

Hyoung-Gon Lee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

7,291
citations

44
h-index

85
g-index

97
ext. papers

8,114
ext. citations

5.6
avg, IF

5.49
L-index

#	Paper	IF	Citations
94	Impaired balance of mitochondrial fission and fusion in Alzheimer's disease. <i>Journal of Neuroscience</i> , 2009 , 29, 9090-103	6.6	816
93	Oxidative stress and mitochondrial dysfunction in Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1240-7	6.9	690
92	Oxidative stress signalling in Alzheimer's disease. <i>Brain Research</i> , 2004 , 1000, 32-9	3.7	337
91	Impaired mitochondrial biogenesis contributes to mitochondrial dysfunction in Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2012 , 120, 419-29	6	318
90	The role of mitogen-activated protein kinase pathways in Alzheimer's disease. <i>NeuroSignals</i> , 2002 , 11, 270-81	1.9	291
89	Modulation of hippocampal plasticity and cognitive behavior by short-term blueberry supplementation in aged rats. <i>Nutritional Neuroscience</i> , 2004 , 7, 309-16	3.6	237
88	Role of metal dyshomeostasis in Alzheimer's disease. <i>Metallomics</i> , 2011 , 3, 267-70	4.5	227
87	Alzheimer disease, the two-hit hypothesis: an update. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2007 , 1772, 494-502	6.9	201
86	Tau phosphorylation in Alzheimer's disease: pathogen or protector?. <i>Trends in Molecular Medicine</i> , 2005 , 11, 164-9	11.5	184
85	The sirtuin pathway in ageing and Alzheimer disease: mechanistic and therapeutic considerations. <i>Lancet Neurology</i> , 2011 , 10, 275-9	24.1	158
84	Challenging the amyloid cascade hypothesis: senile plaques and amyloid-beta as protective adaptations to Alzheimer disease. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1019, 1-4	6.5	150
83	From aging to Alzheimer's disease: unveiling "the switch" with the senescence-accelerated mouse model (SAMP8). <i>Journal of Alzheimer's Disease</i> , 2008 , 15, 615-24	4.3	149
82	4-Oxo-2-nonenal is both more neurotoxic and more protein reactive than 4-hydroxy-2-nonenal. <i>Chemical Research in Toxicology</i> , 2005 , 18, 1219-31	4	135
81	Ectopic localization of phosphorylated histone H3 in Alzheimer's disease: a mitotic catastrophe?. <i>Acta Neuropathologica</i> , 2003 , 105, 524-8	14.3	135
80	Amyloid-beta in Alzheimer disease: the null versus the alternate hypotheses. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007 , 321, 823-9	4.7	131
79	Alzheimer disease pathology as a host response. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008 , 67, 523-31	3.1	129
78	Current approaches in the treatment of Alzheimer's disease. <i>Biomedicine and Pharmacotherapy</i> , 2008 , 62, 199-207	7.5	118

