Cortical spreading depression and migraine

Nature Reviews Neurology 9, 637-644 DOI: 10.1038/nrneurol.2013.192

Citation Report

#	Article	IF	CITATIONS
1	How voltage-gated calcium channels gate forms of homeostatic synaptic plasticity. Frontiers in Cellular Neuroscience, 2014, 8, 40.	1.8	80
2	Our Evolving Understanding of Migraine with Aura. Current Pain and Headache Reports, 2014, 18, 453.	1.3	24
3	Dynamics from Seconds to Hours in Hodgkin-Huxley Model with Time-Dependent Ion Concentrations and Buffer Reservoirs. PLoS Computational Biology, 2014, 10, e1003941.	1.5	51
4	Bistable Dynamics Underlying Excitability of Ion Homeostasis in Neuron Models. PLoS Computational Biology, 2014, 10, e1003551.	1.5	48
5	Involvement of gap junction channels in the pathophysiology of migraine with aura. Frontiers in Physiology, 2014, 5, 78.	1.3	46
6	Relationships between epistaxis, migraines, and triggers in hereditary hemorrhagic telangiectasia. Laryngoscope, 2014, 124, 1521-1528.	1.1	28
7	Modelling headache and migraine and its pharmacological manipulation. British Journal of Pharmacology, 2014, 171, 4575-4594.	2.7	37
8	Magnetic suppression of perceptual accuracy is not reduced in episodic migraine without aura. Journal of Headache and Pain, 2014, 15, 83.	2.5	6
9	Spreading Depolarization in the Ischemic Brain: Does Aging Have an Impact?. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1363-1370.	1.7	17
11	Sex and the migraine brain. Neurobiology of Disease, 2014, 68, 200-214.	2.1	79
12	Reactive Oxygen Species Initiate a Metabolic Collapse in Hippocampal Slices: Potential Trigger of Cortical Spreading Depression. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1540-1549.	2.4	35
13	Spreading Depolarization May Link Migraine and Stroke. Headache, 2014, 54, 1146-1157.	1.8	46
14	Migraine and Reward System—Or Is It Aversive?. Current Pain and Headache Reports, 2014, 18, 410.	1.3	16
15	Chaos and commotion in the wake of cortical spreading depression and spreading depolarizations. Nature Reviews Neuroscience, 2014, 15, 379-393.	4.9	318
16	Radial, spiral and reverberating waves of spreading depolarization occur in the gyrencephalic brain. NeuroImage, 2014, 99, 244-255.	2.1	65
17	Persistent Aura with Small Occipital Cortical Infarction: Implications for Migraine Pathophysiology. Case Reports in Neurology, 2014, 6, 217-221.	0.3	4
18	Determining individual phase response curves from aggregate population data. Physical Review E, 2015, 92, 022902.	0.8	6
19	Visual evoked potentials in subgroups of migraine with aura patients. Journal of Headache and Pain, 2015, 16, 92.	2.5	53

#	Article	IF	CITATIONS
20	Magnetic Resonance Imaging of Pediatric Neurologic Emergencies. Topics in Magnetic Resonance Imaging, 2015, 24, 291-307.	0.7	5
21	Functional Prodrome in Migraines. SSRN Electronic Journal, 2015, , .	0.4	0
22	OnabotulinumtoxinA for chronic migraine: a critical appraisal. Therapeutics and Clinical Risk Management, 2015, 11, 1003.	0.9	20
23	Cortical hot spots and labyrinths: why cortical neuromodulation for episodic migraine with aura should be personalized. Frontiers in Computational Neuroscience, 2015, 9, 29.	1.2	16
24	Neural Plasticity in Common Forms of Chronic Headaches. Neural Plasticity, 2015, 2015, 1-14.	1.0	45
25	Evidence-Based Treatments for Adults with Migraine. Pain Research and Treatment, 2015, 2015, 1-13.	1.7	17
26	New and Emerging Treatments for Migraine. Journal of Pain & Relief, 2015, 04, .	0.1	1
27	Migraine Cause and Treatment. SSRN Electronic Journal, 2015, , .	0.4	0
28	Involvement of NMDA receptor subtypes in cortical spreading depression in rats assessed by fMRI. Neuropharmacology, 2015, 93, 164-170.	2.0	39
29	The Stroke-Migraine Depolarization Continuum. Neuron, 2015, 86, 902-922.	3.8	265
30	Sounding out migraine-related interactions between the brainstem and cortex. Cephalalgia, 2015, 35, 941-943.	1.8	1
31	White matter microstructure abnormalities in pediatric migraine patients. Cephalalgia, 2015, 35, 1278-1286.	1.8	42
32	Understanding migraine using dynamic network biomarkers. Cephalalgia, 2015, 35, 627-630.	1.8	27
33	Calcitonin Gene-Related Peptide (CGRP): A New Target for Migraine. Annual Review of Pharmacology and Toxicology, 2015, 55, 533-552.	4.2	293
34	ASICs as therapeutic targets for migraine. Neuropharmacology, 2015, 94, 64-71.	2.0	55
35	Fathoming the kynurenine pathway in migraine: why understanding the enzymatic cascades is still critically important. Internal and Emergency Medicine, 2015, 10, 413-421.	1.0	23
36	How does spreading depression spread? Physiology and modeling. Reviews in the Neurosciences, 2015, 26, 183-98.	1.4	33
37	Computational modeling of neurostimulation in brain diseases. Progress in Brain Research, 2015, 222, 191-228.	0.9	30

