Keith A Crutcher

List of Publications by Year
in descending order

113	4,475	66343	110387
papers	citations	42 h-index	64 g-index

117	117	117	2662
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Meta-Analysis of APOE4 Allele and Outcome after Traumatic Brain Injury. Journal of Neurotrauma, 2008, 25, 279-290.	3.4	212
2	Medial septal and nucleus basalis magnocellularis lesions produce order memory deficits in rats which mimic symptomatology of Alzheimer's disease. Neurobiology of Aging, 1986, 7, 287-295.	3.1	171
3	Lymph nodes?A possible site for sympathetic neuronal regulation of immune responses. Annals of Neurology, 1980, 8, 520-525.	5.3	143
4	Truncated Apolipoprotein E (ApoE) Causes Increased Intracellular Calcium and May Mediate ApoE Neurotoxicity. Journal of Neuroscience, 1999, 19, 7100-7110.	3.6	139
5	Sympathetic sprouting in the central nervous system: a model for studies of axonal growth in the mature mammalian brain. Brain Research Reviews, 1987, 12, 203-233.	9.0	128
6	Sympathetic noradrenergic sprouting in response to central cholinergic denervation: A histochemical study of neuronal sprouting in the rat hippocampal formation. Brain Research, 1981, 210, 115-128.	2.2	119
7	Neurotoxicity of the 22 kDa Thrombin-Cleavage Fragment of Apolipoprotein E and Related Synthetic Peptides Is Receptor-Mediated. Journal of Neuroscience, 1997, 17, 5678-5686.	3.6	110
8	The origin of brainstem-spinal pathways in the north american opossum (didelphis virginiana). Studies using the horseradish peroxidase method. Journal of Comparative Neurology, 1978, 179, 169-193.	1.6	107
9	A study of the rat septohippocampal pathway using anterograde transport of horseradish peroxidase. Neuroscience, 1981, 6, 1961-1973.	2.3	100
10	Intracerebral NGF infusion induces hyperinnervation of cerebral blood vessels. Neurobiology of Aging, 1990, 11, 51-55.	3.1	99
11	Nerve growth factor mRNA and protein levels measured in the same tissue from normal and Alzheimer's disease parietal cortex. Molecular Brain Research, 1996, 42, 175-178.	2.3	95
12	Nerve growth factor-induced sprouting of mature, uninjured sympathetic axons. Journal of Comparative Neurology, 1992, 326, 327-336.	1.6	90
13	Tissue sections from the mature rat brain and spinal cord as substrates for neurite outgrowth in vitro: Extensive growth on gray matter but little growth on white matter. Experimental Neurology, 1989, 104, 39-54.	4.1	89
14	A thrombin cleavage fragment of apolipoprotein E exhibits isoform-specific neurotoxicity. NeuroReport, 1996, 7, 2529-2532.	1.2	89
15	ApoE isoforms affect neuronal N-methyl-d-aspartate calcium responses and toxicity via receptor-mediated processes. Neuroscience, 2003, 122, 291-303.	2.3	84
16	Sprouting of sympathetic nerves in the absence of afferent input. Experimental Neurology, 1979, 66, 778-783.	4.1	81
17	The organization of monoamine neurons within the brainstem of the north american opossum (didelphis virginiana). Journal of Comparative Neurology, 1978, 179, 195-221.	1.6	79
18	Evidence for neocortical involvement in reference memory. Behavioral and Neural Biology, 1987, 47, 40-53.	2.2	79