77	Reexamining Alzheimer's disease: evidence for a protective role for amyloid-beta protein precursor and amyloid-beta. <i>Journal of Alzheimer's Disease</i> , 2009 , 18, 447-52	4.3	111
76	Neuronal cell cycle re-entry mediates Alzheimer disease-type changes. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2007 , 1772, 467-72	6.9	111
75	Neuropathology of Alzheimer disease: pathognomonic but not pathogenic. <i>Acta Neuropathologica</i> , 2006 , 111, 503-9	14.3	108
74	Evidence of DNA damage in Alzheimer disease: phosphorylation of histone H2AX in astrocytes. <i>Age</i> , 2008 , 30, 209-15		101
73	Cellular prion protein is essential for oligomeric amyloid- β -induced neuronal cell death. <i>Human Molecular Genetics</i> , 2012 , 21, 1138-44	5.6	98
72	Neuroprotective effects of the amylin analogue pramlintide on Alzheimer's disease pathogenesis and cognition. <i>Neurobiology of Aging</i> , 2014 , 35, 793-801	5.6	97
71	Oxidative imbalance in Alzheimer's disease. <i>Molecular Neurobiology</i> , 2005 , 31, 205-17	6.2	97
70	Cell cycle re-entry mediated neurodegeneration and its treatment role in the pathogenesis of Alzheimer's disease. <i>Neurochemistry International</i> , 2009 , 54, 84-8	4.4	96
69	Amyloid beta: the alternate hypothesis. <i>Current Alzheimer Research</i> , 2006 , 3, 75-80	3	82
68	Signal transduction cascades associated with oxidative stress in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2007 , 11, 143-52	4.3	79
67	Neuronal failure in Alzheimer's disease: a view through the oxidative stress looking-glass. <i>Neuroscience Bulletin</i> , 2014 , 30, 243-52	4.3	78
66	The neuronal expression of MYC causes a neurodegenerative phenotype in a novel transgenic mouse. <i>American Journal of Pathology</i> , 2009 , 174, 891-7	5.8	65
65	Pathological implications of cell cycle re-entry in Alzheimer disease. <i>Expert Reviews in Molecular Medicine</i> , 2010 , 12, e19	6.7	62
64	Posttranslational modifications of β tubulin in Alzheimer disease. <i>Translational Neurodegeneration</i> , 2015 , 4, 9	10.3	60
63	Oxidative stress and neuronal adaptation in Alzheimer disease: the role of SAPK pathways. <i>Antioxidants and Redox Signaling</i> , 2003 , 5, 571-6	8.4	60
62	Ectopic expression of phospho-Smad2 in Alzheimer's disease: uncoupling of the transforming growth factor-beta pathway?. <i>Journal of Neuroscience Research</i> , 2006 , 84, 1856-61	4.4	56
61	A β plaque-selective NIR fluorescence probe to differentiate Alzheimer's disease from tauopathies. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 54-61	11.8	53
60	Cell cycle deregulation in the neurons of Alzheimer's disease. <i>Results and Problems in Cell Differentiation</i> , 2011 , 53, 565-76	1.4	53

59	Aberrant expression of metabotropic glutamate receptor 2 in the vulnerable neurons of Alzheimer's disease. <i>Acta Neuropathologica</i> , 2004 , 107, 365-71	14.3	53
58	Perspectives on the amyloid-beta cascade hypothesis. <i>Journal of Alzheimer's Disease</i> , 2004 , 6, 137-45	4.3	51
57	Antioxidant protection and neurodegenerative disease: the role of amyloid-beta and tau. <i>American Journal of Alzheimer's Disease and Other Dementias</i> , 2006 , 21, 126-30	2.5	49
56	Amyloid-beta in Alzheimer's disease: the horse or the cart? Pathogenic or protective?. <i>International Journal of Experimental Pathology</i> , 2005 , 86, 133-8	2.8	48
55	Early induction of oxidative stress in mouse model of Alzheimer disease with reduced mitochondrial superoxide dismutase activity. <i>PLoS ONE</i> , 2012 , 7, e28033	3.7	47
54	Biomarkers in Alzheimer's disease: past, present and future. <i>Biomarkers in Medicine</i> , 2010 , 4, 15-26	2.3	47
53	Direct and indirect roles of cyclin-dependent kinase 5 as an upstream regulator in the c-Jun NH2-terminal kinase cascade: relevance to neurotoxic insults in Alzheimer's disease. <i>Molecular Biology of the Cell</i> , 2009 , 20, 4611-9	3.5	47
52	Neuroprotective properties of Bcl-w in Alzheimer disease. <i>Journal of Neurochemistry</i> , 2004 , 89, 1233-40	6	46
51	Distribution, levels, and activation of MEK1 in Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2003 , 86, 136-42	6	46
50	BRCA1 may modulate neuronal cell cycle re-entry in Alzheimer disease. <i>International Journal of Medical Sciences</i> , 2007 , 4, 140-5	3.7	44
49	Mfn2 ablation causes an oxidative stress response and eventual neuronal death in the hippocampus and cortex. <i>Molecular Neurodegeneration</i> , 2018 , 13, 5	19	43
48	Causes versus effects: the increasing complexities of Alzheimer's disease pathogenesis. <i>Expert Review of Neurotherapeutics</i> , 2010 , 10, 683-91	4.3	43
47	Aberrant localization of importin alpha1 in hippocampal neurons in Alzheimer disease. <i>Brain Research</i> , 2006 , 1124, 1-4	3.7	42
46	Individual Case Analysis of Postmortem Interval Time on Brain Tissue Preservation. <i>PLoS ONE</i> , 2016 , 11, e0151615	3.7	42
45	Nuclear and mitochondrial DNA oxidation in Alzheimer's disease. <i>Free Radical Research</i> , 2012 , 46, 565-76	46	39
44	P38 activation mediates amyloid-beta cytotoxicity. <i>Neurochemical Research</i> , 2005 , 30, 791-6	4.6	38
43	Molecular pathogenesis of Alzheimer's disease: reductionist versus expansionist approaches. <i>International Journal of Molecular Sciences</i> , 2009 , 10, 1386-406	6.3	37
42	Neuropathology and treatment of Alzheimer disease: did we lose the forest for the trees?. <i>Expert Review of Neurotherapeutics</i> , 2007 , 7, 473-85	4.3	36

