Rami Burstein

List of Publications by Citations

107 papers	9,224 citations	44 h-index	96 g-index
109 ext. papers	10,879 ext. citations	7.1 avg, IF	6.43 L-index

#	Paper	IF	Citations
107	An association between migraine and cutaneous allodynia. *Annals of Neurology*, **2000**, 47, 614-624	9.4	792
106	Defeating migraine pain with triptans: a race against the development of cutaneous allodynia. *Annals of Neurology*, **2004**, 55, 19-26	9.4	488
105	Chemical stimulation of the intracranial dura induces enhanced responses to facial stimulation in brain stem trigeminal neurons. *Journal of Neurophysiology*, **1998**, 79, 964-82	3.2	461
104	Migraine pathophysiology: anatomy of the trigeminovascular pathway and associated neurological symptoms, CSD, sensitization and modulation of pain. *Pain*, **2013**, 154 Suppl 1,	8	453
103	Migraine: multiple processes, complex pathophysiology. *Journal of Neuroscience*, **2015**, 35, 6619-29	6.6	382
102	Cutaneous allodynia in the migraine population. *Annals of Neurology*, **2008**, 63, 148-58	9.4	367
101	A neural mechanism for exacerbation of headache by light. *Nature Neuroscience*, **2010**, 13, 239-45	25.5	360
100	Analgesic triptan action in an animal model of intracranial pain: a race against the development of central sensitization. *Annals of Neurology*, **2004**, 55, 27-36	9.4	293
99	Thalamic sensitization transforms localized pain into widespread allodynia. *Annals of Neurology*, **2010**, 68, 81-91	9.4	273
98	Activation of meningeal nociceptors by cortical spreading depression: implications for migraine with aura. *Journal of Neuroscience*, **2010**, 30, 8807-14	6.6	250
97	Activation of central trigeminovascular neurons by cortical spreading depression. *Annals of Neurology*, **2011**, 69, 855-65	9.4	247
96	Sensitization of the trigeminovascular pathway: perspective and implications to migraine pathophysiology. *Journal of Clinical Neurology (Korea*, **2012**, 8, 89-99	1.7	218
95	Safety, tolerability, and efficacy of TEV-48125 for preventive treatment of high-frequency episodic migraine: a multicentre, randomised, double-blind, placebo-controlled, phase 2b study. *Lancet Neurology, The*, **2015**, 14, 1081-90	24.1	202
94	Disruption of communication between peripheral and central trigeminovascular neurons mediates the antimigraine action of 5HT 1B/1D receptor agonists. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 4274-9	11.5	196
93	Trigeminohypothalamic and reticulohypothalamic tract neurons in the upper cervical spinal cord and caudal medulla of the rat. *Journal of Neurophysiology*, **2000**, 84, 2078-112	3.2	194
92	Safety, tolerability, and efficacy of TEV-48125 for preventive treatment of chronic migraine: a multicentre, randomised, double-blind, placebo-controlled, phase 2b study. *Lancet Neurology, The*, **2015**, 14, 1091-100	24.1	179
91	Interictal dysfunction of a brainstem descending modulatory center in migraine patients. *PLoS ONE*, **2008**, 3, e3799	3.7	165

