M K O'banion

List of Publications by Year
in descending order

129 papers	15,650 citations	41344 49 h-index	16650 123 g-index
132 all docs	132 docs citations	132 times ranked	17778 citing authors

#	Article	IF	Citations
1	Inflammation and Alzheimer's disease. Neurobiology of Aging, 2000, 21, 383-421.	3.1	4,069
2	Neuroinflammation and M2 microglia: the good, the bad, and the inflamed. Journal of Neuroinflammation, 2014, 11, 98.	7.2	1,285
3	cDNA cloning and functional activity of a glucocorticoid-regulated inflammatory cyclooxygenase.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 4888-4892.	7.1	782
4	Inflammatory processes in Alzheimer's disease. Journal of Neuroimmunology, 2007, 184, 69-91.	2.3	664
5	The role of interleukin-1 in neuroinflammation and Alzheimer disease: an evolving perspective. Journal of Neuroinflammation, 2008, 5, 7.	7.2	418
6	ALS-causing SOD1 mutants generate vascular changes prior to motor neuron degeneration. Nature Neuroscience, 2008, 11, 420-422.	14.8	409
7	A serum- and glucocorticoid-regulated 4-kilobase mRNA encodes a cyclooxygenase-related protein. Journal of Biological Chemistry, 1991, 266, 23261-7.	3.4	392
8	Neuroinflammatory processes in Alzheimerâ€™s disease. Journal of Neural Transmission, 2010, 117, 919-947.	2.8	380
9	Cyclooxygenase-2: Molecular Biology, Pharmacology, and Neurobiology. Critical Reviews in Neurobiology, 1999, 13, 45-82.	3.1	373
10	Sustained hippocampal IL-1Î² overexpression mediates chronic neuroinflammation and ameliorates Alzheimer plaque pathology. Journal of Clinical Investigation, 2007, 117, 1595-1604.	8.2	357
11	Sustained Interleukin-1Î² Overexpression Exacerbates Tau Pathology Despite Reduced Amyloid Burden in an Alzheimer's Mouse Model. Journal of Neuroscience, 2013, 33, 5053-5064.	3.6	310
12	Inflammatory Responses to Amyloidosis in a Transgenic Mouse Model of Alzheimerâ€™s Disease. American Journal of Pathology, 2001, 158, 1345-1354.	3.8	275
13	Noradrenergic Depletion Potentiates Î²-Amyloid-Induced Cortical Inflammation: Implications for Alzheimer's Disease. Journal of Neuroscience, 2002, 22, 2434-2442.	3.6	231
14	Chronic Interleukin-1Î² Expression in Mouse Brain Leads to Leukocyte Infiltration and Neutrophil-Independent Bloodâ€“Brain Barrier Permeability without Overt Neurodegeneration. Journal of Neuroscience, 2007, 27, 9301-9309.	3.6	225
15	Sustained hippocampal IL-1Î² overexpression impairs contextual and spatial memory in transgenic mice. Brain, Behavior, and Immunity, 2010, 24, 243-253.	4.1	197
16	Viral Disease Transmitted by Laser-Generated Plume (Aerosol). Archives of Dermatology, 2002, 138, 1303.	1.4	191
17	Interleukinâ€•1Î² Induces Prostaglandin G/H Synthaseâ€2 (Cyclooxygenaseâ€2) in Primary Murine Astrocyte Cultures. Journal of Neurochemistry, 1996, 66, 2532-2540.	3.9	181
18	Cyclooxygenase-1 in Human Alzheimer and Control Brain: Quantitative Analysis of Expression by Microglia and CA3 Hippocampal Neurons. Journal of Neuropathology and Experimental Neurology, 1999, 58, 1135-1146.	1.7	171

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19	Galactic Cosmic Radiation Leads to Cognitive Impairment and Increased Aβ Plaque Accumulation in a Mouse Model of Alzheimerâ€™s Disease. PLoS ONE, 2012, 7, e53275.	2.5	171
20	TNFÎ± and IL-1Î² mediate intercellular adhesion molecule-1 induction via microgliaâ€“astrocyte interaction in CNS radiation injury. Journal of Neuroimmunology, 1999, 95, 95-106.	2.3	148
21	Cyclooxygenase-2 modulates brain inflammation-related gene expression in central nervous system radiation injury. Molecular Brain Research, 2002, 104, 159-169.	2.3	142