41	Inhibition of Polo-like kinase 1 reduces beta-amyloid-induced neuronal cell death in Alzheimer's disease. <i>Aging</i> , 2011 , 3, 846-51	5.6	34
40	Cell cycle re-entry and mitochondrial defects in myc-mediated hypertrophic cardiomyopathy and heart failure. <i>PLoS ONE</i> , 2009 , 4, e7172	3.7	32
39	The effect of mGluR2 activation on signal transduction pathways and neuronal cell survival. <i>Brain Research</i> , 2009 , 1249, 244-50	3.7	32
38	The role of metabotropic glutamate receptors in Alzheimer's disease. <i>Acta Neurobiologiae Experimentalis</i> , 2004 , 64, 89-98	1	32
37	Consequences of RNA oxidation on protein synthesis rate and fidelity: implications for the pathophysiology of neuropsychiatric disorders. <i>Biochemical Society Transactions</i> , 2017 , 45, 1053-1066	5.1	31
36	Differential regulation of glutamate receptors in Alzheimer's disease. <i>NeuroSignals</i> , 2002 , 11, 282-92	1.9	29
35	Mitogen- and stress-activated protein kinase 1: convergence of the ERK and p38 pathways in Alzheimer's disease. <i>Journal of Neuroscience Research</i> , 2005 , 79, 554-60	4.4	28
34	The cell cycle regulator phosphorylated retinoblastoma protein is associated with tau pathology in several tauopathies. <i>Journal of Neuropathology and Experimental Neurology</i> , 2011 , 70, 578-87	3.1	27
33	Ectopic localization of FOXO3a protein in Lewy bodies in Lewy body dementia and Parkinson's disease. <i>Molecular Neurodegeneration</i> , 2009 , 4, 32	19	27
32	The mitochondrial dynamics of Alzheimer's disease and Parkinson's disease offer important opportunities for therapeutic intervention. <i>Current Pharmaceutical Design</i> , 2011 , 17, 3374-80	3.3	26
31	Emerging evidence for the neuroprotective role of alpha-synuclein. <i>Experimental Neurology</i> , 2006 , 200, 1-7	5.7	25
30	Retinoblastoma protein phosphorylation at multiple sites is associated with neurofibrillary pathology in Alzheimer disease. <i>International Journal of Clinical and Experimental Pathology</i> , 2008 , 1, 134-46	1.4	24
29	Novel therapeutics for Alzheimer's disease: an update. <i>Current Opinion in Drug Discovery & Development</i> , 2010 , 13, 235-46		23
28	Regulation of RhoA activity by the cellular prion protein. <i>Cell Death and Disease</i> , 2017 , 8, e2668	9.8	21
27	Gclc deficiency in mouse CNS causes mitochondrial damage and neurodegeneration. <i>Human Molecular Genetics</i> , 2017 , 26, 1376-1390	5.6	19
26	Modification of amyloid- β -42 fibril structure by methionine-35 oxidation. <i>Journal of Alzheimer's Disease</i> , 2013 , 37, 9-18	4.3	18
25	Widespread distribution of reticulon-3 in various neurodegenerative diseases. <i>Neuropathology</i> , 2010 , 30, 574-9	2	18
24	Amyloid-beta vaccination: testing the amyloid hypothesis?: heads we win, tails you lose!. <i>American Journal of Pathology</i> , 2006 , 169, 738-9	5.8	18