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19	Serial position curves for item (spatial location) information: role of the dorsal hippocampal formation and medial septum. Brain Research, 1988, 454, 219-226.	2.2	79
20	The septohippocampal projection in the rat: An electron microscopic horseradish peroxidase study. Neuroscience, 1983, 10, 685-696.	2.3	78
21	The Receptorâ€Binding Region of Human Apolipoprotein E Has Direct Antiâ€Infective Activity. Journal of Infectious Diseases, 2006, 193, 442-450.	4.0	78
22	Chronic estrogen treatment decreases ÃŸ-adrenergic responses in rat cerebral cortex. Brain Research, 1979, 171, 147-151.	2.2	74
23	Enhanced Neurotrophin-Induced Axon Growth in Myelinated Portions of the CNS in Mice Lacking the p75 Neurotrophin Receptor. Journal of Neuroscience, 1999, 19, 4155-4168.	3.6	68
24	Intraventricular NGF infusion in the mature rat brain enhances sympathetic innervation of cerebrovascular targets but fails to elicit sympathetic ingrowth. Brain Research, 1989, 492, 245-254.	2.2	67
25	Cathepsin D-mediated proteolysis of apolipoprotein E: Possible role in Alzheimerâ€™s disease. Neuroscience, 2006, 143, 689-701.	2.3	67
26	Sympathetic noradrenergic sprouting in response to central cholinergic denervation. Trends in Neurosciences, 1981, 4, 70-72.	8.6	66
27	Hippocampal NGF levels are not reduced in the aged Fischer 344 rat. Neurobiology of Aging, 1991, 12, 449-454.	3.1	65
28	Debate: â€œIs Increasing Neuroinflammation Beneficial for Neural Repair?â€• Journal of NeuroImmune Pharmacology, 2006, 1, 195-211.	4.1	63
29	ProNGF, Sortilin, and Ageâ€related Neurodegeneration. Annals of the New York Academy of Sciences, 2007, 1119, 208-215.	3.8	62
30	Medial septal lesions, radial arm maze performance, and sympathetic sprouting: a study of recovery of function. Brain Research, 1983, 262, 91-98.	2.2	61
31	Entorhinal lesions result in increased nerved growth factor-like growth-promoting activity in medium conditioned by hippocampal slices. Brain Research, 1986, 399, 383-389.	2.2	60
32	NGF-induced remodeling of mature uninjured axon collaterals. Brain Research, 1990, 525, 11-20.	2.2	60
33	Hippocampal Î±- and Î²-adrenergic receptors: comparison of [3H]dihydroalprenolol and [3H]WB 4101 binding with noradrenergic innervation in the rat. Brain Research, 1980, 182, 107-117.	2.2	57
34	Neuronal-vascular relationships in the raphe nuclei, locus coeruleus, and substantia nigra in primates. American Journal of Anatomy, 1979, 155, 467-481.	1.0	53
35	â€˜Matureâ€™ nerve growth factor is a minor species in most peripheral tissues. Neuroscience Letters, 2005, 380, 133-137.	2.1	53
36	Target regulation of sympathetic sprouting in the rat hippocampal formation. Experimental Neurology, 1982, 75, 347-359.	4.1	49

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37	Cellular and molecular pathology in alzheimer's disease. Hippocampus, 1993, 3, 270-287.	1.9	48
38	Sympathohippocampal sprouting is directed by a target tropic factor. Brain Research, 1981, 204, 410-414.	2.2	47
39	Neurite Degeneration Elicited by Apolipoprotein E Peptides. Experimental Neurology, 1994, 130, 120-126.	4.1	47
40	Sympathetic axons invade the brains of mice overexpressing nerve growth factor. Journal of Comparative Neurology, 1997, 383, 60-72.	1.6	47
41	Increased NGF-like activity in young but not aged rat hippocampus after septal lesions. Neurobiology of Aging, 1994, 15, 337-346.	3.1	46
42	Age-related decrease in sympathetic sprouting is primarily due to decreased target receptivity: implications for understanding brain aging. Neurobiology of Aging, 1990, 11, 175-183.	3.1	45
43	Equivalent spatial location memory deficits in rats with medial septum or hippocampal formation lesions and patients with dementia of the Alzheimer's type. Brain and Cognition, 1989, 9, 289-300.	1.8	44
44	A simple, efficient tool for assessment of mice after unilateral cortex injury. Journal of Neuroscience Methods, 2008, 168, 431-442.	2.5	42
45	Rats with nucleus basalis magnocellularis lesions mimic mnemonic symptomatology observed in patients with dementia of the Alzheimer's type.. Behavioral Neuroscience, 1987, 101, 451-456.	1.2	40
46	Memory deficits following nucleus basalis magnocellularis lesions may be mediated through limbic, but not neocortical, targets. Neuroscience, 1990, 38, 93-102.	2.3	38
47	White Matter of the CNS Supports or Inhibits Neurite OutgrowthIn VitroDepending on Geometry. Journal of Neuroscience, 1999, 19, 8358-8366.	3.6	37
48	Fetal Tissue Research: The Cutting Edge?. Linacre quarterly, The, 1993, 60, 10-19.	0.2	35
49	The presence of apoE4, not the absence of apoE3, contributes to AD pathology. Journal of Alzheimer's Disease, 2002, 4, 155-163.	2.6	34
50	The role of NGF in pregnancy-induced degeneration and regeneration of sympathetic nerves in the guinea pig uterus. Journal of the Autonomic Nervous System, 2000, 79, 19-27.	1.9	29
51	Plasticity of mature sensory cerebrovascular axons following intracranial infusion of nerve growth factor. Journal of Comparative Neurology, 1995, 361, 451-460.	1.6	28
52	Differential effects of oestrogen on developing and mature uterine sympathetic nerves. Cell and Tissue Research, 2002, 308, 61-73.	2.9	28
53	Development of the rat septohippocampal projection: a retrograde fluorescent tracer study. Developmental Brain Research, 1982, 3, 145-150.	1.7	27
54	Plasticity in developing rat uterine sensory nerves: the role of NGF and TrkA. Cell and Tissue Research, 2003, 314, 191-205.	2.9	27

