

Simon Akerman

List of Publications by Year in descending order

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90
papers

6,599
citations

61984

43
h-index

64796

79
g-index

90
all docs

90
docs citations

90
times ranked

4342
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathophysiology of Migraine: A Disorder of Sensory Processing. <i>Physiological Reviews</i> , 2017, 97, 553-622.	28.8	1,168
2	Diencephalic and brainstem mechanisms in migraine. <i>Nature Reviews Neuroscience</i> , 2011, 12, 570-584.	10.2	454
3	Neurobiology of migraine. <i>Neuroscience</i> , 2009, 161, 327-341.	2.3	318
4	Calcitonin gene-related peptide (CGRP) modulates nociceptive trigeminovascular transmission in the cat. <i>British Journal of Pharmacology</i> , 2004, 142, 1171-1181.	5.4	274
5	Nitric oxide synthase inhibitors can antagonize neurogenic and calcitonin gene-related peptide induced dilation of dural meningeal vessels. <i>British Journal of Pharmacology</i> , 2002, 137, 62-68.	5.4	145
6	Dopamine and Migraine: Biology and Clinical Implications. <i>Cephalalgia</i> , 2007, 27, 1308-1314.	3.9	136
7	Topiramate inhibits cortical spreading depression in rat and cat: impact in migraine aura. <i>NeuroReport</i> , 2005, 16, 1383-1387.	1.2	129
8	Anandamide Is Able to Inhibit Trigeminal Neurons Using an in Vivo Model of Trigemino-vascular-Mediated Nociception. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 309, 56-63.	2.5	123
9	Orexin 1 Receptor Activation Attenuates Neurogenic Dural Vasodilation in an Animal Model of Trigemino-vascular Nociception. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 315, 1380-1385.	2.5	122
10	Oxygen Inhibits Neuronal Activation in the Trigemino-cervical Complex After Stimulation of Trigeminal Autonomic Reflex, But Not During Direct Dural Activation of Trigeminal Afferents. <i>Headache</i> , 2009, 49, 1131-1143.	3.9	122
11	Modulation of nociceptive dural input to the trigeminal nucleus caudalis via activation of the orexin 1 receptor in the rat. <i>European Journal of Neuroscience</i> , 2006, 24, 2825-2833.	2.6	119
12	Anandamide acts as a vasodilator of dural blood vessels in vivo by activating TRPV1 receptors. <i>British Journal of Pharmacology</i> , 2004, 142, 1354-1360.	5.4	112
13	Animal models of migraine: looking at the component parts of a complex disorder. <i>European Journal of Neuroscience</i> , 2006, 24, 1517-1534.	2.6	110
14	Neuronal PAC ₁ receptors mediate delayed activation and sensitization of trigemino-cervical neurons: Relevance to migraine. <i>Science Translational Medicine</i> , 2015, 7, 308ra157.	12.4	109
15	Neurons of the Dopaminergic/Calcitonin Gene-Related Peptide A11 Cell Group Modulate Neuronal Firing in the Trigemino-cervical Complex: An Electrophysiological and Immunohistochemical Study. <i>Journal of Neuroscience</i> , 2009, 29, 12532-12541.	3.6	105
16	Transcranial magnetic stimulation and potential cortical and trigeminothalamic mechanisms in migraine. <i>Brain</i> , 2016, 139, 2002-2014.	7.6	105
17	Dopamine: what's new in migraine?. <i>Current Opinion in Neurology</i> , 2010, 23, 275-281.	3.6	102
18	Hypothalamic activation after stimulation of the superior sagittal sinus in the cat: a Fos study. <i>Neurobiology of Disease</i> , 2004, 16, 500-505.	4.4	100