22	Neuroinflammation and Memory: The Role of Prostaglandins. Molecular Neurobiology, 2009, 40, 15-32.	4.0	140
23	Sustained expression of interleukin-1Î² in mouse hippocampus impairs spatial memory. Neuroscience, 2009, 164, 1484-1495.	2.3	137
24	Noradrenergic depletion increases inflammatory responses in brain: effects on IÎºB and HSP70 expression. Journal of Neurochemistry, 2003, 85, 387-398.	3.9	134
25	Neuroinflammation and anti-inflammatory therapy for Alzheimerâ€™s disease. Advanced Drug Delivery Reviews, 2002, 54, 1627-1656.	13.7	126
26	Exploiting microglial and peripheral immune cell crosstalk to treat Alzheimerâ€™s disease. Journal of Neuroinflammation, 2019, 16, 74.	7.2	125
27	Cranial Irradiation Leads to Acute and Persistent Neuroinflammation with Delayed Increases in T-Cell Infiltration and CD11c Expression in C57BL/6 Mouse Brain. Radiation Research, 2011, 176, 459.	1.5	118
28	Arginase 1+ microglia reduce AÎ² plaque deposition during IL-1Î²-dependent neuroinflammation. Journal of Neuroinflammation, 2015, 12, 203.	7.2	111
29	Enhanced glial activation and expression of specific CNS inflammation-related molecules in aged versus young rats following cortical stab injury. Journal of Neuroimmunology, 2001, 119, 269-277.	2.3	109
30	Targeting innate immunity for neurodegenerative disorders of the central nervous system. Journal of Neurochemistry, 2016, 138, 653-693.	3.9	106
31	Induction of cyclooxygenase-2 in rat vascular smooth muscle cells in vitro and in vivo. Journal of Biological Chemistry, 1994, 269, 8504-9.	3.4	104
32	Cyclooxygenase Inhibition as a Strategy to Ameliorate Brain Injury. Journal of Neurotrauma, 2002, 19, 1-15.	3.4	102
33	Adult murine hippocampal neurogenesis is inhibited by sustained IL-1Î² and not rescued by voluntary running. Brain, Behavior, and Immunity, 2012, 26, 292-300.	4.1	101
34	Deletion or activation of the aryl hydrocarbon receptor alters adult hippocampal neurogenesis and contextual fear memory. Journal of Neurochemistry, 2013, 125, 430-445.	3.9	100
35	Downregulation of neuronal cyclooxygenase-2 expression in end stage Alzheimer's disease. Neurobiology of Aging, 2001, 22, 823-836.	3.1	99
36	Cyclooxygenases in the Central Nervous System: Implications for Treatment of Neurological Disorders. Current Pharmaceutical Design, 2000, 6, 1755-1776.	1.9	93

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37	The Role of COX-1 and COX-2 in Alzheimers Disease Pathology and the Therapeutic Potentials of Non-Steroidal Anti-Inflammatory Drugs. CNS and Neurological Disorders, 2005, 4, 307-315.	4.3	90
38	Osteoarthritis accelerates and exacerbates Alzheimer's disease pathology in mice. Journal of Neuroinflammation, 2011, 8, 112.	7.2	85
39	Soluble E-cadherin: a critical oncogene modulating receptor tyrosine kinases, MAPK and PI3K/Akt/mTOR signaling. Oncogene, 2014, 33, 225-235.	5.9	81
40	COX-3: a splice variant of cyclooxygenase-1 in mouse neural tissue and cells. Molecular Brain Research, 2003, 119, 213-215.	2.3	78
41	Chronic IL-1Î²-Mediated Neuroinflammation Mitigates Amyloid Pathology in a Mouse Model of Alzheimerâ€™s Disease without Inducing Overt Neurodegeneration. Journal of NeuroImmune Pharmacology, 2012, 7, 156-164.	4.1	72
42	Sustained IL-1Î² expression impairs adult hippocampal neurogenesis independent of IL-1 signaling in nestin+ neural precursor cells. Brain, Behavior, and Immunity, 2013, 32, 9-18.	4.1	71
43	Are Ã¢â‚¬Å“RestingÃ¢â‚¬Â•Microglia More Ã¢â‚¬Å“M2Ã¢â‚¬Â?. Frontiers in Immunology, 2014, 5, 594.	4.8	68