90	Unitary hypothesis for multiple triggers of the pain and strain of migraine. *Journal of Comparative Neurology*, **2005**, 493, 9-14	3.4	160
89	Her versus his migraine: multiple sex differences in brain function and structure. *Brain*, **2012**, 135, 2546-59	11.2	143
88	Selective inhibition of meningeal nociceptors by botulinum neurotoxin type A: therapeutic implications for migraine and other pains. *Cephalalgia*, **2014**, 34, 853-69	6.1	139
87	Concurrent functional and structural cortical alterations in migraine. *Cephalalgia*, **2012**, 32, 607-20	6.1	139
86	2003 Wolff Award: Possible parasympathetic contributions to peripheral and central sensitization during migraine. *Headache*, **2003**, 43, 704-14	4.2	134
85	Cortical projections of functionally identified thalamic trigeminovascular neurons: implications for migraine headache and its associated symptoms. *Journal of Neuroscience*, **2011**, 31, 14204-17	6.6	123
84	Sensory innervation of the calvarial bones of the mouse. *Journal of Comparative Neurology*, **2009**, 515, 331-48	3.4	118
83	Migraine and the trigeminovascular system-40 years and counting. *Lancet Neurology, The*, **2019**, 18, 795-804	24.1	114
82	Retrograde labeling of neurons in the spinal cord that project directly to the amygdala or the orbital cortex in the rat. *Journal of Comparative Neurology*, **1993**, 335, 469-85	3.4	112
81	Cortical Spreading Depression Closes Paravascular Space and Impairs Glymphatic Flow: Implications for Migraine Headache. *Journal of Neuroscience*, **2017**, 37, 2904-2915	6.6	111
80	Migraine attacks the Basal Ganglia. *Molecular Pain*, **2011**, 7, 71	3.4	111
79	Cells of origin of the trigeminohypothalamic tract in the rat. *Journal of Comparative Neurology*, **1998**, 400, 125-44	3.4	110
78	Common hippocampal structural and functional changes in migraine. *Brain Structure and Function*, **2013**, 218, 903-12	4	107
77	Can allodynic migraine patients be identified interictally using a questionnaire?. *Neurology*, **2005**, 65, 1419-22	6.5	105
76	Fremanezumab-A Humanized Monoclonal Anti-CGRP Antibody-Inhibits Thinly Myelinated (A) But Not Unmyelinated (C) Meningeal Nociceptors. *Journal of Neuroscience*, **2017**, 37, 10587-10596	6.6	100
75	Altered hypothalamic functional connectivity with autonomic circuits and the locus coeruleus in migraine. *PLoS ONE*, **2014**, 9, e95508	3.7	87
74	Selective Inhibition of Trigeminovascular Neurons by Fremanezumab: A Humanized Monoclonal Anti-CGRP Antibody. *Journal of Neuroscience*, **2017**, 37, 7149-7163	6.6	86
73	Migraine photophobia originating in cone-driven retinal pathways. *Brain*, **2016**, 139, 1971-86	11.2	83

72	The Insula: A "Hub of Activity" in Migraine. *Neuroscientist*, **2016**, 22, 632-652	7.6	76
71	Extracranial injections of botulinum neurotoxin type A inhibit intracranial meningeal nociceptorsS responses to stimulation of TRPV1 and TRPA1 channels: Are we getting closer to solving this puzzle?. *Cephalalgia*, **2016**, 36, 875-86	6.1	74
70	Functional imaging of the human trigeminal system: opportunities for new insights into pain processing in health and disease. *Journal of Neurobiology*, **2004**, 61, 107-25		71
69	Cardiovascular and neuronal responses to head stimulation reflect central sensitization and cutaneous allodynia in a rat model of migraine. *Journal of Neurophysiology*, **1999**, 81, 479-93	3.2	68
68	Simvastatin and vitamin D for migraine prevention: A randomized, controlled trial. *Annals of Neurology*, **2015**, 78, 970-81	9.4	64
67	Neurochemical pathways that converge on thalamic trigeminovascular neurons: potential substrate for modulation of migraine by sleep, food intake, stress and anxiety. *PLoS ONE*, **2014**, 9, e103929	3.7	61
66	Increased Amplitude of Thalamocortical Low-Frequency Oscillations in Patients with Migraine. *Journal of Neuroscience*, **2016**, 36, 8026-36	6.6	59
65	Remote Electrical Neuromodulation (REN) Relieves Acute Migraine: A Randomized, Double-Blind, Placebo-Controlled, Multicenter Trial. *Headache*, **2019**, 59, 1240-1252	4.2	50
64	Upregulation of inflammatory gene transcripts in periosteum of chronic migraineurs: Implications for extracranial origin of headache. *Annals of Neurology*, **2016**, 79, 1000-13	9.4	47
63	Activation of pial and dural macrophages and dendritic cells by cortical spreading depression. *Annals of Neurology*, **2018**, 83, 508-521	9.4	43
62	Hypothalamic regulation of headache and migraine. *Cephalalgia*, **2019**, 39, 1710-1719	6.1	42
61	Fluorescently-labeled fremanezumab is distributed to sensory and autonomic ganglia and the dura but not to the brain of rats with uncompromised blood brain barrier. *Cephalalgia*, **2020**, 40, 229-240	6.1	39
60	Extracranial origin of headache. *Current Opinion in Neurology*, **2017**, 30, 263-271	7.1	38
59	Distinct lateral and medial projections of the spinohypothalamic tract of the rat. *Journal of Comparative Neurology*, **1996**, 373, 549-74	3.4	37
58	Non-Trigeminal Nociceptive Innervation of the Posterior Dura: Implications to Occipital Headache. *Journal of Neuroscience*, **2019**, 39, 1867-1880	6.6	37
57	Allodynia Is Associated With Initial and Sustained Response to Acute Migraine Treatment: Results from the American Migraine Prevalence and Prevention Study. *Headache*, **2017**, 57, 1026-1040	4.2	36
56	Anti-migraine action of triptans is preceded by transient aggravation of headache caused by activation of meningeal nociceptors. *Pain*, **2005**, 115, 21-8	8	36
55	An association between migraine and cutaneous allodynia **2000**, 47, 614		35