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19	Systemic antiangiogenic activity of cationic poly-L-lysine dendrimer delays tumor growth. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3966-3971.	7.1	97
20	Cannabinoid (CB1) Receptor Activation Inhibits Trigeminovascular Neurons. Journal of Pharmacology and Experimental Therapeutics, 2007, 320, 64-71.	2.5	96
21	Acid-sensing ion channel 1: A novel therapeutic target for migraine with aura. Annals of Neurology, 2012, 72, 559-563.	5.3	95
22	Blood Vessel Maturation and Response to Vascular-Disrupting Therapy in Single Vascular Endothelial Growth Factor-A Isoform-Producing Tumors. Cancer Research, 2008, 68, 2301-2311.	0.9	92
23	Endocannabinoids in the Brainstem Modulate Dural Trigeminovascular Nociceptive Traffic via CB ₁ and α -Tryptan Receptors: Implications in Migraine. Journal of Neuroscience, 2013, 33, 14869-14877.	3.6	91
24	Targeted Nitric Oxide Synthase Inhibitors for Migraine. Neurotherapeutics, 2018, 15, 391-401.	4.4	83
25	Voltage-dependent calcium channels are involved in neurogenic dural vasodilatation via a presynaptic transmitter release mechanism. British Journal of Pharmacology, 2003, 140, 558-566.	5.4	82
26	A translational in vivo model of trigeminal autonomic cephalalgias: therapeutic characterization. Brain, 2012, 135, 3664-3675.	7.6	82
27	Vanilloid type 1 receptors (VR1) on trigeminal sensory nerve fibres play a minor role in neurogenic dural vasodilatation, and are involved in capsaicin-induced dural dilation. British Journal of Pharmacology, 2003, 140, 718-724.	5.4	81
28	Neurovascular mechanisms of migraine and cluster headache. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 573-594.	4.3	72
29	Evidence for orexinergic mechanisms in migraine. Neurobiology of Disease, 2015, 74, 137-143.	4.4	71
30	Patterns of fos expression in the rostral medulla and caudal pons evoked by noxious craniovascular stimulation and periaqueductal gray stimulation in the cat. Brain Research, 2005, 1045, 1-11.	2.2	70
31	Topiramate inhibits trigeminovascular activation: an intravital microscopy study. British Journal of Pharmacology, 2005, 146, 7-14.	5.4	68
32	Occipital afferent activation of second order neurons in the trigeminocervical complex in rat. Neuroscience Letters, 2006, 403, 73-77.	2.1	68
33	A potential nitrenergic mechanism of action for indomethacin, but not of other COX inhibitors: relevance to indomethacin-sensitive headaches. Journal of Headache and Pain, 2010, 11, 477-483.	6.0	66
34	Vagus nerve stimulation suppresses acute noxious activation of trigeminocervical neurons in animal models of primary headache. Neurobiology of Disease, 2017, 102, 96-104.	4.4	66
35	Nitroglycerine triggers triptan-responsive cranial allodynia and trigeminal neuronal hypersensitivity. Brain, 2019, 142, 103-119.	7.6	62
36	The effect of anti-migraine compounds on nitric oxide-induced dilation of dural meningeal vessels. European Journal of Pharmacology, 2002, 452, 223-228.	3.5	61