	Сітат	ION REPORT	
#	Article	IF	CITATIONS
38	Impaired visual inhibition in migraine with aura. Clinical Neurophysiology, 2015, 126, 1988-1993.	0.7	15
39	Neurovascular Coupling During Cortical Spreading Depolarization and –Depression. Stroke, 2015, 46, 1392-1401.	1.0	39
40	Brain effects of the lectin fromCanavalia ensiformisin adult rats previously suckled in favorable and unfavorable conditions: A spreading depression and microglia immunolabeling study. Nutritional Neuroscience, 2015, 18, 307-315.	1.5	5
41	Hyperleptinemia increases the susceptibility of the cortex to generate cortical spreading depression. Cephalalgia, 2015, 35, 327-334.	1.8	14
42	From migraine genes to mechanisms. Pain, 2015, 156, S64-S74.	2.0	63
43	Dynamics of Ionic Shifts in Cortical Spreading Depression. Cerebral Cortex, 2015, 25, 4469-4476.	1.6	142
44	Genetic analysis for a shared biological basis between migraine and coronary artery disease. Neurology: Genetics, 2015, 1, e10.	0.9	61
46	Episodic and Electrical Nervous System Disorders Caused by Nonchannel Genes. Annual Review of Physiology, 2015, 77, 525-541.	5.6	9
47	Functional Prodrome in Migraines. Journal of Neurological Disorders, 2016, 04, .	0.1	1
48	The Revolution in Migraine Genetics: From Aching Channels Disorders to a Next-Generation Medicine. Frontiers in Cellular Neuroscience, 2016, 10, 156.	1.8	19
49	Delta-opioid receptors as targets for migraine therapy. Current Opinion in Neurology, 2016, 29, 314-319.	1.8	27
50	Ischemia-induced spreading depolarization in the retina. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1579-1591.	2.4	12
51	Does Migraine Increase the Risk of Glaucoma?. Medicine (United States), 2016, 95, e3670.	0.4	20
53	Clinical and electroencephalographic abnormalities during the full duration of a sporadic hemiplegic migraine attack. Neurophysiologie Clinique, 2016, 46, 307-311.	1.0	13
54	Neurostimulation in the treatment of primary headaches. Practical Neurology, 2016, 16, 362-375.	0.5	49
55	Multifaceted roles for astrocytes in spreading depolarization: A target for limiting spreading depolarization in acute brain injury?. Glia, 2016, 64, 5-20.	2.5	56
56	Involvement of CGRP receptors in retinal spreading depression. Pharmacological Reports, 2016, 68, 935-938.	1.5	28
57	Isostable reduction with applications to time-dependent partial differential equations. Physical Review E, 2016, 94, 012211.	0.8	23

		Citation Ri	EPORT	
#	Article		IF	CITATIONS
58	Diagnosing migraine. Journal of Family Planning and Reproductive Health Care, 2016, 4	12, 280-286.	0.9	7
59	Neurovascular contributions to migraine: Moving beyond vasodilation. Neuroscience, 2 130-144.	2016, 338,	1.1	119
60	Altered kynurenine pathway metabolites in serum of chronic migraine patients. Journal and Pain, 2016, 17, 47.	of Headache	2.5	57
61	Temporal profiles of high-mobility group box 1 expression levels after cortical spreading in mice. Cephalalgia, 2016, 36, 44-52.	g depression	1.8	24
62	The effects of acute and preventive migraine therapies in a mouse model of chronic mi Cephalalgia, 2016, 36, 1048-1056.	graine.	1.8	66
63	Novel imaging techniques in cerebral small vessel diseases and vascular cognitive impa Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 926-938.	irment.	1.8	63
64	Clinical impact of migraine for the management of glaucoma patients. Progress in Reti Research, 2016, 51, 107-124.	nal and Eye	7.3	14
65	Recording, analysis, and interpretation of spreading depolarizations in neurointensive a and recommendations of the COSBID research group. Journal of Cerebral Blood Flow a 2017, 37, 1595-1625.	care: Review nd Metabolism,	2.4	255
66	Optogenetic induction of cortical spreading depression in anesthetized and freely beha Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1641-1655.	aving mice.	2.4	66
67	Deletion of Aquaporin-4 Curtails Extracellular Glutamate Elevation in Cortical Spreading in Awake Mice. Cerebral Cortex, 2017, 27, 24-33.	g Depression	1.6	25
68	The Use of Electroceuticals and Neuromodulation in the Treatment of Migraine and Ot , 2017, , 1-33.	her Headaches.		2
69	Increased intrinsic brain connectivity between pons and somatosensory cortex during migraine with aura. Human Brain Mapping, 2017, 38, 2635-2642.	attacks of	1.9	59
70	Cortical Spreading Depression Closes Paravascular Space and Impairs Glymphatic Flow for Migraine Headache. Journal of Neuroscience, 2017, 37, 2904-2915.	: Implications	1.7	169
71	Postoperative Hemiplegic Migraine After a Laparoscopic Cholecystectomy. A & A Case 161-163.	Reports, 2017, 8,	0.7	1
72	Current and novel insights into the neurophysiology of migraine and its implications fo therapeutics. , 2017, 172, 151-170.	ır		54
73	Cortical glutamate in migraine. Brain, 2017, 140, 1859-1871.		3.7	81
75	Frequencyâ€Dependent Habituation Deficit of the Nociceptive Blink Reflex in Aura Wit Headache. Can Migraine Aura Modulate Trigeminal Excitability?. Headache, 2017, 57, 8	h Migraine 387-898.	1.8	12
76	The Delta Opioid Receptor in Pain Control. Handbook of Experimental Pharmacology, 2	2017, 247, 147-177.	0.9	21