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55	Apolipoprotein E Is a Prime Suspect, Not Just an Accomplice, in Alzheimer's Disease. Journal of Molecular Neuroscience, 2004, 23, 181-188.	2.3	27
56	Progress Toward Identification of Protease Activity Involved in Proteolysis of Apolipoprotein E in Human Brain. Journal of Molecular Neuroscience, 2004, 24, 073-080.	2.3	27
57	Descending monoaminergic pathways in the primate spinal cord. American Journal of Anatomy, 1978, 153, 159-164.	1.0	25
58	Extensive target cell loss during development results in mossy fibers in the regio superior (CA1) of the rat hippocampal formation. Developmental Brain Research, 1985, 21, 19-30.	1.7	25
59	Sustained elevation in hippocampal NGF-like biological activity following medial septal lesions in the rat. Brain Research, 1989, 490, 355-360.	2.2	24
60	Nerve growth factor immunoreactivity and sympathetic sprouting in the rat hippocampal formation. Brain Research, 1995, 672, 55-67.	2.2	22
61	Levels of NGF protein do not correlate with changes in innervation of the rat iris in old age. NeuroReport, 1996, 7, 2216-2220.	1.2	22
62	Noradrenergic sprouting in response to cholinergic denervation: The sympathohabenular connection. Experimental Neurology, 1980, 70, 187-191.	4.1	20
63	NGF expression in the aged rat pineal gland does not correlate with loss of sympathetic axonal branches and varicosities. Neurobiology of Aging, 1999, 20, 685-693.	3.1	20
64	Disruption of spinal cord white matter and sciatic nerve geometry inhibits axonal growth in vitro in the absence of glial scarring. BMC Neuroscience, 2001, 2, 8.	1.9	20
65	Inhibition of Apolipoprotein E-Related Neurotoxicity by Glycosaminoglycans and Their Oligosaccharidesâ€. Biochemistry, 2002, 41, 8203-8211.	2.5	20
66	Null mutations for exon III and exon IV of the p75 neurotrophin receptor gene enhance sympathetic sprouting in response to elevated levels of nerve growth factor in transgenic mice. Experimental Neurology, 2006, 198, 416-426.	4.1	20
67	An analysis of the effects of Alzheimer's plaques on living neurons. Neurobiology of Aging, 1993, 14, 207-215.	3.1	19
68	Histochemical studies of sympathetic sprouting: Fluorescence morphology of noradrenergic axons. Brain Research Bulletin, 1982, 9, 501-508.	3.0	18
69	Aging and neuronal plasticity: lessons from a model. Autonomic Neuroscience: Basic and Clinical, 2002, 96, 25-32.	2.8	18
70	Uninjured aged sympathetic neurons sprout in response to exogenous NGF in vivo. Neurobiology of Aging, 1998, 19, 333-339.	3.1	17
71	Apolipoprotein E-Related Neurotoxicity as a Therapeutic Target for Alzheimer's Disease. Journal of Molecular Neuroscience, 2003, 20, 327-338.	2.3	17
72	Evidence for sprouting specificity following medial septal lesions in the rat. Journal of Comparative Neurology, 1985, 237, 116-126.	1.6	16

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73	Tissue sections as culture substrates: Overview and critique. Hippocampus, 1993, 3, 157-163.	1.9	16
74	Sympathohippocampal neurons are inside the bloodâ€"brain barrier. Brain Research, 1981, 213, 183-189.	2.2	15
75	Global expression of NGF promotes sympathetic axonal growth in CNS white matter but does not alter its parallel orientation. Experimental Neurology, 2007, 203, 95-109.	4.1	14
76	Neuronal migration on laminin in vitro. Developmental Brain Research, 1992, 66, 127-132.	1.7	13
77	Putative gliotoxin, Î±-aminoadipic acid, fails to kill hippocampal astrocytes in vivo. Neuroscience Letters, 1987, 81, 215-220.	2.1	12
78	Axonal regeneration on mature human brain tissue sections in culture. Annals of Neurology, 1989, 26, 580-583.	5.3	12
79	Myelin contributes to the parallel orientation of axonal growth on white matter in vitro. BMC Neuroscience, 2001, 2, 9.	1.9	12
80	Evidence for reduced accumulation of exogenous neurotrophin by aged sympathetic neurons. Brain Research, 2002, 948, 24-32.	2.2	12
81	Hippocampus and Dentate Area of the European Hedgehog. Brain, Behavior and Evolution, 1988, 32, 269-276.	1.7	11
82	Rat Microglia Exhibit Increased Density on Alzheimer's Plaquesin Vitro. Experimental Neurology, 1998, 149, 42-50.	4.1	11
83	Reduced sympathetic neurite outgrowth on uterine tissue sections from rats treated with estrogen. Cell and Tissue Research, 2010, 340, 287-301.	2.9	11
84	Association of basal lamina with peripheral axons elongating within the rat central nervous system. Brain Research, 1984, 308, 177-181.	2.2	10
85	Absence of p75NTR expression reduces nerve growth factor immunolocalization in cholinergic septal neurons. Journal of Comparative Neurology, 2000, 427, 54-66.	1.6	9
86	Remodeling of adult sensory axons in the superior cervical ganglion in response to exogenous nerve growth factor. Brain Research, 2000, 864, 252-262.	2.2	9
87	Neonatal septal lesions result in sympathohippocampal innervation in the adult rat. Experimental Neurology, 1982, 76, 1-11.	4.1	8
88	Sympathetic Response to Intracranial NGF Infusion in the Absence of Afferent Input: Axonal Sprouting without Neurotransmitter Production. Experimental Neurology, 1996, 141, 57-66.	4.1	7
89	Sympathetic neurite outgrowth is greater on plaque-poor vs. plaque-rich regions of Alzheimer's disease cryostat sections. Brain Research, 1998, 787, 49-58.	2.2	7
90	Neurite outgrowth on postmortem human brain cryostat sections: Studies of non-alzheimer's and alzheimer's tissue. Experimental Neurology, 1991, 114, 228-236.	4.1	6