54	Current understanding of photophobia, visual networks and headaches. *Cephalalgia*, **2019**, 39, 1623-1634	4.1	34
53	Primary Somatosensory Cortices Contain Altered Patterns of Regional Cerebral Blood Flow in the Interictal Phase of Migraine. *PLoS ONE*, **2015**, 10, e0137971	3.7	34
52	Increased Functional Activation of Limbic Brain Regions during Negative Emotional Processing in Migraine. *Frontiers in Human Neuroscience*, **2016**, 10, 366	3.3	34
51	Neuropeptides and Neurotransmitters That Modulate Thalamo-Cortical Pathways Relevant to Migraine Headache. *Headache*, **2017**, 57 Suppl 2, 97-111	4.2	33
50	Mechanism of Action of OnabotulinumtoxinA in Chronic Migraine: A Narrative Review. *Headache*, **2020**, 60, 1259-1272	4.2	33
49	Neural mechanism for hypothalamic-mediated autonomic responses to light during migraine. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E5683-E5692	11.5	33
48	Cortico-Cortical Connections of Primary Sensory Areas and Associated Symptoms in Migraine. *ENeuro*, **2016**, 3,	3.9	28
47	Mapping migraine to a common brain network. *Brain*, **2020**, 143, 541-553	11.2	27
46	Responsivity of Periaqueductal Gray Connectivity Is Related to Headache Frequency in Episodic Migraine. *Frontiers in Neurology*, **2018**, 9, 61	4.1	26
45	CSD-Induced Arterial Dilatation and Plasma Protein Extravasation Are Unaffected by Fremanezumab: Implications for CGRP's Role in Migraine with Aura. *Journal of Neuroscience*, **2019**, 39, 6001-6011	6.6	25
44	Brain network alterations in the inflammatory soup animal model of migraine. *Brain Research*, **2017**, 1660, 36-46	3.7	23
43	Association of statin use and risk for severe headache or migraine by serum vitamin D status: a cross-sectional population-based study. *Cephalalgia*, **2015**, 35, 757-66	6.1	23
42	Dual Therapy With Anti-CGRP Monoclonal Antibodies and Botulinum Toxin for Migraine Prevention: Is There a Rationale?. *Headache*, **2020**, 60, 1056-1065	4.2	23
41	Neural substrate of depression during migraine. *Neurological Sciences*, **2009**, 30 Suppl 1, S27-31	3.5	23
40	Implications of multimechanism therapy: when to treat?. *Neurology*, **2005**, 64, S16-20	6.5	20
39	Can cortical spreading depression activate central trigeminovascular neurons without peripheral input? Pitfalls of a new concept. *Cephalalgia*, **2012**, 32, 509-11	6.1	19
38	Emerging evidence of occipital nerve compression in unremitting head and neck pain. *Journal of Headache and Pain*, **2019**, 20, 76	8.8	18
37	Migraine prophylaxis with botulinum toxin A is associated with perception of headache. *Toxicon*, **2009**, 54, 624-7	2.8	18