#	Article	IF	CITATIONS
77	Delayed Cerebral Ischemia after Subarachnoid Hemorrhage: Beyond Vasospasm and Towards a Multifactorial Pathophysiology. Current Atherosclerosis Reports, 2017, 19, 50.	2.0	197
78	Intranasally administered IGF-1 inhibits spreading depression in vivo. Brain Research, 2017, 1677, 47-57.	1.1	16
79	Migraine and risk of stroke: a national population-based twin study. Brain, 2017, 140, 2653-2662.	3.7	38
80	Lyapunov analysis of the spatially discrete-continuous system dynamics. Chaos, Solitons and Fractals, 2017, 104, 228-237.	2.5	2
81	The evolution of spatiotemporal chaos in a discrete-continuous active medium. Technical Physics Letters, 2017, 43, 587-589.	0.2	2
82	Heterogenous migraine aura symptoms correlate with visual cortex functional magnetic resonance imaging responses. Annals of Neurology, 2017, 82, 925-939.	2.8	41
83	Sex differences in the epidemiology, clinical features, and pathophysiology of migraine. Lancet Neurology, The, 2017, 16, 76-87.	4.9	424
84	Association between headache and temporomandibular disorder. Journal of the Korean Association of Oral and Maxillofacial Surgeons, 2017, 43, 363.	0.3	16
85	Connexin43- and Pannexin-Based Channels in Neuroinflammation and Cerebral Neuropathies. Frontiers in Molecular Neuroscience, 2017, 10, 320.	1.4	30
86	Differentiating arterial ischaemic stroke from migraine in the paediatric emergency department. Developmental Medicine and Child Neurology, 2018, 60, 1117-1122.	1.1	21
87	Activation of pial and dural macrophages and dendritic cells by cortical spreading depression. Annals of Neurology, 2018, 83, 508-521.	2.8	59
88	Migraine with visual aura associated with thicker visual cortex. Brain, 2018, 141, 776-785.	3.7	52
89	Primary headaches. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 146, 267-284.	1.0	2
90	The role of nutrients in the pathogenesis and treatment of migraine headaches: Review. Biomedicine and Pharmacotherapy, 2018, 102, 317-325.	2.5	63
91	Electroencephalographic Patterns in Neurocritical Care: Pathologic Contributors or Epiphenomena?. Neurocritical Care, 2018, 29, 9-19.	1.2	15
92	Initiation of spreading depression by synaptic and network hyperactivity: Insights into trigger mechanisms of migraine aura. Cephalalgia, 2018, 38, 1177-1187.	1.8	30
93	Headache. American Journal of Medicine, 2018, 131, 17-24.	0.6	85
94	The pathophysiology of migraine: implications for clinical management. Lancet Neurology, The, 2018, 17, 174-182.	4.9	374

#	Article	IF	CITATIONS
95	The burden of migraine. InnovAiT, 2018, 11, 705-706.	0.0	0
96	Loss of Blood-Brain Barrier Integrity in a KCl-Induced Model of Episodic Headache Enhances CNS Drug Delivery. ENeuro, 2018, 5, ENEURO.0116-18.2018.	0.9	26
97	The Role of Vagus Nerve Stimulation in the Treatment of Central and Peripheral Pain Disorders and Related Comorbid Somatoform Conditions. , 2018, , 1551-1564.		0
98	Migraine and Tension-Type Headache. Seminars in Neurology, 2018, 38, 608-618.	0.5	29
99	Episodic Migraine With and Without Aura: Key Differences and Implications for Pathophysiology, Management, and Assessing Risks. Current Pain and Headache Reports, 2018, 22, 78.	1.3	44
100	Macro scale modelling of cortical spreading depression and the role of astrocytic gap junctions. Journal of Theoretical Biology, 2018, 458, 78-91.	0.8	7
101	Posttraumatic Headache: Basic Mechanisms and Therapeutic Targets. Headache, 2018, 58, 811-826.	1.8	34
102	Pathophysiology of Migraine. , 2018, , 43-60.		Ο
103	Magnetic resonance imaging of arterial stroke mimics: a pictorial review. Insights Into Imaging, 2018, 9, 815-831.	1.6	48
104	The Enlightened Brain: Novel Imaging Methods Focus on Epileptic Networks at Multiple Scales. Frontiers in Cellular Neuroscience, 2018, 12, 82.	1.8	13
105	Understanding Spreading Depression from Headache to Sudden Unexpected Death. Frontiers in Neurology, 2018, 9, 19.	1.1	51
106	waveCSD: A method for estimating transmembrane currents originated from propagating neuronal activity in the neocortex: Application to study cortical spreading depression. Journal of Neuroscience Methods, 2018, 307, 106-124.	1.3	2
107	Migraine with aura and white matter tract changes. Acta Neurologica Belgica, 2018, 118, 485-491.	0.5	15
108	CGRP in Human Models of Migraine. Handbook of Experimental Pharmacology, 2018, 255, 109-120.	0.9	34
109	Serum apolipoprotein E may be a novel biomarker of migraine. PLoS ONE, 2018, 13, e0190620.	1.1	11
111	Is allergic rhinitis related to migraine disability in adults?. Arquivos De Neuro-Psiquiatria, 2019, 77, 424-428.	0.3	4
112	Emerging Treatment Targets for Migraine and Other Headaches. Headache, 2019, 59, 50-65.	1.8	22
113	Serotonin and nociception: from nociceptive transduction at the periphery to pain modulation from the brain. , 2019, , 203-224.		2

