159-164.	3.1	5
107	Efficacy and Cost-effectiveness of Promotion Methods to Recruit Participants to an Online Screening Registry for Alzheimer Disease Prevention Trials: Observational Study. Journal of Medical Internet Research, 2021, 23, e26284.	4.3	4
108	Alzheimer disease research in Japan: public funding. Nature Medicine, 2006, 12, 778-779.	30.7	3

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109	Experts' perception of support for people with dementia and their families during the COVID â€19 pandemic. Geriatrics and Gerontology International, 2021, , .	1.5	3
110	Tauopathy: An overview. Neuropathology, 2006, 26, 455-456.	1.2	2
111	Cognitive impairment networks in Alzheimer's disease: Analysis of three double-blind randomized, placebo-controlled, clinical trials of donepezil. European Neuropsychopharmacology, 2022, 57, 50-58.	0.7	2
112	Dementia of Old People: Recent Advances in Epidemiology, Diagnosis, Treatment, Care, and Research 2. Molecular Pathogenesis of Alzheimer's Disease. Internal Medicine, 2003, 42, 312.	0.7	1
113	Quantifying the heterogeneity of cognitive functioning in Alzheimerâ€™s disease to extend the placebo-treatment dichotomy: Latent class analysis of individual-participant data from five pivotal randomized clinical trials of donepezil. European Psychiatry, 2021, 64, e16.	0.2	1
114	Alzheimerâ€™s Disease Research in Japan: A Short History, Current Status and Future Perspectives toward Prevention. journal of prevention of Alzheimer's disease, The, 2021, 8, 1-3.	2.7	1
115	Time to onset of drug-induced parkinsonism: Analysis using a large Japanese adverse event self-reporting database. BioScience Trends, 2022, , .	3.4	1
116	Discussions on role of neprilysin and degradating system. Psychogeriatrics, 2004, 4, S13-S18.	1.2	0
117	Discussions on laminin as possible biomarkers for neurodegenerative dementia. Psychogeriatrics, 2004, 4, S39-S44.	1.2	0
118	Discussions on phosphorylated tau and other biochemical markers. Psychogeriatrics, 2004, 4, S45-S50.	1.2	0
119	VI. Lifestyle Diseases and Dementia: Update on Pathophysiology, Prevention, and Treatment. The Journal of the Japanese Society of Internal Medicine, 2019, 108, 701-707.	0.0	0
120	Molecular pathogenesis of Alzheimer's disease. Internal Medicine, 2003, 42, 312.	0.7	0