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91	Movement of embryonic chick sympathetic neurons on laminin in vitro is preceded by neurite extension. Journal of Neuroscience Research, 1993, 36, 607-620.	2.9	5
92	Absence of sympathetic sprouting in the rat olfactory bulb after cholinergic denervation. Experimental Neurology, 1984, 84, 386-395.	4.1	4
93	Enhanced sympathetic neurite outgrowth on rat hippocampal tissue sections following septal lesions. Brain Research, 1996, 725, 111-114.	2.2	4
94	Sympathetic neurite growth on central nervous system sections is region-specific and unaltered by aging. Neurobiology of Aging, 2000, 21, 629-638.	3.1	4
95	Full-length apolipoprotein E protects against the neurotoxicity of an apoE-related peptide. Brain Research, 2010, 1306, 106-115.	2.2	4
96	Sympathetic axons invade the brains of mice overexpressing nerve growth factor. Journal of Comparative Neurology, 1997, 383, 60-72.	1.6	3
97	ANATOMICAL CORRELATES OF NEURONAL PLASTICITY. , 1986, , 83-123.		3
98	Biochemical and histochemical studies of the effect of reserpine in Aplysia californica. Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1981, 70, 273-276.	0.2	2
99	Down's Syndrome with Alzheimer's Disease-Like Pathology: What Can It Teach Us about the Amyloid Cascade Hypothesis?. International Journal of Alzheimer's Disease, 2010, 2010, 1-7.	2.0	2
100	The Role of Tissue Geometry in Spinal Cord Regeneration. Medicina (Lithuania), 2022, 58, 542.	2.0	2
101	Research on human embryos. Nature, 1990, 343, 10-10.	27.8	1
102	Visualizing Alzheimer's disease research. , 2004, , .		1
103	P2-305 Colocalization of apoE and cathepsin D in Alzheimer's disease brain. Neurobiology of Aging, 2004, 25, S319.	3.1	1
104	P2-300 Proteolysis of apoE in human brain homogenates may involve cathepsin D or related aspartic proteases. Neurobiology of Aging, 2004, 25, S318.	3.1	1
105	A Model of Neuronal Sprouting for Examining the Role of Glia in Axonal Growth. , 1987, , 565-573.		1
106	Neurocognitive Approach to Clustering of PubMed Query Results. Lecture Notes in Computer Science, 2009, , 70-79.	1.3	1
107	Collagen nerve guide tubes in the rat septohippocampal pathway. Restorative Neurology and Neuroscience, 1991, 3, 167-175.	0.7	0
108	Fetal tissue. Nature, 1992, 357, 432-432.	27.8	0

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109	The ethics of fetal tissue grafting should be considered along with the science. Behavioral and Brain Sciences, 1995, 18, 53-54.	0.7	0
110	Challenging Views of Alzheimer's disease. Journal of Alzheimer's Disease, 2002, 4, 129-130.	2.6	0
111	Foreword: Challenging views of Alzheimer's disease â€“ 2004. Journal of Alzheimer's Disease, 2005, 7, 233-233.	2.6	0
112	New Thinking on the Etiology and Pathogenesis of Late-Onset Alzheimer's Disease. International Journal of Alzheimer's Disease, 2011, 2011, 1-2.	2.0	0
113	Segregated neural explants exhibit co-oriented, asymmetric, neurite outgrowth. PLoS ONE, 2019, 14, e0216263.	2.5	0