Keith A Crutcher

List of Publications by Year
in descending order

113 papers	4,475 citations	66343 42 h-index	110387 64 g-index
117 all docs	117 docs citations	117 times ranked	2662 citing authors

#	Article	IF	Citations
1	The Role of Tissue Geometry in Spinal Cord Regeneration. Medicina (Lithuania), 2022, 58, 542.	2.0	2
2	Segregated neural explants exhibit co-oriented, asymmetric, neurite outgrowth. PLoS ONE, 2019, 14, e0216263.	2.5	0
3	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
4	Reduced sympathetic neurite outgrowth on uterine tissue sections from rats treated with estrogen. Cell and Tissue Research, 2010, 340, 287-301.	2.9	11
5	Full-length apolipoprotein E protects against the neurotoxicity of an apoE-related peptide. Brain Research, 2010, 1306, 106-115.	2.2	4
6	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
7	Neurocognitive Approach to Clustering of PubMed Query Results. Lecture Notes in Computer Science, 2009, , 70-79.	1.3	1
8	A simple, efficient tool for assessment of mice after unilateral cortex injury. Journal of Neuroscience Methods, 2008, 168, 431-442.	2.5	42
9	Meta-Analysis of <i>APOE</i>4 Allele and Outcome after Traumatic Brain Injury. Journal of Neurotrauma, 2008, 25, 279-290.	3.4	212
10	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
11	ProNGF, Sortilin, and Ageâ€related Neurodegeneration. Annals of the New York Academy of Sciences, 2007, 1119, 208-215.	3.8	62
12	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
13	Cathepsin D-mediated proteolysis of apolipoprotein E: Possible role in Alzheimerâ€™s disease. Neuroscience, 2006, 143, 689-701.	2.3	67
14	Debate: â€œIs Increasing Neuroinflammation Beneficial for Neural Repair?â€• Journal of NeuroImmune Pharmacology, 2006, 1, 195-211.	4.1	63
15	The Receptorâ€Binding Region of Human Apolipoprotein E Has Direct Antiâ€Infective Activity. Journal of Infectious Diseases, 2006, 193, 442-450.	4.0	78
16	Foreword: Challenging views of Alzheimer's disease â€“ 2004. Journal of Alzheimer's Disease, 2005, 7, 233-233.	2.6	0
17	â€˜Matureâ€™ nerve growth factor is a minor species in most peripheral tissues. Neuroscience Letters, 2005, 380, 133-137.	2.1	53
18	Visualizing Alzheimer's disease research. , 2004, , .		1

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19	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
20	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
21	P2-305 Colocalization of apoE and cathepsin D in Alzheimer's disease brain. Neurobiology of Aging, 2004, 25, S319.	3.1	1
22	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
23	Apolipoprotein E-Related Neurotoxicity as a Therapeutic Target for Alzheimer's Disease. Journal of Molecular Neuroscience, 2003, 20, 327-338.	2.3	17
24	Plasticity in developing rat uterine sensory nerves: the role of NGF and TrkA. Cell and Tissue Research, 2003, 314, 191-205.	2.9	27
25	ApoE isoforms affect neuronal N-methyl-d-aspartate calcium responses and toxicity via receptor-mediated processes. Neuroscience, 2003, 122, 291-303.	2.3	84
26	Inhibition of Apolipoprotein E-Related Neurotoxicity by Glycosaminoglycans and Their Oligosaccharidesâ€. Biochemistry, 2002, 41, 8203-8211.	2.5	20
27	Aging and neuronal plasticity: lessons from a model. Autonomic Neuroscience: Basic and Clinical, 2002, 96, 25-32.	2.8	18
28	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
29	Challenging Views of Alzheimer's disease. Journal of Alzheimer's Disease, 2002, 4, 129-130.	2.6	0
30	Evidence for reduced accumulation of exogenous neurotrophin by aged sympathetic neurons. Brain Research, 2002, 948, 24-32.	2.2	12
31	Differential effects of oestrogen on developing and mature uterine sympathetic nerves. Cell and Tissue Research, 2002, 308, 61-73.	2.9	28
32	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
33	Myelin contributes to the parallel orientation of axonal growth on white matter in vitro. BMC Neuroscience, 2001, 2, 9.	1.9	12
34	Absence of p75NTR expression reduces nerve growth factor immunolocalization in cholinergic septal neurons. Journal of Comparative Neurology, 2000, 427, 54-66.	1.6	9
35	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
36	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