	CHANON R		
#	Article	IF	CITATIONS
114	Lamotrigine in the Prevention of Migraine With Aura: A Narrative Review. Headache, 2019, 59, 1187-1197.	1.8	23
115	Altered Resting State Functional Activity and Microstructure of the White Matter in Migraine With Aura. Frontiers in Neurology, 2019, 10, 1039.	1.1	17
117	Management of Childhood Headache in the Emergency Department. Review of the Literature. Frontiers in Neurology, 2019, 10, 886.	1.1	48
118	Graphdiyne oxide enhances the stability of solid contact-based ionselective electrodes for excellent in vivo analysis. Science China Chemistry, 2019, 62, 1414-1420.	4.2	26
119	Divergent influences of the locus coeruleus on migraine pathophysiology. Pain, 2019, 160, 385-394.	2.0	45
120	Shared microglial mechanisms underpinning depression and chronic fatigue syndrome and their comorbidities. Behavioural Brain Research, 2019, 372, 111975.	1.2	26
121	Clinical neurophysiology of migraine with aura. Journal of Headache and Pain, 2019, 20, 42.	2.5	48
122	The effects of cerebral curvature on cortical spreading depression. Journal of Theoretical Biology, 2019, 472, 11-26.	0.8	4
123	Epidemiology of Migraine in Men and Women. Headache, 2019, , 1-15.	0.2	2
124	In Vivo Measurement of Calcium Ion with Solid-State Ion-Selective Electrode by Using Shelled Hollow Carbon Nanospheres as a Transducing Layer. Analytical Chemistry, 2019, 91, 4421-4428.	3.2	42
125	Recent Insights in Migraine With Aura: A Narrative Review of Advanced Neuroimaging. Headache, 2019, 59, 637-649.	1.8	12
126	Current understanding of cortical structure and function in migraine. Cephalalgia, 2019, 39, 1683-1699.	1.8	58
127	Clinical characteristics of migraine in patients with calcified neurocysticercosis. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2019, 113, 418-423.	0.7	2
128	Aquaporinâ€4â€independent volume dynamics of astroglial endfeet during cortical spreading depression. Glia, 2019, 67, 1113-1121.	2.5	25
129	Relating Photophobia, Visual Aura, and Visual Triggers of Headache and Migraine. Headache, 2019, 59, 430-442.	1.8	22
130	Gender and Migraine. Headache, 2019, , .	0.2	3
131	A computational study on the role of glutamate and NMDA receptors on cortical spreading depression using a multidomain electrodiffusion model. PLoS Computational Biology, 2019, 15, e1007455.	1.5	18
132	Migraine: The Disease of the Year. Journal of Neuro-Ophthalmology, 2019, 39, 1-2.	0.4	0

		CITATION REPORT		
#	Article		IF	CITATIONS
133	Animal Models in Chronic Daily Headache (CDH) and Pathophysiology of CDH. , 2019,	, 289-308.		0
134	Behavioral and electrophysiological brain effects of aspartame on well-nourished and n rats. Metabolic Brain Disease, 2019, 34, 651-658.	nalnourished	1.4	4
135	Gap junctions, pannexins and pain. Neuroscience Letters, 2019, 695, 46-52.		1.0	62
136	Simultaneous bilateral visual auras: A case report. Cephalalgia, 2019, 39, 162-163.		1.8	0
137	Spontaneous BOLD waves – A novel hemodynamic activity in Sprague-Dawley rat bra functional magnetic resonance imaging. Journal of Cerebral Blood Flow and Metabolisr 1949-1960.	ain detected by n, 2019, 39,	2.4	5
138	Cortical spreading depression as a site of origin for migraine: Role of CGRP. Cephalalgia 428-434.	a, 2019, 39,	1.8	71
139	Cerebrovascular effects of endothelin-1 investigated using high-resolution magnetic re imaging in healthy volunteers. Journal of Cerebral Blood Flow and Metabolism, 2020, 4	sonance 0, 1685-1694.	2.4	21
140	Migraine Headache. , 2020, , 117-127.			0
141	Mapping migraine to a common brain network. Brain, 2020, 143, 541-553.		3.7	55
142	Randomized Clinical Trials of PFO Closure for Migraine Headache (MIST, PRIMA, PREMI 129-139.	UM). , 2020, ,		0
143	Temporal instability of salience network activity in migraine with aura. Pain, 2020, 161	, 856-864.	2.0	23
144	Proposal for a new diagnosis for U.S. diplomats in Havana, Cuba, experiencing vestibul neurological symptoms. Medical Hypotheses, 2020, 136, 109499.	ar and	0.8	3
145	Metabolism plays a central role in the cortical spreading depression: Evidence from a m model. Journal of Theoretical Biology, 2020, 486, 110093.	lathematical	0.8	0
146	Post-traumatic cephalalgia. NeuroRehabilitation, 2020, 47, 327-342.		0.5	3
147	Forebrain delta opioid receptors regulate the response of delta agonist in models of mi opioid-induced hyperalgesia. Scientific Reports, 2020, 10, 17629.	graine and	1.6	16
148	Astrocyte deletion of î±2-Na/K ATPase triggers episodic motor paralysis in mice via a m Nature Communications, 2020, 11, 6164.	etabolic pathway.	5.8	23
149	Stopped At the Border: Cortical Spreading Depolarization Blocks Seizure Propagation. Currents, 2020, 20, 171-172.	Epilepsy	0.4	1
150	Pain, Motivation, Migraine, and the Microbiome: New Frontiers for Opioid Systems and Molecular Pharmacology, 2020, 98, 433-444.	Disease.	1.0	9