23	Neuronal cell cycle re-entry markers are altered in the senescence accelerated mouse P8 (SAMP8). <i>Journal of Alzheimer's Disease</i> , 2012 , 30, 573-83	4.3	17
22	Will preventing protein aggregates live up to its promise as prophylaxis against neurodegenerative diseases?. <i>Brain Pathology</i> , 2003 , 13, 630-8	6	17
21	The (un)balance between metabolic and oxidative abnormalities and cellular compensatory responses in Alzheimer disease. <i>Mechanisms of Ageing and Development</i> , 2006 , 127, 501-6	5.6	16
20	Staying connected: synapses in Alzheimer disease. <i>American Journal of Pathology</i> , 2004 , 165, 1461-4	5.8	15
19	Accumulation of intraneuronal amyloid- β s common in normal brain. <i>Current Alzheimer Research</i> , 2014 , 11, 317-24	3	14
18	The essential role of ERK in 4-oxo-2-nonenal-mediated cytotoxicity in SH-SY5Y human neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2009 , 108, 1434-41	6	13
17	BRG1 and BRM function antagonistically with c-MYC in adult cardiomyocytes to regulate conduction and contractility. <i>Journal of Molecular and Cellular Cardiology</i> , 2017 , 105, 99-109	5.8	11
16	Mislocalization of CDK11/PITSLRE, a regulator of the G2/M phase of the cell cycle, in Alzheimer disease. <i>Cellular and Molecular Biology Letters</i> , 2011 , 16, 359-72	8.1	11
15	Adiponectin-mimetic novel nonapeptide rescues aberrant neuronal metabolic-associated memory deficits in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2021 , 16, 23	19	11
14	Presenilin mutation: a deadly first hit in Alzheimer disease. A commentary on "aging sensitizes towards ROS formation and lipid peroxidation in PS1M146L transgenic mice". <i>Free Radical Biology and Medicine</i> , 2006 , 40, 737-9	7.8	6
13	Amyloid-beta, BACE, and oxidative stress in Alzheimer's disease, a commentary on "The different aggregation state of beta-amyloid 1-42 mediates different effects on oxidative stress, neurodegeneration and BACE-1 expression". <i>Free Radical Biology and Medicine</i> , 2006 , 41, 188-9	7.8	5
12	In Vitro Seeding Activity of Glycoform-Deficient Prions from Variably Protease-Sensitive Prionopathy and Familial CJD Associated with PrP Mutation. <i>Molecular Neurobiology</i> , 2019 , 56, 5456-5469	6.2	5
11	Therapeutic potential of oxidative stress reduction in Alzheimer's disease. <i>Future Neurology</i> , 2006 , 1, 1-4	1.5	4
10	The sterol regulatory element-binding protein 2 is dysregulated by tau alterations in Alzheimer disease. <i>Brain Pathology</i> , 2019 , 29, 530-543	6	4
9	Neurogenesis in Human Hippocampus: Implications for Alzheimer Disease Pathogenesis. <i>Neuroembryology and Aging</i> , 2006 , 4, 175-182		2
8	Pathology's new role: defining disease process and protective responses. <i>International Journal of Clinical and Experimental Pathology</i> , 2008 , 1, 1-4	1.4	2
7	Selective Peripheral Taste Dysfunction in APP/PS1 Mutant Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2020 , 76, 613-621	4.3	1
6	The fallacy of amyloid and cognition in Alzheimer's disease. <i>Drugs and Aging</i> , 2006 , 23, 179	4.7	1

- 5 Neurodegenerative processes in Alzheimer's disease: an overview of pathogenesis with strategic biomarker potential. *Future Neurology*, **2011**, 6, 173-185 1.5
- 4 Oxidative Damage is Correlated with Mitochondrial Autophagy. *FASEB Journal*, **2015**, 29, 613.1 0.9
- 3 Oxidative Stress Associated Signal Transduction Cascades in Alzheimer Disease **2009**, 121-136
- 2 Oxidative Stress and Alzheimer Disease: Mechanisms and Therapeutic Opportunities. *Advances in Neurobiology*, **2011**, 607-631 2.1
- 1 R-_-Lipoic Acid as a Potent Agent of Mitochondrial Protection in Alzheimer's Disease. *Oxidative Stress and Disease*, **2012**, 455-467