

# Hayrunnisa Bolay

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

5,770  
citations

147801

31  
h-index

88630

70  
g-index

82  
all docs

82  
docs citations

82  
times ranked

5265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic brain activity triggers trigeminal meningeal afferents in a migraine model. <i>Nature Medicine</i> , 2002, 8, 136-142.	30.7	1,083
2	Dynamic Imaging of Cerebral Blood Flow Using Laser Speckle. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 195-201.	4.3	780
3	Cortical spreading depression activates and upregulates MMP-9. <i>Journal of Clinical Investigation</i> , 2004, 113, 1447-1455.	8.2	389
4	Simultaneous imaging of total cerebral hemoglobin concentration, oxygenation, and blood flow during functional activation. <i>Optics Letters</i> , 2003, 28, 28.	3.3	320
5	Cortical spreading depression activates and upregulates MMP-9. <i>Journal of Clinical Investigation</i> , 2004, 113, 1447-1455.	8.2	261
6	Deciphering migraine mechanisms: Clues from familial hemiplegic migraine genotypes. <i>Annals of Neurology</i> , 2004, 55, 276-280.	5.3	207
7	COVID-19 is a Real Headache!. <i>Headache</i> , 2020, 60, 1415-1421.	3.9	204
8	Role of Endothelial Nitric Oxide Generation and Peroxynitrite Formation in Reperfusion Injury After Focal Cerebral Ischemia. <i>Stroke</i> , 2000, 31, 1974-1981.	2.0	169
9	Nuclear factor- $\kappa$ B as a molecular target for migraine therapy. <i>Annals of Neurology</i> , 2002, 51, 507-516.	5.3	167
10	Pinealectomy Aggravates and Melatonin Administration Attenuates Brain Damage in Focal Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 511-516.	4.3	150
11	Mechanisms of pain modulation in chronic syndromes. <i>Neurology</i> , 2002, 59, S2-7.	1.1	134
12	Cognitive dysfunction and migraine. <i>Journal of Headache and Pain</i> , 2018, 19, 109.	6.0	120
13	Headache characteristics in COVID-19 pandemic-a survey study. <i>Journal of Headache and Pain</i> , 2020, 21, 121.	6.0	113
14	Persistent Defect in Transmitter Release and Synapsin Phosphorylation in Cerebral Cortex After Transient Moderate Ischemic Injury. <i>Stroke</i> , 2002, 33, 1369-1375.	2.0	102
15	Behavioral and cognitive animal models in headache research. <i>Journal of Headache and Pain</i> , 2019, 20, 11.	6.0	97
16	PCR detected hepatitis C virus genome in the brain of a case with progressive encephalomyelitis with rigidity. <i>Clinical Neurology and Neurosurgery</i> , 1996, 98, 305-308.	1.4	91
17	Does single cortical spreading depression elicit pain behaviour in freely moving rats?. <i>Cephalalgia</i> , 2010, 30, 1195-1206.	3.9	71
18	Mechanisms of Motor Dysfunction After Transient MCA Occlusion: Persistent Transmission Failure in Cortical Synapses Is a Major Determinant. <i>Stroke</i> , 1998, 29, 1988-1994.	2.0	68