#	Article	IF	CITATIONS
151	Migraine and aura triggered by normobaric hypoxia. Cephalalgia, 2020, 40, 1561-1573.	1.8	16
152	Parametric exploration of cellular swelling in a computational model of cortical spreading depression. , 2020, 2020, 2491-2495.		1
153	Sex Differences in the Epilepsies and Associated Comorbidities: Implications for Use and Development of Pharmacotherapies. Pharmacological Reviews, 2020, 72, 767-800.	7.1	58
154	Is it Useful to Do a Taxonomy of Complex Visual Symptoms in Migraine? A Comment on Coining the Pablo Picasso Syndrome. Headache, 2020, 60, 1200-1201.	1.8	0
155	Functional NHE1 expression is critical to blood brain barrier integrity and sumatriptan blood to brain uptake. PLoS ONE, 2020, 15, e0227463.	1.1	8
156	Findings in susceptibility weighted imaging in pediatric patients with migraine with aura. European Journal of Paediatric Neurology, 2020, 28, 221-227.	0.7	8
157	The Multiple Clinical Manifestations of Patent Foramen Ovale. Structural Heart, 2020, 4, 159-168.	0.2	0
158	Pannexinâ€l in the CNS: Emerging concepts in health and disease. Journal of Neurochemistry, 2020, 154, 468-485.	2.1	41
159	Serum Homocysteine, Pyridoxine, Folate, and Vitamin B12 Levels in Migraine: Systematic Review and Metaâ€Analysis. Headache, 2020, 60, 1508-1534.	1.8	22
160	Neurons, Clia, Extracellular Matrix and Neurovascular Unit: A Systems Biology Approach to the Complexity of Synaptic Plasticity in Health and Disease. International Journal of Molecular Sciences, 2020, 21, 1539.	1.8	64
161	Dysphasia and Other Higher Cortical Dysfunctions During the Migraine Aura—a Systematic Review of Literature. Current Pain and Headache Reports, 2020, 24, 3.	1.3	8
162	Brain GABA and glutamate levels across pain conditions: A systematic literature review and meta-analysis of 1H-MRS studies using the MRS-Q quality assessment tool. NeuroImage, 2020, 210, 116532.	2.1	98
163	An Evidence-Based Review of Fremanezumab for the Treatment of Migraine. Pain and Therapy, 2020, 9, 195-215.	1.5	17
164	A highly sensitive and selective nanosensor for near-infrared potassium imaging. Science Advances, 2020, 6, eaax9757.	4.7	56
165	Migraine and Two-Pore-Domain Potassium Channels. Neuroscientist, 2021, 27, 268-284.	2.6	5
166	Spreading Depressions and Periinfarct Spreading Depolarizations in the Context of Cortical Plasticity. Neuroscience, 2021, 453, 81-101.	1.1	1
167	Transient loss of interhemispheric functional connectivity following unilateral cortical spreading depression in awake rats. Cephalalgia, 2021, 41, 353-365.	1.8	5
168	Prevalence and characteristics of Alice in Wonderland Syndrome in adult migraineurs: Perspectives from a tertiary referral headache unit. Cephalalgia, 2021, 41, 515-524.	1.8	15

ARTICLE IF CITATIONS Microplatforms as a model for neurological conditions., 2021, , 495-509. 0 169 170 Advances in migraine therapeutics: The role of calcitonin gene-related peptide., 2021, , 181-201. Migraine in transient global amnesia: a meta-analysis of observational studies. Journal of Neurology, 171 19 1.8 2022, 269, 184-196. Visual Aura., 2021, , 197-206. Association between tumor necrosis factor alpha and lymphotoxin alpha gene polymorphisms and 173 0.9 8 migraine occurrence among Jordanians. Neurological Sciences, 2021, 42, 3625-3630. Optical coherence tomography of arteriolar diameter and capillary perfusion during spreading depolarizations. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2256-2263. 174 2.4 176 Migraine: Calcium Channels and Clia. International Journal of Molecular Sciences, 2021, 22, 2688. 1.8 13 Treatment of Long-term Sudden Sensorineural Hearing Loss as an Otologic Migraine Phenomenon. Otology and Neurotology, 2021, 42, 1001-1007. Contributions of aversive environmental stress to migraine chronification: Research update of 178 0.3 4 migraine pathophysiology. World Journal of Clinical Cases, 2021, 9, 2136-2145. Opening of ATP sensitive potassium channels causes migraine attacks with aura. Brain, 2021, 144, 179 48 2322-2332. Neuronal complexity is attenuated in preclinical models of migraine and restored by HDAC6 inhibition. 180 21 2.8 ELife, 2021, 10, . Migraine with Brainstem Aura Accompanied by Disorders of Consciousness. Journal of Pain Research, 0.8 2021, Volume 14, 1119-1127. 182 Spreading depression as an innate antiseizure mechanism. Nature Communications, 2021, 12, 2206. 5.8 36 Brain Energy Deficit as a Source of Oxidative Stress in Migraine: A Molecular Basis for Migraine 1.6 29 Susceptibility. Neurochemical Research, 2021, 46, 1913-1932. Characterization of optogenetically-induced cortical spreading depression in awake mice using 184 1.8 13 graphene micro-transistor arrays. Journal of Neural Engineering, 2021, 18, 055002. Magnetic Suppression of Perceptual Accuracy Is Not Reduced in Visual Snow Syndrome. Frontiers in 1.1 Neurology, 2021, 12, 658857. Altered Metabolites in the Occipital Lobe in Migraine Without Aura During the Attack and the 186 1.1 10 Interictal Period. Frontiers in Neurology, 2021, 12, 656349. Pannexin-1 Channels as Mediators of Neuroinflammation. International Journal of Molecular 1.8 Sciences, 2021, 22, 5189.