44	Central Nervous System Effects of Whole-Body Proton Irradiation. Radiation Research, 2014, 182, 18.	1.5	68
45	ICAM-1 Induction in the Mouse CNS Following Irradiation. Brain, Behavior, and Immunity, 1997, 11, 273-285.	4.1	63
46	Prostaglandin G/H synthase-2 (cyclooxygenase-2) mRNA expression is decreased in Alzheimer's disease. Neurobiology of Aging, 1996, 17, 801-808.	3.1	62
47	Microglial response is poorly correlated with neurodegeneration following chronic, low-dose MPTP administration in monkeys. Experimental Neurology, 2003, 184, 659-668.	4.1	62
48	Adenovirus-Mediated Transgene Expression in Nonhuman Primate Brain. Human Gene Therapy, 1999, 10, 1175-1184.	2.7	54
49	Sequential Down-regulation of E-Cadherin with Squamous Cell Carcinoma Progression: Loss of E-Cadherin via a Prostaglandin E2-EP2â€“Dependent Posttranslational Mechanism. Cancer Research, 2007, 67, 7654-7664.	0.9	54
50	COX-2 and Alzheimerâ€™s disease: potential roles in inflammation and neurodegeneration. Expert Opinion on Investigational Drugs, 1999, 8, 1521-1536.	4.1	51
51	Intraarticular induction of interleukin-1Î² expression in the adult mouse, with resultant temporomandibular joint pathologic changes, dysfunction, and pain. Arthritis and Rheumatism, 2006, 54, 1184-1197.	6.7	51
52	Cyclooxygenaseâ€•1 mediates prostaglandin E₂ elevation and contextual memory impairment in a model of sustained hippocampal interleukinâ€•1Î² expression. Journal of Neurochemistry, 2010, 114, 247-258.	3.9	49
53	Space-like 56Fe irradiation manifests mild, early sex-specific behavioral and neuropathological changes in wildtype and Alzheimerâ€™s-like transgenic mice. Scientific Reports, 2019, 9, 12118.	3.3	49
54	Cranial irradiation mediated spine loss is sex-specific and complement receptor-3 dependent in male mice. Scientific Reports, 2019, 9, 18899.	3.3	47

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55	Interleukinâ€1Î² and Tumor Necrosis Factorâ€Î± Suppress Dexamethasone Induction of Glutamine Synthetase in Primary Mouse Astrocytes. Journal of Neurochemistry, 1998, 71, 1436-1442.	3.9	45
56	Radiation-Induced Edema is Dependent on Cyclooxygenase 2 Activity in Mouse Brain. Radiation Research, 2004, 161, 153-160.	1.5	45
57	Cloning and characterization of an equine cutaneous papillomavirus. Virology, 1986, 152, 100-109.	2.4	44
58	Cyclooxygenase-1 Behaves as a Delayed Response Gene in PC12 Cells Differentiated by Nerve Growth Factor. Journal of Biological Chemistry, 1997, 272, 18534-18537.	3.4	44
59	Chronic Neuron- and Age-Selective Down-Regulation of TNF Receptor Expression in Triple-Transgenic Alzheimer Disease Mice Leads to Significant Modulation of Amyloid- and Tau-Related Pathologies. American Journal of Pathology, 2013, 182, 2285-2297.	3.8	44
60	Nonsteroidal anti-inflammatory drugs in orthodontic tooth movement: Metalloproteinase activity and collagen synthesis by endothelial cells. American Journal of Orthodontics and Dentofacial Orthopedics, 2000, 118, 203-209.	1.7	43
61	Characterization of binge-dosed methamphetamine-induced neurotoxicity and neuroinflammation. NeuroToxicology, 2015, 50, 131-141.	3.0	43
62	Monoclonal Antibody against the Ectodomain of E-Cadherin (DECMA-1) Suppresses Breast Carcinogenesis: Involvement of the HER/PI3K/Akt/mTOR and IAP Pathways. Clinical Cancer Research, 2013, 19, 3234-3246.	7.0	42
63	<i>In Vitro</i> Studies of Glucocorticoid Effects on Neurons and Astrocytesa. Annals of the New York Academy of Sciences, 1994, 746, 243-258.	3.8	40
64	Amelioration of pain and histopathologic joint abnormalities in the Col1-IL-1Î²XAT mouse model of arthritis by intraarticular induction of Î¼-opioid receptor into the temporomandibular joint. Arthritis and Rheumatism, 2007, 56, 2038-2048.	6.7	40