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19	Systemic paracetamol-induced analgesic and antihyperalgesic effects through activation of descending serotonergic pathways involving spinal 5-HT <sub>7</sub> receptors. <i>European Journal of Pharmacology</i> , 2012, 677, 93-101.	3.5	67
20	Case Series of Headache Characteristics in COVID-19: Headache Can Be an Isolated Symptom. <i>Headache</i> , 2020, 60, 1788-1792.	3.9	67
21	CGRP receptor antagonist MK-8825 attenuates cortical spreading depression induced pain behavior. <i>Cephalalgia</i> , 2019, 39, 354-365.	3.9	64
22	Sex-related influences in migraine. <i>Journal of Neuroscience Research</i> , 2017, 95, 587-593.	2.9	61
23	Gender influences headache characteristics with increasing age in migraine patients. <i>Cephalalgia</i> , 2015, 35, 792-800.	3.9	58
24	Occlusion of the MCA by an intraluminal filament may cause disturbances in the hippocampal blood flow due to anomalies of circle of Willis and filament thickness. <i>Brain Research</i> , 1999, 822, 260-264.	2.2	53
25	Sex-Related Differences in Animal Models of Migraine Headache. <i>Headache</i> , 2011, 51, 891-904.	3.9	53
26	The thalamic reticular nucleus is activated by cortical spreading depression in freely moving rats: prevention by acute valproate administration. <i>European Journal of Neuroscience</i> , 2015, 41, 120-128.	2.6	52
27	HMGB1, NLRP3, IL-6 and ACE2 levels are elevated in COVID-19 with headache: a window to the infection-related headache mechanism. <i>Journal of Headache and Pain</i> , 2021, 22, 94.	6.0	48
28	Latent class cluster analysis identified hidden headache phenotypes in COVID-19: impact of pulmonary infiltration and IL-6. <i>Neurological Sciences</i> , 2021, 42, 1665-1673.	1.9	40
29	Cerebrovascular dynamics in patients with migraine: Near-infrared spectroscopy study. <i>Neuroscience Letters</i> , 2006, 400, 86-91.	2.1	39
30	Aura and Head pain: relationship and gaps in the translational models. <i>Journal of Headache and Pain</i> , 2019, 20, 94.	6.0	38
31	Altered mechanisms of motor-evoked potential generation after transient focal cerebral ischemia in the rat: implications for transcranial magnetic stimulation. <i>Brain Research</i> , 2000, 873, 26-33.	2.2	32
32	The effects of the estrus cycle and citalopram on anxiety-like behaviors and c-fos expression in rats. <i>Pharmacology Biochemistry and Behavior</i> , 2014, 124, 180-187.	2.9	32
33	Chronic daily administration of selegiline and EGb 761 increases brain's resistance to ischemia in mice. <i>Brain Research</i> , 2001, 917, 174-181.	2.2	31
34	Percutaneous Pulsed Radiofrequency Reduces Mechanical Allodynia in a Neuropathic Pain Model. <i>Anesthesia and Analgesia</i> , 2008, 107, 1406-1411.	2.2	30
35	Transcorneal stimulation of trigeminal nerve afferents to increase cerebral blood flow in rats with cerebral vasospasm: a noninvasive method to activate the trigeminovascular reflex. <i>Journal of Neurosurgery</i> , 2002, 97, 1179-1183.	1.6	29
36	Somatosensory temporal discrimination remains intact in tension-type headache whereas it is disrupted in migraine attacks. <i>Cephalalgia</i> , 2017, 37, 1241-1247.	3.9	29

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37	Balo's Concentric Sclerosis Report of Two Patients with Magnetic Resonance Imaging Follow-up. <i>Journal of Neuroimaging</i> , 1996, 6, 98-103.	2.0	24
38	Does Low Atmospheric Pressure Independently Trigger Migraine?. <i>Headache</i> , 2011, 51, 1426-1430.	3.9	23
39	Chronic Migraine Is Associated With Sustained Elevation of Somatosensory Temporal Discrimination Thresholds. <i>Headache</i> , 2016, 56, 1439-1447.	3.9	22
40	AVERROËS IN THE SCHOOL OF ATHENS. <i>Neurosurgery</i> , 2009, 64, 374-381.	1.1	21
41	The first phase of a migraine attack resides in the cortex. <i>Journal of Neural Transmission</i> , 2012, 119, 569-574.	2.8	21
42	Somatosensory temporal discrimination is prolonged during migraine attacks. <i>Headache</i> , 2016, 56, 104-112.	3.9	21
43	PRECLINICAL EVALUATION OF A NOVEL INTRACEREBRAL MICROINJECTION INSTRUMENT PERMITTING ELECTROPHYSIOLOGICALLY GUIDED DELIVERY OF THERAPEUTICS. <i>Neurosurgery</i> , 2004, 54, 1497-1507.	1.1	20
44	Transient High Altitude Neurological Dysfunction: An Origin in the Temporoparietal Cortex. <i>High Altitude Medicine and Biology</i> , 2004, 5, 71-75.	0.9	18
45	Are Migraine Patients at Increased Risk for Symptomatic Coronavirus Disease 2019 Due to Shared Comorbidities?. <i>Headache</i> , 2020, 60, 2508-2521.	3.9	18
46	Unusual Appearance of Intracranial Fibromuscular Dysplasia. <i>Angiology</i> , 1996, 47, 627-632.	1.8	17
47	Visual and Postural Motion-Evoked Dizziness Symptoms Are Predominant in Vestibular Migraine Patients. <i>Pain Medicine</i> , 2018, 19, 178-183.	1.9	17
48	Co-occurrence of migraine and atopy in children and adolescents: myth or a casual relationship?. <i>Current Opinion in Neurology</i> , 2017, 30, 287-291.	3.6	16
49	Metoclopramide inhibits trigeminovascular activation:evidence for effective acute attack treatment in migraine. <i>Turkish Journal of Medical Sciences</i> , 2017, 47, 343-347.	0.9	14
50	Reduced Short-Latency Afferent Inhibition Indicates Impaired Sensorimotor Integrity During Migraine Attacks. <i>Headache</i> , 2019, 59, 906-914.	3.9	14
51	Fibromuscular Dysplasia of the Basilar Artery: A Case with Brain Stem Stroke. <i>Angiology</i> , 1990, 41, 658-661.	1.8	12
52	Nitroglycerin challenge induces lateralized headache in nasociliarynerve-ligated rats: implications for chronic migraine. <i>Turkish Journal of Medical Sciences</i> , 2017, 47, 681-688.	0.9	12
53	Alpha interferon treatment in myasthenia gravis: Effects on natural killer cell activity. <i>Journal of Neuroimmunology</i> , 1998, 82, 109-115.	2.3	10
54	Intracranial Hypotension and Hypertension in Children and Adolescents. <i>Current Pain and Headache Reports</i> , 2014, 18, 430.	2.9	10