#	Article	IF	CITATIONS
188	Migraine Visual Aura and Cortical Spreading Depression—Linking Mathematical Models to Empirical Evidence. Vision (Switzerland), 2021, 5, 30.	0.5	9
189	Metabolic Aspects of Migraine: Association With Obesity and Diabetes Mellitus. Frontiers in Neurology, 2021, 12, 686398.	1.1	21
190	Dysregulation of the peripheral glutamatergic system: A key player in migraine pathogenesis?. Cephalalgia, 2021, 41, 1249-1261.	1.8	5
191	Comparison of retinal nerve fiber layer, macular ganglion cell complex and choroidal thickness in patients with migraine with and without aura by using optical coherence tomography. Photodiagnosis and Photodynamic Therapy, 2021, 34, 102323.	1.3	8
192	Migraine and neuroinflammation: the inflammasome perspective. Journal of Headache and Pain, 2021, 22, 55.	2.5	97
193	Pathophysiology of Migraine. CONTINUUM Lifelong Learning in Neurology, 2021, 27, 586-596.	0.4	8
194	Tinnitus and Subjective Hearing Loss are More Common in Migraine: A Cross-Sectional NHANES Analysis. Otology and Neurotology, 2021, 42, 1329-1333.	0.7	18
195	Sex hormones regulate NHE1 functional expression and brain endothelial proteome to control paracellular integrity of the blood endothelial barrier. Brain Research, 2021, 1763, 147448.	1.1	4
196	Symptomatic migraine: A systematic review to establish a clinically important diagnostic entity. Headache, 2021, 61, 1180-1193.	1.8	8
197	Applications of Ketogenic Diets in Patients with Headache: Clinical Recommendations. Nutrients, 2021, 13, 2307.	1.7	20
198	Narrative review of neuroimaging in migraine with aura. Headache, 2021, 61, 1324-1333.	1.8	5
199	Migraine Features in Patients With Isolated Aural Fullness and Proposal for a New Diagnosis. Otology and Neurotology, 2021, 42, 1580-1584.	0.7	9
200	Continuous longâ€ŧerm recording and triggering of brain neurovascular activity and behaviour in freely moving rodents. Journal of Physiology, 2021, 599, 4545-4559.	1.3	4
201	Functional connectivity changes in complex migraine aura: beyond the visual network. European Journal of Neurology, 2022, 29, 295-304.	1.7	20
202	Review and Hypothesis: A Potential Common Link Between Glial Cells, Calcium Changes, Modulation of Synaptic Transmission, Spreading Depression, Migraine, and Epilepsy—H+. Frontiers in Cellular Neuroscience, 2021, 15, 693095.	1.8	4
203	Cerebellar spreading depolarization mediates paroxysmal movement disorder. Cell Reports, 2021, 36, 109743.	2.9	18
204	Initiation of migraine-related cortical spreading depolarization by hyperactivity of GABAergic neurons and NaV1.1 channels. Journal of Clinical Investigation, 2021, 131, .	3.9	23
205	Protracted hypomobility in the absence of trigeminal sensitization after cortical spreading depolarization: Relevance to migraine postdrome. Neuroscience Research, 2021, 172, 80-86.	1.0	1

# 206	ARTICLE Contribution of gut microbiota in the pathogenesis of migraine headache. , 2021, , 267-286.	IF	CITATIONS
210	The Migraine Aura. CONTINUUM Lifelong Learning in Neurology, 2018, 24, 1009-1022.	0.4	28
211	Advances in the understanding of delayed cerebral ischaemia after aneurysmal subarachnoid haemorrhage. F1000Research, 2015, 4, 1200.	0.8	24
212	Characterization of Inhibitory GABA-A Receptor Activation during Spreading Depolarization in Brain Slice. PLoS ONE, 2014, 9, e110849.	1.1	14
213	Cortical Spreading Depression Promotes Persistent Mechanical Sensitization of Intracranial Meningeal Afferents: Implications for the Intracranial Mechanosensitivity of Migraine. ENeuro, 2016, 3, ENEURO.0287-16.2016.	0.9	29
214	Ion Channels as Drug Targets in Central Nervous System Disorders. Current Medicinal Chemistry, 2013, 20, 1241-1285.	1.2	94
215	Brain Aging and Disorders of the Central Nervous System: Kynurenines and Drug Metabolism. Current Drug Metabolism, 2016, 17, 412-429.	0.7	21
216	A Review of the Potential Receptors of Migraine with a Special Emphasis on CGRP to Develop an Ideal Antimigraine Drug. Current Molecular Pharmacology, 2020, 14, 11-26.	0.7	6
217	Migraine Cause And Treatment. Mental Health in Family Medicine, 2015, 11, .	0.2	4
218	Brain Disorders and Chemical Pollutants: A Gap Junction Link?. Biomolecules, 2021, 11, 51.	1.8	16
219	Real-time in vivo imaging of extracellular ATP in the brain with a hybrid-type fluorescent sensor. ELife, 2020, 9, .	2.8	38
220	Understanding the link between obesity and headache- with focus on migraine and idiopathic intracranial hypertension. Journal of Headache and Pain, 2021, 22, 123.	2.5	18
221	Brain networks in migraine with and without aura: An exploratory arterial spin labeling MRI study. Acta Neurologica Scandinavica, 2022, 145, 208-214.	1.0	10
222	Clinical correlates of hypothalamic functional changes in migraine patients. Cephalalgia, 2022, 42, 279-290.	1.8	14
223	Is It Migraine Aura in the Elderly or Transient Ischaemic Attack?. Headache, 2015, , 119-125.	0.2	0
225	The Association of Patent Foramen Ovale and Migraine Headache. , 2015, , 81-94.		0
226	Migraine as a risk factor for glaucoma. Regional Blood Circulation and Microcirculation, 2016, 15, 17-29.	0.1	0
227	Intrinsic Optical Signal Imaging of Seizures and Cortical Spreading Depressiona 7t. , 2017, , .		0