36	Nightly sleep duration, fragmentation, and quality and daily risk of migraine. *Neurology*, **2020**, 94, e489-e496	8.9	18
35	In child and adult migraineurs the somatosensory cortex stands out again: An arterial spin labeling investigation. *Human Brain Mapping*, **2017**, 38, 4078-4087	5.9	16
34	Exploring the effects of extracranial injections of botulinum toxin type A on prolonged intracranial meningeal nociceptors responses to cortical spreading depression in female rats. *Cephalalgia*, **2019**, 39, 1358-1365	6.1	16
33	Migraine.. *Nature Reviews Disease Primers*, **2022**, 8, 2	51.1	16
32	Neurobiology of Photophobia. *Journal of Neuro-Ophthalmology*, **2019**, 39, 94-102	2.6	16
31	The migraine eye: distinct rod-driven retinal pathwaysSresponse to dim light challenges the visual cortex hyperexcitability theory. *Pain*, **2019**, 160, 569-578	8	15
30	Fremanezumab and its isotype slow propagation rate and shorten cortical recovery period but do not prevent occurrence of cortical spreading depression in rats with compromised blood-brain barrier. *Pain*, **2020**, 161, 1037-1043	8	13
29	Color-selective photophobia in ictal vs interictal migraineurs and in healthy controls. *Pain*, **2018**, 159, 2030-2034	8	13
28	A new electronic diary tool for mapping and tracking spatial and temporal head pain patterns in migraine. *Cephalalgia*, **2015**, 35, 417-25	6.1	13
27	Migraine Mistakes: Error Awareness. *Neuroscientist*, **2014**, 20, 291-304	7.6	12
26	Combined onabotulinumtoxinA/atogepant treatment blocks activation/sensitization of high-threshold and wide-dynamic range neurons. *Cephalalgia*, **2021**, 41, 17-32	6.1	11
25	Tracking patients with chronic occipital headache after occipital nerve decompression surgery: A case series. *Cephalalgia*, **2019**, 39, 556-563	6.1	9
24	Ezogabine (KCNQ2/3 channel opener) prevents delayed activation of meningeal nociceptors if given before but not after the occurrence of cortical spreading depression. *Epilepsy and Behavior*, **2013**, 28, 243-8	3.2	8
23	Dizziness and vertigo during the prodromal phase and headache phase of migraine: A systematic review and meta-analysis. *Cephalalgia*, **2020**, 40, 1095-1103	6.1	7
22	Adverse effects of erenumab on cerebral proliferative angiopathy: A case report. *Cephalalgia*, **2021**, 41, 122-126	6.1	7
21	The association between migraine and hospital readmission due to pain after surgery: A hospital registry study. *Cephalalgia*, **2019**, 39, 286-295	6.1	6
20	Ictal and interictal brain activation in episodic migraine: Neural basis for extent of allodynia. *PLoS ONE*, **2021**, 16, e0244320	3.7	6
19	Migraine in the Young Brain: Adolescents vs. Young Adults. *Frontiers in Human Neuroscience*, **2019**, 13, 87	3.3	5

18	Unrecognized challenges of treating status migrainosus: An observational study. *Cephalalgia*, **2020**, 40, 818-827	6.1	4
17	Modulation of brain networks by sumatriptan-naproxen in the inflammatory soup migraine model. *Pain*, **2019**, 160, 2161-2171	8	4
16	Headache in Petrous Apicitis: A Case Report of Chronic Migraine-like Headache Due to Peripheral Pathology. *Headache*, **2019**, 59, 1821-1826	4.2	3
15	Almotriptan efficacy in migraine with developing allodynia is as high as the efficacy in migraine without allodynia--but is it the same in migraine with established allodynia?. *Headache*, **2009**, 49, 364-5	4.2	3
14	Efficacy of erenumab in chronic migraine patients with and without ictal allodynia. *Cephalalgia*, **2021**, 41, 1152-1160	6.1	3
13	Reply: Pupil area and photopigment spectral sensitivity are relevant to study of migraine photophobia. *Brain*, **2017**, 140, e3	11.2	2
12	Activation of Peripheral and Central Trigeminovascular Neurons by Seizure: Implications for Ictal and Postictal Headache. *Journal of Neuroscience*, **2020**, 40, 5314-5326	6.6	2
11	Celecoxib reduces cortical spreading depression-induced macrophage activation and dilatation of dural but not pial arteries in rodents: implications for mechanism of action in terminating migraine attacks. *Pain*, **2020**, 161, 1019-1026	8	2
10	OnabotulinumtoxinA affects cortical recovery period but not occurrence or propagation of cortical spreading depression in rats with compromised blood-brain barrier. *Pain*, **2021**, 162, 2418-2427	8	2
9	Altered Brain Network Connectivity Underlies Persistent Post-Traumatic Headache following Mild Traumatic Brain Injury in Youth. *Journal of Neurotrauma*, **2021**, 38, 1632-1641	5.4	2
8	FollowTheSutures: Piloting a new way to administer onabotulinumtoxinA for chronic migraine.. *Cephalalgia*, **2022**, 3331024211067775	6.1	1
7	Migraine, Sensitization of Trigeminovascular Neurons, and Triptan Therapy. *Headache Currents: A Journal for Recent Advances in Headache and Facial Pain*, **2004**, 1, 25-32		0
6	Migraine: interactions between brain's trait and state. *CNS Spectrums*, **2021**, 1-9	1.8	0
5	Atogepant - an orally-administered CGRP antagonist - attenuates activation of meningeal nociceptors by CSD.. *Cephalalgia*, **2022**, 3331024221083544	6.1	0
4	Terminating Migraine-Associated Allodynia Using Oral Suspension Diclofenac: A Prospective Non-Randomized Drug Trial. *Headache*, **2017**, 57, 478-486	4.2	
3	Sensitization and Photophobia in Migraine **2017**, 125-138		
2	Migraine and Other Pain Disorders **2011**, 81-95		
1	Reply to Spitschan. *Pain*, **2019**, 160, 2409-2410	8	