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37	Spontaneous Behavioral Responses in the Orofacial Region: A Model of Trigeminal Pain in Mouse. <i>Headache</i> , 2013, 53, 137-151.	3.9	54
38	Current and novel insights into the neurophysiology of migraine and its implications for therapeutics. , 2017, 172, 151-170.		54
39	Pearls and pitfalls in experimental inÂvivo models of migraine: Dural trigeminovascular nociception. <i>Cephalalgia</i> , 2013, 33, 577-592.	3.9	52
40	A potent and selective calcitonin gene-related peptide (CGRP) receptor antagonist, MK-8825, inhibits responses to nociceptive trigeminal activation: Role of CGRP in orofacial pain. <i>Experimental Neurology</i> , 2015, 271, 95-103.	4.1	51
41	Mechanically-induced cortical spreading depression associated regional cerebral blood flow changes are blocked by Na ⁺ ion channel blockade. <i>Brain Research</i> , 2008, 1229, 27-36.	2.2	46
42	PACAP and migraine headache: immunomodulation of neural circuits in autonomic ganglia and brain parenchyma. <i>Journal of Headache and Pain</i> , 2018, 19, 23.	6.0	46
43	The trigeminovascular system does not require a peripheral sensory input to be activated “ migraine is a central disorder Focus on “Effect of cortical spreading depression on basal and evoked traffic in the trigeminovascular sensory system”™. <i>Cephalalgia</i> , 2012, 32, 3-5.	3.9	44
44	Evidence for postjunctional serotonin (5-HT ₁) receptors in the trigeminocervical complex. <i>Annals of Neurology</i> , 2001, 50, 804-807.	5.3	43
45	Intravital Microscopy on a Closed Cranial Window in Mice: A Model to Study Trigeminovascular Mechanisms Involved in Migraine. <i>Cephalalgia</i> , 2006, 26, 1294-1303.	3.9	42
46	TRPV1 receptor blockade is ineffective in different inÂvivo models of migraine. <i>Cephalalgia</i> , 2011, 31, 172-180.	3.9	42
47	Cortical spreading depression-associated cerebral blood flow changes induced by mechanical stimulation are modulated by AMPA and GABA receptors. <i>Cephalalgia</i> , 2010, 30, 519-27.	3.9	41
48	Neuroendocrine signaling modulates specific neural networks relevant to migraine. <i>Neurobiology of Disease</i> , 2017, 101, 16-26.	4.4	40
49	Efficacy and mechanism of anticonvulsant drugs in migraine. <i>Expert Review of Clinical Pharmacology</i> , 2014, 7, 191-201.	3.1	39
50	PAC1 receptor blockade reduces central nociceptive activity: new approach for primary headache?. <i>Pain</i> , 2020, 161, 1670-1681.	4.2	39
51	Neuropeptide Y inhibits the trigeminovascular pathway through NPY Y1 receptor: implications for migraine. <i>Pain</i> , 2016, 157, 1666-1673.	4.2	37
52	GABA receptors modulate trigeminovascular nociceptive neurotransmission in the trigeminocervical complex. <i>British Journal of Pharmacology</i> , 2001, 134, 896-904.	5.4	36
53	Comparison of the Effects of Central and Peripheral Dopamine Receptor Activation on Evoked Firing in the Trigemino-cervical Complex. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 752-763.	2.5	36
54	Trigemino-cervical complex responses after lesioning dopaminergic A11 nucleus are modified by dopamine and serotonin mechanisms. <i>Pain</i> , 2011, 152, 2365-2376.	4.2	35

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55	Calcium channels modulate nociceptive transmission in the trigeminal nucleus of the cat. <i>Neuroscience</i> , 2005, 135, 203-212.	2.3	34
56	Metabotropic glutamate receptor 5: a target for migraine therapy. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 560-571.	3.7	34
57	The role of histamine in dural vessel dilation. <i>Brain Research</i> , 2002, 956, 96-102.	2.2	32
58	Vascular effects dominate solid tumor response to treatment with combretastatin A4 phosphate. <i>International Journal of Cancer</i> , 2011, 129, 1979-1989.	5.1	32
59	The effect of adrenergic compounds on neurogenic dural vasodilatation. <i>European Journal of Pharmacology</i> , 2001, 424, 53-58.	3.5	31
60	Inhibition of trigeminovascular dural nociceptive afferents by Ca ²⁺ -activated K ⁺ (MaxiK/BKCa) channel opening. <i>Pain</i> , 2010, 151, 128-136.	4.2	28
61	Brain structure and function related to headache: Brainstem structure and function in headache. <i>Cephalalgia</i> , 2019, 39, 1635-1660.	3.9	26
62	Characterization of opioid receptors that modulate nociceptive neurotransmission in the trigeminocervical complex. <i>British Journal of Pharmacology</i> , 2003, 138, 317-324.	5.4	23
63	GABAA receptor modulation of trigeminovascular nociceptive neurotransmission by midazolam is antagonized by flumazenil. <i>Brain Research</i> , 2004, 1013, 188-193.	2.2	23
64	4991W93, a potent blocker of neurogenic plasma protein extravasation, inhibits trigeminal neurons at 5-hydroxytryptamine (5-HT _{1B/1D}) agonist doses. <i>Neuropharmacology</i> , 2001, 40, 911-917.	4.1	22
65	The ORL-1 (NOP1) receptor ligand nociceptin/orphanin FQ (N/OFQ) inhibits neurogenic dural vasodilatation in the rat. <i>Neuropharmacology</i> , 2002, 43, 991-998.	4.1	21
66	Differential trigeminovascular nociceptive responses in the thalamus in the familial hemiplegic migraine 1 knock-in mouse: A Fos protein study. <i>Neurobiology of Disease</i> , 2014, 64, 1-7.	4.4	21
67	Targeting the central projection of the dural trigeminovascular system for migraine prophylaxis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 704-717.	4.3	20
68	The Role of Dopamine in a Model of Trigemino-vascular Nociception. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 314, 162-169.	2.5	19
69	Comparative effects of traditional Chinese and Western migraine medicines in an animal model of nociceptive trigeminovascular activation. <i>Cephalalgia</i> , 2018, 38, 1215-1224.	3.9	19
70	Glia and Orofacial Pain: Progress and Future Directions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5345.	4.1	19
71	Insights into the pharmacological targeting of the trigeminocervical complex in the context of treatments of migraine. <i>Expert Review of Neurotherapeutics</i> , 2013, 13, 1041-1059.	2.8	18
72	Olvanil acts on transient receptor potential vanilloid channel 1 and cannabinoid receptors to modulate neuronal transmission in the trigeminovascular system. <i>Pain</i> , 2012, 153, 2226-2232.	4.2	17