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37	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
38	Truncated Apolipoprotein E (ApoE) Causes Increased Intracellular Calcium and May Mediate ApoE Neurotoxicity. Journal of Neuroscience, 1999, 19, 7100-7110.	3.6	139
39	White Matter of the CNS Supports or Inhibits Neurite Outgrowth<i>In Vitro</i>Depending on Geometry. Journal of Neuroscience, 1999, 19, 8358-8366.	3.6	37
40	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
41	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
42	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
43	Uninjured aged sympathetic neurons sprout in response to exogenous NGF in vivo. Neurobiology of Aging, 1998, 19, 333-339.	3.1	17
44	Rat Microglia Exhibit Increased Density on Alzheimer's Plaquesin Vitro. Experimental Neurology, 1998, 149, 42-50.	4.1	11
45	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
46	Sympathetic axons invade the brains of mice overexpressing nerve growth factor. Journal of Comparative Neurology, 1997, 383, 60-72.	1.6	47
47	Sympathetic axons invade the brains of mice overexpressing nerve growth factor. Journal of Comparative Neurology, 1997, 383, 60-72.	1.6	3
48	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
49	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
50	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
51	A thrombin cleavage fragment of apolipoprotein E exhibits isoform-specific neurotoxicity. NeuroReport, 1996, 7, 2529-2532.	1.2	89
52	Enhanced sympathetic neurite outgrowth on rat hippocampal tissue sections following septal lesions. Brain Research, 1996, 725, 111-114.	2.2	4
53	The ethics of fetal tissue grafting should be considered along with the science. Behavioral and Brain Sciences, 1995, 18, 53-54.	0.7	0
54	Plasticity of mature sensory cerebrovascular axons following intracranial infusion of nerve growth factor. Journal of Comparative Neurology, 1995, 361, 451-460.	1.6	28

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55	Nerve growth factor immunoreactivity and sympathetic sprouting in the rat hippocampal formation. Brain Research, 1995, 672, 55-67.	2.2	22
56	Increased NGF-like activity in young but not aged rat hippocampus after septal lesions. Neurobiology of Aging, 1994, 15, 337-346.	3.1	46
57	Neurite Degeneration Elicited by Apolipoprotein E Peptides. Experimental Neurology, 1994, 130, 120-126.	4.1	47
58	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
59	An analysis of the effects of Alzheimer's plaques on living neurons. Neurobiology of Aging, 1993, 14, 207-215.	3.1	19
60	Fetal Tissue Research: The Cutting Edge?. Linacre quarterly, The, 1993, 60, 10-19.	0.2	35
61	Tissue sections as culture substrates: Overview and critique. Hippocampus, 1993, 3, 157-163.	1.9	16
62	Cellular and molecular pathology in alzheimer's disease. Hippocampus, 1993, 3, 270-287.	1.9	48
63	Neuronal migration on laminin in vitro. Developmental Brain Research, 1992, 66, 127-132.	1.7	13
64	Fetal tissue. Nature, 1992, 357, 432-432.	27.8	0
65	Nerve growth factor-induced sprouting of mature, uninjured sympathetic axons. Journal of Comparative Neurology, 1992, 326, 327-336.	1.6	90
66	Hippocampal NGF levels are not reduced in the aged Fischer 344 rat. Neurobiology of Aging, 1991, 12, 449-454.	3.1	65
67	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
68	Collagen nerve guide tubes in the rat septohippocampal pathway. Restorative Neurology and Neuroscience, 1991, 3, 167-175.	0.7	0
69	Research on human embryos. Nature, 1990, 343, 10-10.	27.8	1
70	Memory deficits following nucleus basalis magnocellularis lesions may be mediated through limbic, but not neocortical, targets. Neuroscience, 1990, 38, 93-102.	2.3	38
71	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
72	Intracerebral NGF infusion induces hyperinnervation of cerebral blood vessels. Neurobiology of Aging, 1990, 11, 51-55.	3.1	99