65	Spinal interleukinâ€1Î² in a mouse model of arthritis and joint pain. Arthritis and Rheumatism, 2008, 58, 3100-3109.	6.7	39
66	IL-1Î²-driven amyloid plaque clearance is associated with an expansion of transcriptionally reprogrammed microglia. Journal of Neuroinflammation, 2019, 16, 261.	7.2	38
67	Peripheral blood mononuclear cell infiltration and neuroinflammation in the HexBâˆ’/âˆ’ mouse model of neurodegeneration. Journal of Neuroimmunology, 2008, 203, 50-57.	2.3	35
68	Brain radiation injury leads to a dose- and time-dependent recruitment of peripheral myeloid cells that depends on CCR2 signaling. Journal of Neuroinflammation, 2016, 13, 30.	7.2	35
69	Papillomas and Carcinomas Associated with a Papillomavirus in European Harvest Mice <i>(Micromys) Tj ETQq1 1 0.784314 rgBT /Ov	1.7	34
70	Venereal Papilloma and Papillomavirus in a Colobus Monkey <i>(Colobus guereza)</i>. Intervirology, 1987, 28, 232-237.	2.8	33
71	Cytosolic prostaglandin E2 synthase (cPGES) expression is decreased in discrete cortical regions in psychiatric disease. Brain Research, 2006, 1103, 164-172.	2.2	33
72	Interleukin-1Î² mediated amyloid plaque clearance is independent of CCR2 signaling in the APP/PS1 mouse model of Alzheimer's disease. Neurobiology of Disease, 2014, 69, 124-133.	4.4	33

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73	Inflammatory mechanisms and anti-inflammatory therapy in Alzheimer's disease. Neurobiology of Aging, 1996, 17, 669-671.	3.1	32
74	Regulation of prostaglandin E2 synthesis after brain irradiation. International Journal of Radiation Oncology Biology Physics, 2005, 62, 267-272.	0.8	31
75	Intraparenchymal administration of interleukin-1Î² induces cyclooxygenase-2-mediated expression of membrane- and cytosolic-associated prostaglandin E synthases in mouse brain. Journal of Neuroimmunology, 2004, 148, 32-40.	2.3	28
76	Solubleâ€Eâ€cadherin activates HER and IAP family members in HER2+ and TNBC human breast cancers. Molecular Carcinogenesis, 2014, 53, 893-906.	2.7	28
77	Interleaved Carbon Minibeams: An Experimental Radiosurgery Method With Clinical Potential. International Journal of Radiation Oncology Biology Physics, 2012, 84, 514-519.	0.8	26
78	Addressing the Symptoms or Fixing the Problem? Developing Countermeasures against Normal Tissue Radiation Injury. Radiation Research, 2016, 186, 1-16.	1.5	26
79	Cloning and characterization of a papillomavirus associated with papillomas and carcinomas in the European harvest mouse (Micromys minutus). Journal of Virology, 1988, 62, 226-233.	3.4	26
80	Molecular Cloning and Partial Characterization of a Parrot Papillomavirus. Intervirology, 1992, 33, 91-96.	2.8	24
81	Cloning and characterization of a canine oral papillomavirus. American Journal of Veterinary Research, 1986, 47, 1142-4.	0.6	24
82	Cross-Hybridization and Relationships of Various Papillomavirus DNAs at Different Degrees of Stringency. Intervirology, 1987, 28, 114-121.	2.8	23
83	Corticosterone-responsive mRNAs in primary rat astrocytes. Molecular Brain Research, 1994, 22, 57-68.	2.3	23
84	Regional neuronal loss in aging and Alzheimer's disease: a brief review. Seminars in Neuroscience, 1994, 6, 307-314.	2.2	22
85	Neurogenic Effects of Low-Dose Whole-Body HZE (Fe) Ion and Gamma Irradiation. Radiation Research, 2016, 186, 614-623.	1.5	21
86	Gas6 induces inflammation and reduces plaque burden but worsens behavior in a sex-dependent manner in the APP/PS1 model of Alzheimerâ€™s disease. Journal of Neuroinflammation, 2022, 19, 38.	7.2	20