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73	Differential actions of indomethacin: clinical relevance in headache. <i>Pain</i> , 2021, 162, 591-599.	4.2	17
74	Preclinical studies investigating the neural mechanisms involved in the co-morbidity of migraine and temporomandibular disorders: the role of CGRP. <i>British Journal of Pharmacology</i> , 2020, 177, 5555-5568.	5.4	16
75	Update on Animal Models of Migraine. <i>Current Pain and Headache Reports</i> , 2014, 18, 462.	2.9	15
76	Sex differences in the expression of calcitonin gene-related peptide receptor components in the spinal trigeminal nucleus. <i>Neurobiology of Pain (Cambridge, Mass)</i> , 2019, 6, 100031.	2.5	13
77	Therapeutic targeting of nitroglycerin-mediated trigeminovascular neuronal hypersensitivity predicts clinical outcomes of migraine abortives. <i>Pain</i> , 2021, 162, 1567-1577.	4.2	12
78	Influence of soluble or matrix-bound isoforms of vascular endothelial growth factor-A on tumor response to vascular-targeted strategies. <i>International Journal of Cancer</i> , 2013, 133, n/a-n/a.	5.1	11
79	Characterization of opioidergic mechanisms related to the anti-migraine effect of vagus nerve stimulation. <i>Neuropharmacology</i> , 2021, 195, 108375.	4.1	11
80	A Novel Translational Animal Model of Trigeminal Autonomic Cephalalgias. <i>Headache</i> , 2015, 55, 197-203.	3.9	9
81	Targeting reactive nitroxidative species in preclinical models of migraine. <i>Cephalalgia</i> , 2021, 41, 1187-1200.	3.9	9
82	Online chromatic and scale-space microvessel-tracing analysis for transmitted light optical images. <i>Microvascular Research</i> , 2012, 84, 330-339.	2.5	5
83	Microflow of fluorescently labelled red blood cells in tumours expressing single isoforms of VEGF and their response to vascular targeting agents. <i>Medical Engineering and Physics</i> , 2011, 33, 805-809.	1.7	3
84	Devices for Episodic Migraine: Past, Present, and Future. <i>Current Pain and Headache Reports</i> , 2022, 26, 259-265.	2.9	3
85	KCl-induced repetitive cortical spreading depression inhibiting trigeminal neuronal firing is mediated by 5-HT _{1B/1D} and opioid receptors. <i>Cephalalgia</i> , 2022, 42, 1339-1348.	3.9	2
86	Animals Models for Trigeminal Autonomic Cephalalgias. <i>Headache</i> , 2020, , 103-115.	0.4	1
87	Increased affinity of platelet dopamine-binding to D ₂ -receptors in migraineurs: implications of the dopaminergic system in migraine. <i>Future Neurology</i> , 2009, 4, 291-294.	0.5	0
88	Response to Dr Elliot Shevel's comment on the Editorial "The trigeminovascular system does not require a peripheral sensory input to be activated" migraine is a central disorder. <i>Cephalalgia</i> , 2012, 32, 1082-1083.	3.9	0
89	Animal Models of Tension-Type Headache and Trigeminal Autonomic Cephalalgias. <i>Headache</i> , 2015, , 67-82.	0.4	0
90	Vagus Nerve Stimulation. <i>Headache</i> , 2020, , 87-98.	0.4	0