

Christian J Pike

List of Publications by Citations

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101
papers

9,727
citations

55
h-index

98
g-index

117
ext. papers

10,511
ext. citations

5
avg. IF

6.37
L-index

#	Paper	IF	Citations
101	In vitro aging of beta-amyloid protein causes peptide aggregation and neurotoxicity. <i>Brain Research</i> , 1991 , 563, 311-4	3.7	806
100	Structure-activity analyses of beta-amyloid peptides: contributions of the beta 25-35 region to aggregation and neurotoxicity. <i>Journal of Neurochemistry</i> , 1995 , 64, 253-65	6	570
99	Progesterone receptors: form and function in brain. <i>Frontiers in Neuroendocrinology</i> , 2008 , 29, 313-39	8.9	434
98	Protective actions of sex steroid hormones in Alzheimer's disease. <i>Frontiers in Neuroendocrinology</i> , 2009 , 30, 239-58	8.9	345
97	Estrogen modulates neuronal Bcl-xL expression and beta-amyloid-induced apoptosis: relevance to Alzheimer's disease. <i>Journal of Neurochemistry</i> , 1999 , 72, 1552-63	6	303
96	Beta-amyloid deposition and other measures of neuropathology predict cognitive status in Alzheimer's disease. <i>Neurobiology of Aging</i> , 1996 , 17, 921-33	5.6	278
95	Thrombin induces apoptosis in cultured neurons and astrocytes via a pathway requiring tyrosine kinase and RhoA activities. <i>Journal of Neuroscience</i> , 1997 , 17, 5316-26	6.6	275
94	Aggregation-related toxicity of synthetic beta-amyloid protein in hippocampal cultures. <i>European Journal of Pharmacology</i> , 1991 , 207, 367-8		267
93	Amino-terminal deletions enhance aggregation of beta-amyloid peptides in vitro. <i>Journal of Biological Chemistry</i> , 1995 , 270, 23895-8	5.4	245
92	Progesterone and estrogen regulate Alzheimer-like neuropathology in female 3xTg-AD mice. <i>Journal of Neuroscience</i> , 2007 , 27, 13357-65	6.6	243
91	Estrogen and exercise interact to regulate brain-derived neurotrophic factor mRNA and protein expression in the hippocampus. <i>European Journal of Neuroscience</i> , 2001 , 14, 1992-2002	3.5	233
90	Brain levels of sex steroid hormones in men and women during normal aging and in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2011 , 32, 604-13	5.6	190
89	Sex and the development of Alzheimer's disease. <i>Journal of Neuroscience Research</i> , 2017 , 95, 671-680	4.4	188
88	Beta-amyloid-induced neuronal apoptosis involves c-Jun N-terminal kinase-dependent downregulation of Bcl-w. <i>Journal of Neuroscience</i> , 2005 , 25, 1149-58	6.6	178
87	Testosterone attenuates beta-amyloid toxicity in cultured hippocampal neurons. <i>Brain Research</i> , 2001 , 919, 160-5	3.7	178
86	Ca ²⁺ channel blockers attenuate beta-amyloid peptide toxicity to cortical neurons in culture. <i>Journal of Neurochemistry</i> , 1994 , 62, 372-5	6	173
85	Sex differences in amyloid accumulation in 3xTg-AD mice: role of neonatal sex steroid hormone exposure. <i>Brain Research</i> , 2010 , 1366, 233-45	3.7	164