87	Behavioral, Structural and Molecular Changes following Long-term Hippocampal IL-1Î² Overexpression in Transgenic Mice. Journal of NeuroImmune Pharmacology, 2012, 7, 145-155.	4.1	19
88	Prostaglandin E2 synthases in neurologic homeostasis and disease. Prostaglandins and Other Lipid Mediators, 2010, 91, 113-117.	1.9	17
89	Fractionation enhances acute oligodendrocyte progenitor cell radiation sensitivity and leads to long term depletion. Glia, 2018, 66, 846-861.	4.9	17
90	Enhanced cyclooxygenase-2 expression in olfactory-limbic forebrain following kainate-induced seizures. Neuroscience, 2006, 140, 1051-1065.	2.3	16

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91	Genetic definition of a new bovine papillomavirus type 1 open reading frame, E5B, that encodes a hydrophobic protein involved in altering host-cell protein processing. Journal of Virology, 1993, 67, 3427-3434.	3.4	16
92	Neuroinflammation and Cognitive Dysfunction in Chronic Disease and Aging. Journal of NeuroImmune Pharmacology, 2012, 7, 3-6.	4.1	15
93	Reduced activation and proliferation of human lymphocytes exposed to respiratory syncytial virus compared to cells exposed to influenza virus. Journal of Medical Virology, 2018, 90, 26-33.	5.0	15
94	Effects of concentrated ambient ultrafine particulate matter on hallmarks of Alzheimerâ€™s disease in the 3xTgAD mouse model. NeuroToxicology, 2021, 84, 172-183.	3.0	15
95	Matters of size: Roles of hyaluronan in CNS aging and disease. Ageing Research Reviews, 2021, 72, 101485.	10.9	15
96	Localization and Distribution of Cyclooxygenase-2 in Brain Tissue by Immunohistochemistry. , 1999, 120, 55-66.		13
97	Conditional expression of human Î²-hexosaminidase in the neurons of Sandhoff disease rescues mice from neurodegeneration but not neuroinflammation. Journal of Neuroinflammation, 2012, 9, 186.	7.2	13
98	Two-dimensional gel analysis of secreted proteins induced by interleukin-1Î² in rat astrocytes. Neurochemistry International, 2001, 39, 349-359.	3.8	12
99	Decreased Expression of Prostaglandin G/H Synthase-2 (PGHS-2) in Alzheimerâ€™s Disease Brain. Advances in Experimental Medicine and Biology, 1997, 407, 171-177.	1.6	11
100	Long-Term Sex- and Genotype-Specific Effects of 56Fe Irradiation on Wild-Type and APPswe/PS1dE9 Transgenic Mice. International Journal of Molecular Sciences, 2021, 22, 13305.	4.1	10
101	Cloning and molecular characterization of an oral papillomavirus of domestic rabbits. Virology, 1988, 162, 221-231.	2.4	9
102	X-Ray Microbeam Irradiation of the Contusion-Injured Rat Spinal Cord Temporarily Improves Hind-Limb Function. Radiation Research, 2013, 179, 76-88.	1.5	9
103	Evaluating the Effect of Interleukin-4 in the 3xTg Mouse Model of Alzheimerâ€™s Disease. Frontiers in Neuroscience, 2020, 14, 441.	2.8	9
104	Evaluating Effects of Glatiramer Acetate Treatment on Amyloid Deposition and Tau Phosphorylation in the 3xTg Mouse Model of Alzheimerâ€™s Disease. Frontiers in Neuroscience, 2021, 15, 758677.	2.8	9
105	Developmental regulation and PKC dependence of Alzheimer's-type tau phosphorylations in cultured fetal rat hippocampal neurons. Developmental Brain Research, 1998, 107, 143-158.	1.7	8
106	Does peripheral inflammation contribute to Alzheimer disease?. Neurology, 2014, 83, 480-481.	1.1	8
107	Glial and Neuronal Expression of Cyclooxygenase-2: Relevance to Alzheimerâ€™S Disease. Advances in Experimental Medicine and Biology, 1997, 433, 177-180.	1.6	8
108	Glucocorticoid modulation of transformed cell proliferation is oncogene specific and correlates with effects on c-myc levels.. Molecular Endocrinology, 1992, 6, 1371-1380.	3.7	7