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55	Cyclosporine A-induced acute hepatotoxicity in guinea pigs is associated with endothelin-mediated decrease in local hepatic blood flow. <i>Life Sciences</i> , 2011, 88, 753-760.	4.3	9
56	Migren Patofizyolojisi. <i>Noropsikiyatri Arsivi</i> , 2013, 50, 1-7.	0.7	9
57	Thalamocortical network interruption: A fresh view for migraine symptoms. <i>Turkish Journal of Medical Sciences</i> , 2020, 50, 1651-1654.	0.9	9
58	Pharmacology. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2010, 97, 47-71.	1.8	8
59	Endothelial and Autonomic Functions in Patients with Migraine. <i>Pain Medicine</i> , 2020, 21, e222-e231.	1.9	8
60	The Neurobiology of Migraine and Transformation of Headache Therapy. , 2005, , 107-ii.		7
61	Delayed neurotoxic complication of intracavitary bleomycin therapy for craniopharyngioma in a child who had previously undergone radiosurgery. <i>Journal of Neurosurgery: Pediatrics</i> , 2007, 106, 391-393.	1.3	7
62	Gender differences in older adults with chronic migraine in Turkey. <i>Geriatrics and Gerontology International</i> , 2015, 15, 652-658.	1.5	7
63	Iron homeostasis is altered in response to hypoxia and hypothermic preconditioning in brain glial cells. <i>Turkish Journal of Medical Sciences</i> , 2020, 50, 2005-2016.	0.9	7
64	Migraine susceptibility is modulated by food triggers and analgesic overuse via sulfotransferase inhibition. <i>Journal of Headache and Pain</i> , 2022, 23, 36.	6.0	7
65	A Case of Sarcoidosis of the Central Nervous System and Orbita. <i>Case Reports in Medicine</i> , 2015, 2015, 1-3.	0.7	6
66	Cellular iron storage and trafficking are affected by GTN stimulation in primary glial and meningeal cell culture. <i>Turkish Journal of Biology</i> , 2021, 45, 46-55.	0.8	6
67	Late Onset Absence Seizures in Multiple Sclerosis: A Case Report. <i>Clinical EEG (electroencephalography)</i> , 1995, 26, 124-130.	0.9	5
68	Enlightning™ the impact of atmospheric conditions in headache. <i>Cephalalgia</i> , 2013, 33, 362-364.	3.9	4
69	Subclinical Impairment of Neuromuscular Transmission in Transient Global Amnesia. <i>Cognitive and Behavioral Neurology</i> , 2007, 20, 179-183.	0.9	3
70	Hemodynamic correlates of mental arithmetic task in migraine. , 2009, , .		3
71	Adulthood behavioral and neurodevelopmental effects of being raised by an ambivalent mother in rats: what does not kill you makes you stronger. <i>Turkish Journal of Medical Sciences</i> , 2016, 46, 1546-1560.	0.9	3
72	Protective Effect of the Iron Chelator Deferoxamine on Cerebral Vasospasm. <i>Vascular Surgery</i> , 1992, 26, 665-671.	0.3	2

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73	Spatially resolved cerebral blood flow imaging using laser speckle. , 2001, 4260, 16.		0
74	fNIRS measurements in migraine. , 2005, , .		0
75	Cerebral Hemodynamic Reactivity Measured by Near-Infrared Spectroscopy in Migraineurs. , 2005, 2005, 1484-7.		0
76	High frequency oscillations in brain hemodynamic response. Proceedings of SPIE, 2007, , .	0.8	0
77	The role of cortical spreading depression in migraine. Future Neurology, 2015, 10, 503-506.	0.5	0
78	Headache Anatomy and Mechanisms of Peripheral Nerve Interventions. Headache, 2019, , 7-16.	0.4	0
79	High Frequency Oscillations in Brain Hemodynamic Response. , 2007, , .		0
80	ARX Model Approach to Data Acquired From Healthy and Migraine Subjects. , 2008, , .		0