84	Age-related testosterone depletion and the development of Alzheimer disease. <i>JAMA - Journal of the American Medical Association</i> , 2004 , 292, 1431-2	27.4	159
83	Gender, sex steroid hormones, and Alzheimer's disease. <i>Hormones and Behavior</i> , 2013 , 63, 301-7	3.7	158
82	Androgens activate mitogen-activated protein kinase signaling: role in neuroprotection. <i>Journal of Neurochemistry</i> , 2005 , 94, 1639-51	6	142
81	Early association of reactive astrocytes with senile plaques in Alzheimer's disease. <i>Experimental Neurology</i> , 1995 , 132, 172-9	5.7	137
80	Ultrastructural analysis of beta-amyloid-induced apoptosis in cultured hippocampal neurons. <i>Brain Research</i> , 1994 , 661, 147-56	3.7	128
79	Norepinephrine induces BDNF and activates the PI-3K and MAPK cascades in embryonic hippocampal neurons. <i>Cellular Signalling</i> , 2007 , 19, 114-28	4.9	126
78	Androgens regulate the development of neuropathology in a triple transgenic mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2006 , 26, 13384-9	6.6	125
77	beta-Amyloid induces neuritic dystrophy in vitro: similarities with Alzheimer pathology. <i>NeuroReport</i> , 1992 , 3, 769-72	1.7	118
76	Differential induction of immediate early gene proteins in cultured neurons by beta-amyloid (A beta): association of c-Jun with A beta-induced apoptosis. <i>Journal of Neurochemistry</i> , 1995 , 65, 1487-98	6	114
75	Androgens modulate beta-amyloid levels in male rat brain. <i>Journal of Neurochemistry</i> , 2003 , 87, 1052-5	6	106
74	Alzheimer-associated presenilin-2 confers increased sensitivity to apoptosis in PC12 cells. <i>FEBS Letters</i> , 1996 , 397, 50-4	3.8	105
73	beta-Amyloid neurotoxicity: a discussion of in vitro findings. <i>Neurobiology of Aging</i> , 1992 , 13, 587-90	5.6	105
72	Estrogen activates protein kinase C in neurons: role in neuroprotection. <i>Journal of Neurochemistry</i> , 2003 , 84, 1340-8	6	104
71	Ligand for translocator protein reverses pathology in a mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2013 , 33, 8891-7	6.6	103
70	Estrogen regulates Bcl-w and Bim expression: role in protection against beta-amyloid peptide-induced neuronal death. <i>Journal of Neuroscience</i> , 2007 , 27, 1422-33	6.6	103
69	Alzheimer's disease and type 2 diabetes: multiple mechanisms contribute to interactions. <i>Current Diabetes Reports</i> , 2014 , 14, 476	5.6	102
68	Androgen cell signaling pathways involved in neuroprotective actions. <i>Hormones and Behavior</i> , 2008 , 53, 693-705	3.7	102
67	Beta-amyloid neurotoxicity in vitro: evidence of oxidative stress but not protection by antioxidants. <i>Journal of Neurochemistry</i> , 1997 , 69, 1601-11	6	97

66	Androgens modulate neuronal vulnerability to kainate lesion. <i>Neuroscience</i> , 2003 , 122, 573-8	3.9	97
65	Sex hormones, aging, and Alzheimer's disease. <i>Frontiers in Bioscience - Elite</i> , 2012 , 4, 976-97	1.6	83
64	Testosterone regulation of Alzheimer-like neuropathology in male 3xTg-AD mice involves both estrogen and androgen pathways. <i>Brain Research</i> , 2010 , 1359, 281-90	3.7	82
63	Age-related changes in neuroactive steroid levels in 3xTg-AD mice. <i>Neurobiology of Aging</i> , 2013 , 34, 1080-8	5.8	79
62	All-D-enantiomers of beta-amyloid exhibit similar biological properties to all-L-beta-amyloids. <i>Journal of Biological Chemistry</i> , 1997 , 272, 7431-6	5.4	76
61	Selective estrogen receptor modulators differentially regulate Alzheimer-like changes in female 3xTg-AD mice. <i>Endocrinology</i> , 2008 , 149, 2607-11	4.8	76
60	beta-Amyloid peptides induce degeneration of cultured rat microglia. <i>Brain Research</i> , 1993 , 624, 121-5	3.7	76
59	Continuous and cyclic progesterone differentially interact with estradiol in the regulation of Alzheimer-like pathology in female 3xTransgenic-Alzheimer's disease mice. <i>Endocrinology</i> , 2010 , 151, 2713-22	4.8	75
58	Rational pattern design for in vitro cellular networks using surface photochemistry. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994 , 12, 607-616	2.9	75
57	Sex-specific effects of high fat diet on indices of metabolic syndrome in 3xTg-AD mice: implications for Alzheimer's disease. <i>PLoS ONE</i> , 2013 , 8, e78554	3.7	74
56	Androgen regulation of beta-amyloid protein and the risk of Alzheimer's disease. <i>Brain Research Reviews</i> , 2008 , 57, 444-53		73
55	Thrombin attenuates neuronal cell death and modulates astrocyte reactivity induced by beta-amyloid in vitro. <i>Journal of Neurochemistry</i> , 1996 , 66, 1374-82	6	71
54	Androgens regulate neprilysin expression: role in reducing beta-amyloid levels. <i>Journal of Neurochemistry</i> , 2008 , 105, 2477-88	6	65
53	The perimenopausal aging transition in the female rat brain: decline in bioenergetic systems and synaptic plasticity. <i>Neurobiology of Aging</i> , 2015 , 36, 2282-2295	5.6	64
52	Progestins inhibit the neuroprotective effects of estrogen in rat hippocampus. <i>Brain Research</i> , 2006 , 1099, 206-10	3.7	58
51	Interactions between inflammation, sex steroids, and Alzheimer's disease risk factors. <i>Frontiers in Neuroendocrinology</i> , 2016 , 43, 60-82	8.9	57
50	Progesterone inhibits estrogen-mediated neuroprotection against excitotoxicity by down-regulating estrogen receptor- α . <i>Journal of Neurochemistry</i> , 2010 , 115, 1277-87	6	56
49	Androgens selectively protect against apoptosis in hippocampal neurones. <i>Journal of Neuroendocrinology</i> , 2010 , 22, 1013-22	3.8	56