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109	Fractionation Spares Mice From Radiation-Induced Reductions in Weight Gain But Does Not Prevent Late Oligodendrocyte Lineage Side Effects. International Journal of Radiation Oncology Biology Physics, 2016, 96, 449-457.	0.8	7
110	Repopulated microglia induce expression of Cxcl13 with differential changes in Tau phosphorylation but do not impact amyloid pathology. Journal of Neuroinflammation, 2022, 19, .	7.2	7
111	Papillomavirus-associated inductions of cellular proteins in mouse C127 cells: Correlation with the presence of open reading frame E2. Virology, 1989, 172, 170-179.	2.4	6
112	Thermal Injury Lowers the Threshold for Radiation-Induced Neuroinflammation and Cognitive Dysfunction. Radiation Research, 2013, 180, 398-406.	1.5	6
113	Space radiation does not alter amyloid or tau pathology in the 3xTg mouse model of Alzheimer's disease. Life Sciences in Space Research, 2020, 27, 89-98.	2.3	6
114	Cognitively supernormal older adults maintain a unique structural connectome that is resistant to Alzheimerâ€™s pathology. NeuroImage: Clinical, 2020, 28, 102413.	2.7	6
115	Bovine papillomavirus type 1 alters the processing of host glucose- and calcium-modulated endoplasmic reticulum proteins. Journal of Virology, 1991, 65, 3481-3488.	3.4	6
116	Anti-inflammatory glucocorticoid action: inhibition of griPGHS, a new cyclooxygenase. Journal of Lipid Mediators, 1993, 6, 101-11.	0.2	6
117	In Vivo Imaging of the Microglial Landscape After Whole Brain Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2021, 111, 1066-1071.	0.8	5
118	Selective Inhibition of Cyclooxygenase-2 Attenuates Expression of Inflammation-Related Genes in Cns Injury. Advances in Experimental Medicine and Biology, 2002, 507, 155-160.	1.6	5
119	Papillomavirus genomes in experimentally induced fibromas in white-tailed deer. American Journal of Veterinary Research, 1987, 48, 1453-5.	0.6	4
120	It May Take More Than a Shot: Alternatives to Immunotherapy for Alzheimer's Disease. Biological Psychiatry, 2013, 74, 316-317.	1.3	3
121	Cranial irradiation acutely and persistently impairs injury-induced microglial proliferation. Brain, Behavior, & Immunity - Health, 2020, 4, 100057.	2.5	3
122	Acute neuroinflammation and neurogenesis: A role for microglial COX-1. Cell Cycle, 2011, 10, 3819-3819.	2.6	2
123	Prehospital supplemental oxygen for acute stroke â€“ A retrospective analysis. American Journal of Emergency Medicine, 2020, 38, 2324-2328.	1.6	2
124	Calcitonin geneâ€related peptide: An intraâ€articular therapeutic target for TMJ disorders. Clinical and Experimental Dental Research, 0, , .	1.9	2
125	Bovine papillomavirus E5 oncogene stimulates DNA synthesisin C127 fibroblasts without general effects on growth factor responsive protein phosphorylations. Archives of Virology, 1997, 142, 953-964.	2.1	1
126	Restructuring MDâ€“PhD Programs: Career Training or Broad Education?. Academic Medicine, 2009, 84, 407.	1.6	1

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127	Retrospective analysis of the hemodynamic consequences of prehospital supplemental oxygen in acute stroke. American Journal of Emergency Medicine, 2020, 38, 2125-2129.	1.6	1
128	AXL activation leads to reduced amyloid plaque deposition in APP/PSâ€1 mice. Alzheimer's and Dementia, 2020, 16, e046330.	0.8	1
129	Interleukin-1 increases expression of cytosolic and membrane PGE synthase in mouse astrocytes and brain. Journal of Neurochemistry, 2008, 81, 9-13.	3.9	0