#	Article	IF	CITATIONS
228	Animal Models of Migraine. , 2017, , 105-115.		0
229	Care of Patients with Neurologic Disease. , 2018, , 375-386.		0
230	Vestibular Migraine. Journal of Clinical Otolaryngology, 2019, 30, 149-156.	0.1	0
233	Angiography-Induced Aphasia Presenting Seizure-Like Brain Perfusion Single Positron Emission Computed Tomography without Epileptiform Discharge. Journal of the Korean Neurological Association, 2021, 39, 362-365.	0.0	0
234	Migraine a Disorder Involving Trigeminal Pathways Modulated by the Brainstem and Diencephalon. , 2020, , 540-549.		0
237	Adding pieces to the Alice in wonderland syndrome puzzle: a comment to the paper by Brooks and colleagues. Arquivos De Neuro-Psiquiatria, 2020, 78, 242-243.	0.3	0
239	Lasmiditan for the Treatment of Migraines With or Without Aura in Adults. Psychopharmacology Bulletin, 2020, 50, 163-188.	0.0	0
240	Accurate numerical simulation of electrodiffusion and water movement in brain tissue. Mathematical Medicine and Biology, 2021, 38, 516-551.	0.8	8
241	Clinical characteristics and perfusionâ€computed tomography alterations in a series of patients with migraine with aura attended as stroke code. Headache, 2021, 61, 1568-1574.	1.8	6
242	Mutations in the Voltage Dependent Calcium Channel CACNA1A (P/Q type alpha 1A subunit) Causing Neurological Disorders - An Overview. Neurology India, 2021, 69, 808.	0.2	3
243	Cortical mechanisms in migraine. Molecular Pain, 2021, 17, 174480692110502.	1.0	8
244	Prevalence and impact of visual aura in migraine and probable migraine: a population study. Scientific Reports, 2022, 12, 426.	1.6	14
245	Migraine. Nature Reviews Disease Primers, 2022, 8, 2.	18.1	154
246	Cortical spreading depression: culprits and mechanisms. Experimental Brain Research, 2022, 240, 733-749.	0.7	11
247	Migraine Aura, Transient Ischemic Attacks, Stroke, and Dying of the Brain Share the Same Key Pathophysiological Process in Neurons Driven by Gibbs–Donnan Forces, Namely Spreading Depolarization. Frontiers in Cellular Neuroscience, 2022, 16, 837650.	1.8	33
248	PACAP-PAC1 Receptor Inhibition is Effective in Models of Opioid-Induced Hyperalgesia and Medication Overuse Headache. SSRN Electronic Journal, 0, , .	0.4	0
249	Could the New Anti-CGRP Monoclonal Antibodies Be Effective in Migraine Aura? Case Reports and Literature Review. Journal of Clinical Medicine, 2022, 11, 1228.	1.0	11
250	Assessment of Erenumab Safety and Efficacy in Patients With Migraine With and Without Aura. JAMA Neurology, 2022, 79, 159.	4.5	19

#	Article	IF	CITATIONS
251	Diagnostic utility of T2*-weighted GRE in migraine with aura attack. The cortical veins sign. Cephalalgia, 2022, , 033310242210764.	1.8	2
252	Photophobia in headache disorders: characteristics and potential mechanisms. Journal of Neurology, 2022, 269, 4055-4067.	1.8	6
253	Pathophysiology of transient neurological deficit in patients with chronic subdural hematoma: A systematic review. Acta Neurologica Scandinavica, 2022, 145, 649-657.	1.0	2
254	Migraine, Brain Glucose Metabolism and the "Neuroenergetic―Hypothesis: A Scoping Review. Journal of Pain, 2022, 23, 1294-1317.	0.7	20
255	Gut microbiota and migraine. Neurobiology of Pain (Cambridge, Mass), 2022, 11, 100090.	1.0	14
256	FKN/CX3CR1 axis facilitates migraine-Like behaviour by activating thalamic-cortical network microglia in status epilepticus model rats. Journal of Headache and Pain, 2022, 23, 42.	2.5	17
258	维生ç´C在è,,'æ¥̈伿¨¡åž‹ä,å•北规律的ç"ç©¶èչ›å±•. Chinese Science Bulletin, 2022, , .	0.4	1
260	Different characteristics of cortical spreading depression in the sleep and wake states. Headache, 2022, 62, 577-587.	1.8	8
261	Effectiveness of Transcranial Direct Current Stimulation and Monoclonal Antibodies Acting on the CGRP as a Combined Treatment for Migraine (TACTIC): Protocol for a Randomized, Double-Blind, Sham-Controlled Trial. Frontiers in Neurology, 2022, 13, .	1.1	2
262	CGRP and the Calcitonin Receptor are Co-Expressed in Mouse, Rat and Human Trigeminal Ganglia Neurons. Frontiers in Physiology, 2022, 13, .	1.3	13
263	Ratanasampil is more effective than flunarizine in relieving migraine. International Journal of Neuroscience, 2023, 133, 1326-1337.	0.8	1
264	Living on the border of the CNS: Dural immune cells in health and disease. Cellular Immunology, 2022, 377, 104545.	1.4	3
266	CGRP and PACAP-38 play an important role in diagnosing pediatric migraine. Journal of Headache and Pain, 2022, 23, .	2.5	11
268	Migraine and peripheral pain models show differential alterations in neuronal complexity. Headache, 2022, 62, 780-791.	1.8	9
269	Microstructural white matter alterations associated with migraine headaches: a systematic review of diffusion tensor imaging studies. Brain Imaging and Behavior, 2022, 16, 2375-2401.	1.1	12
270	Extracellular Alterations in pH and K+ Modify the Murine Brain Endothelial Cell Total and Phospho-Proteome. Pharmaceutics, 2022, 14, 1469.	2.0	1
271	The hypothalamus may mediate migraine and ictal photophobia: evidence from Granger causality analysis. Neurological Sciences, 0, , .	0.9	2
272	Altered Cortical Trigeminal Fields Excitability by Spreading Depolarization Revealed with <i>in Vivo</i> Functional Ultrasound Imaging Combined with Electrophysiology. Journal of Neuroscience, 2022, 42, 6295-6308.	1.7	3