48	Androgens, aging, and Alzheimer's disease. <i>Endocrine</i> , 2006 , 29, 233-41		56
47	Neuroprotective properties of selective estrogen receptor agonists in cultured neurons. <i>Brain Research</i> , 2005 , 1045, 217-23	3.7	55
46	Menopause, obesity and inflammation: interactive risk factors for Alzheimer's disease. <i>Frontiers in Aging Neuroscience</i> , 2015 , 7, 130	5.3	54
45	Exercise increases the vulnerability of rat hippocampal neurons to kainate lesion. <i>Brain Research</i> , 2003 , 971, 239-44	3.7	54
44	The APOE4 allele shows opposite sex bias in microbleeds and Alzheimer's disease of humans and mice. <i>Neurobiology of Aging</i> , 2016 , 37, 47-57	5.6	53
43	Flutamide and cyproterone acetate exert agonist effects: induction of androgen receptor-dependent neuroprotection. <i>Endocrinology</i> , 2007 , 148, 2936-43	4.8	51
42	Diet-induced obesity and low testosterone increase neuroinflammation and impair neural function. <i>Journal of Neuroinflammation</i> , 2014 , 11, 162	10.1	49
41	17 β -Estradiol and progesterone regulate expression of β -amyloid clearance factors in primary neuron cultures and female rat brain. <i>Endocrinology</i> , 2012 , 153, 5467-79	4.8	49
40	The Oxygen Paradox, the French Paradox, and age-related diseases. <i>GeroScience</i> , 2017 , 39, 499-550	8.9	48
39	Progesterone attenuates oestrogen neuroprotection via downregulation of oestrogen receptor expression in cultured neurones. <i>Journal of Neuroendocrinology</i> , 2009 , 21, 77-81	3.8	48
38	Calretinin-immunoreactive neurons are resistant to beta-amyloid toxicity in vitro. <i>Brain Research</i> , 1995 , 671, 293-8	3.7	46
37	Obesity and sex interact in the regulation of Alzheimer's disease. <i>Neuroscience and Biobehavioral Reviews</i> , 2016 , 67, 102-18	9	45
36	Continuous versus cyclic progesterone exposure differentially regulates hippocampal gene expression and functional profiles. <i>PLoS ONE</i> , 2012 , 7, e31267	3.7	44
35	Obesity Accelerates Alzheimer-Related Pathology in but not Mice. <i>ENeuro</i> , 2017 , 4,	3.9	43
34	Progesterone blocks estrogen neuroprotection from kainate in middle-aged female rats. <i>Neuroscience Letters</i> , 2008 , 445, 229-32	3.3	41
33	Estrogen regulates bcl-x expression in rat hippocampus. <i>NeuroReport</i> , 2001 , 12, 2797-800	1.7	41
32	Humanin Prevents Age-Related Cognitive Decline in Mice and is Associated with Improved Cognitive Age in Humans. <i>Scientific Reports</i> , 2018 , 8, 14212	4.9	38
31	Attenuation of beta-amyloid neurotoxicity in vitro by potassium-induced depolarization. <i>Journal of Neurochemistry</i> , 1996 , 67, 1774-7	6	36