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73	NGF-induced remodeling of mature uninjured axon collaterals. Brain Research, 1990, 525, 11-20.	2.2	60
74	Axonal regeneration on mature human brain tissue sections in culture. Annals of Neurology, 1989, 26, 580-583.	5.3	12
75	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
76	Sustained elevation in hippocampal NGF-like biological activity following medial septal lesions in the rat. Brain Research, 1989, 490, 355-360.	2.2	24
77	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
78	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
79	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
80	Hippocampus and Dentate Area of the European Hedgehog. Brain, Behavior and Evolution, 1988, 32, 269-276.	1.7	11
81	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
82	Evidence for neocortical involvement in reference memory. Behavioral and Neural Biology, 1987, 47, 40-53.	2.2	79
83	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
84	Putative gliotoxin, Î±-aminoadipic acid, fails to kill hippocampal astrocytes in vivo. Neuroscience Letters, 1987, 81, 215-220.	2.1	12
85	A Model of Neuronal Sprouting for Examining the Role of Glia in Axonal Growth. , 1987, , 565-573.		1
86	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
87	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
88	ANATOMICAL CORRELATES OF NEURONAL PLASTICITY. , 1986, , 83-123.		3
89	Evidence for sprouting specificity following medial septal lesions in the rat. Journal of Comparative Neurology, 1985, 237, 116-126.	1.6	16
90	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

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91	Absence of sympathetic sprouting in the rat olfactory bulb after cholinergic denervation. Experimental Neurology, 1984, 84, 386-395.	4.1	4
92	Association of basal lamina with peripheral axons elongating within the rat central nervous system. Brain Research, 1984, 308, 177-181.	2.2	10
93	The septohippocampal projection in the rat: An electron microscopic horseradish peroxidase study. Neuroscience, 1983, 10, 685-696.	2.3	78
94	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
95	Histochemical studies of sympathetic sprouting: Fluorescence morphology of noradrenergic axons. Brain Research Bulletin, 1982, 9, 501-508.	3.0	18
96	Development of the rat septohippocampal projection: a retrograde fluorescent tracer study. Developmental Brain Research, 1982, 3, 145-150.	1.7	27
97	Neonatal septal lesions result in sympathohippocampal innervation in the adult rat. Experimental Neurology, 1982, 76, 1-11.	4.1	8
98	Target regulation of sympathetic sprouting in the rat hippocampal formation. Experimental Neurology, 1982, 75, 347-359.	4.1	49
99	Sympathohippocampal sprouting is directed by a target tropic factor. Brain Research, 1981, 204, 410-414.	2.2	47
100	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
101	Sympathohippocampal neurons are inside the bloodâ€"brain barrier. Brain Research, 1981, 213, 183-189.	2.2	15
102	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
103	Sympathetic noradrenergic sprouting in response to central cholinergic denervation. Trends in Neurosciences, 1981, 4, 70-72.	8.6	66
104	A study of the rat septohippocampal pathway using anterograde transport of horseradish peroxidase. Neuroscience, 1981, 6, 1961-1973.	2.3	100
105	Lymph nodes?A possible site for sympathetic neuronal regulation of immune responses. Annals of Neurology, 1980, 8, 520-525.	5.3	143
106	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
107	Noradrenergic sprouting in response to cholinergic denervation: The sympathohabenular connection. Experimental Neurology, 1980, 70, 187-191.	4.1	20
108	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

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109	Sprouting of sympathetic nerves in the absence of afferent input. Experimental Neurology, 1979, 66, 778-783.	4.1	81
110	Chronic estrogen treatment decreases ÃŸ-adrenergic responses in rat cerebral cortex. Brain Research, 1979, 171, 147-151.	2.2	74
111	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
112	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
113	Descending monoaminergic pathways in the primate spinal cord. American Journal of Anatomy, 1978, 153, 159-164.	1.0	25