ARTICLE IF CITATIONS # Delta opioid receptors in Nav1.8 expressing peripheral neurons partially regulate the effect of delta agonist in models of migraine and opioid-induced hyperalgesia. Neurobiology of Pain (Cambridge, Mass) Tj ETQq0 Q @rgBT / Overlock 10 273 Synergistic Charge Percolation in Conducting Polymers Enables Highâ€Performance In Vivo Sensing of 274 1.6 Neurochemical and Neuroelectrical Signals. Angewandte Chemie, Ö, , . Synergistic Charge Percolation in Conducting Polymers Enables Highâ€Performance In Vivo Sensing of 275 7.2 10 Neurochemical and Neuroelectrical Signals. Angewandte Chemie - International Edition, 2022, 61, . Trigeminovascular effects of propranolol in men and women, role for sex steroids. Annals of Clinical and Translational Neurology, 2022, 9, 1405-1416. Headache persisting after aneurysmal subarachnoid hemorrhage: A narrative review of 278 7 1.8 pathophysiology and therapeutic strategies. Headache, 2022, 62, 1120-1132. A c-Fos activation map in nitroglycerin/levcromakalim-induced models of migraine. Journal of Headache and Pain, 2022, 23, . 279 2.5 Evaluation of the Patient With Paroxysmal Spells Mimicking Epileptic Seizures. Neurologist, 2023, 28, 280 0.4 3 207-217. Migraine and Neuromodulation: A Literature Review. Cureus, 2022, , . 0.2 282 Animal models of orofacial pain comorbidity in mice., 2023, , 317-325. 0 Lack of Habituation in Migraine Patients Based on High-Density EEG Analysis Using the Steady State of 1.1 Visual Evoked Potential. Entropy, 2022, 24, 1688. Natureâ€inspired K⁺â€sensitive imaging probes for biomedical applications., 2023, 1, . 284 4 CGRP physiology, pharmacology, and therapeutic targets: migraine and beyond. Physiological Reviews, 2023, 103, 1565-1644. 13.1 Cortical pain induced by optogenetic cortical spreading depression: from whole brain activity 286 1.3 6 mapping. Molecular Brain, 2022, 15, . Prolonged neurologic deficits with brain MRI changes following ECT in an adolescent with a CACNA1a-related disorder; a case report. BMC Neurology, 2022, 22, . 0.8 PACAP-PAC1 receptor inhibition is effective in opioid induced hyperalgesia and medication overuse 288 1.9 1 headache models. IScience, 2023, 26, 105950. Autonomic dysfunction in epilepsy mouse models with implications for SUDEP research. Frontiers in 1.1 Neurology, 0, 13, . Preclinical Studies of Posttraumatic Headache and the Potential Therapeutics. Cells, 2023, 12, 155. 290 1.8 4

291Altered brain activity and functional connectivity in migraine without aura during and outside0.61291attack. Neurological Research, 2023, 45, 603-609.0.61

#	Article	IF	CITATIONS
292	Normobaric oxygen may attenuate the headache in patients with patent foramen povale and migraine. BMC Neurology, 2023, 23, .	0.8	1
293	Causal relationships between migraine and microstructural white matter: a Mendelian randomization study. Journal of Headache and Pain, 2023, 24, .	2.5	6
294	A Narrative Review of Visual Hallucinations in Migraine and Epilepsy: Similarities and Differences in Children and Adolescents. Brain Sciences, 2023, 13, 643.	1.1	1
295	The putative role of neuroinflammation in the complex pathophysiology of migraine: From bench to bedside. Neurobiology of Disease, 2023, 180, 106072.	2.1	10
296	Pediatric Migraine. , 2022, , 21-43.		0
297	Primary headache disorders: From pathophysiology to neurostimulation therapies. Heliyon, 2023, 9, e14786.	1.4	4
298	Isolated wave segments in a neural tissue model with volume transmission: discreteness matters. European Physical Journal: Special Topics, 0, , .	1.2	1
299	Clia Signaling and Brain Microenvironment in Migraine. Molecular Neurobiology, 2023, 60, 3911-3934.	1.9	4
300	Other diseases of the CNS. , 2023, , 629-672.		0
325	Pathophysiology of migraine aura. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2023, , 71-83.	1.0	0
335	Case report: Late onset type 3 hemiplegic migraine with permanent neurologic sequelae after attacks. Frontiers in Neurology, 0, 15, .	1.1	0