30	Evaluation of the effects of testosterone and luteinizing hormone on regulation of β amyloid in male 3xTg-AD mice. <i>Brain Research</i> , 2012 , 1466, 137-45	3.7	33
29	Sex hormones aging and Alzheimer s disease. <i>Frontiers in Bioscience - Elite</i> , 2012 , E4, 976-997	1.6	33
28	Dihydrotestosterone activates CREB signaling in cultured hippocampal neurons. <i>Brain Research</i> , 2009 , 1298, 1-12	3.7	31
27	APOE genotype and sex affect microglial interactions with plaques in Alzheimer's disease mice. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 82	7.3	28
26	TLR4 inhibitor TAK-242 attenuates the adverse neural effects of diet-induced obesity. <i>Journal of Neuroinflammation</i> , 2018 , 15, 306	10.1	28
25	Age-related changes in serum and brain levels of androgens in male Brown Norway rats. <i>NeuroReport</i> , 2009 , 20, 1534-7	1.7	27
24	Caspase activation contributes to astrogliosis. <i>Brain Research</i> , 2012 , 1450, 102-15	3.7	26
23	Conventional protein kinase C isoforms mediate neuroprotection induced by phorbol ester and estrogen. <i>Journal of Neurochemistry</i> , 2006 , 96, 204-17	6	26
22	Age-dependent regulation of obesity and Alzheimer-related outcomes by hormone therapy in female 3xTg-AD mice. <i>PLoS ONE</i> , 2017 , 12, e0178490	3.7	18
21	beta-Amyloid increases enzyme activity and protein levels of glutamine synthetase in cultured astrocytes. <i>Experimental Neurology</i> , 1996 , 139, 167-71	5.7	16
20	TSPO ligand PK11195 improves Alzheimer-related outcomes in aged female 3xTg-AD mice. <i>Neuroscience Letters</i> , 2018 , 683, 7-12	3.3	16
19	Selective androgen receptor modulator RAD140 is neuroprotective in cultured neurons and kainate-lesioned male rats. <i>Endocrinology</i> , 2014 , 155, 1398-406	4.8	15
18	The synthetic estrogen 4-estren-3 alpha,17 beta-diol (estren) induces estrogen-like neuroprotection. <i>Neurobiology of Disease</i> , 2005 , 19, 331-9	7.5	15
17	The influence of the carboxyl terminus of the Alzheimer Abeta peptide on its conformation, aggregation, and neurotoxic properties. <i>NeuroMolecular Medicine</i> , 2002 , 1, 81-94	4.6	14
16	Effects of aging, high-fat diet, and testosterone treatment on neural and metabolic outcomes in male brown Norway rats. <i>Neurobiology of Aging</i> , 2019 , 73, 145-160	5.6	11
15	Differential effects of synthetic progestagens on neuron survival and estrogen neuroprotection in cultured neurons. <i>Molecular and Cellular Endocrinology</i> , 2014 , 384, 52-60	4.4	9
14	APOE genotype affects metabolic and Alzheimer-related outcomes induced by Western diet in female EFAD mice. <i>FASEB Journal</i> , 2019 , 33, 4054-4066	0.9	7
13	Aging Reduces Estradiol Protection Against Neural but Not Metabolic Effects of Obesity in Female 3xTg-AD Mice. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 113	5.3	5

12	Dementia risk in women higher in same-sex than opposite-sex twins. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2020 , 12, e12049	5.2	4
11	Deconvolution of the confounding variations for reverse transcription quantitative real-time polymerase chain reaction by separate analysis of biological replicate data. <i>Analytical Biochemistry</i> , 2012 , 427, 21-5	3.1	4
10	Impact of continuous versus discontinuous progesterone on estradiol regulation of neuron viability and sprouting after entorhinal cortex lesion in female rats. <i>Endocrinology</i> , 2015 , 156, 1091-9	4.8	3
9	Author's response to commentaries. <i>Neurobiology of Aging</i> , 1996 , 17, 945-947	5.6	3
8	Staining and Quantification of β Amyloid Pathology in Transgenic Mouse Models of Alzheimer's Disease. <i>Methods in Molecular Biology</i> , 2020 , 2144, 211-221	1.4	2
7	Testosterone regulates Alzheimer's disease pathogenesis242-250		1
6	Microglial transcription profiles in mouse and human are driven by APOE4 and sex. <i>iScience</i> , 2021 , 24, 103238	6.1	1
5	Second to fourth digit ratio (2D:4D) is associated with dementia in women. <i>Early Human Development</i> , 2020 , 149, 105152	2.2	1
4	P3-406: THE ROLE OF STEROID BIOSYNTHESIS IN THE PROTECTIVE ACTIONS OF LIGANDS FOR THE TRANSLOCATOR PROTEIN (TSPO) 2014 , 10, P779-P779		
3	Progesterone regulation of neuroprotective estrogen actions101-109		
2	Apoptosis in Alzheimer's Disease. <i>Advances in Behavioral Biology</i> , 1998 , 45-51		
1	TRANSCRIPTOMIC PROFILING OF MICROGLIA FROM AN ALZHEIMER'S DISEASE MOUSE MODEL AND FROM HUMAN INDUCED PLURIPOTENT STEM CELLS REVEALS EFFECTS OF THE APOE4 GENOTYPE 2019 , 15, P238-P239		