

# David Borsook

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

3,575  
citations

33  
h-index

58  
g-index

107  
ext. papers

4,597  
ext. citations

6.2  
avg, IF

5.89  
L-index

#	Paper	IF	Citations
103	The Omnipresence of Autonomic Modulation in Health and Disease.. <i>Progress in Neurobiology</i> , <b>2022</b> , 210, 102218	10.9	
102	Amygdala functional connectivity mediates the association between catastrophizing and threat-safety learning in youth with chronic pain.. <i>Pain</i> , <b>2022</b> , 163, 719-728	8	1
101	Stress, hypoglycemia, and the autonomic nervous system.. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2022</b> , 240, 102983	2.4	0
100	Brain-based measures of nociception during general anesthesia with remifentanyl: A randomized controlled trial.. <i>PLoS Medicine</i> , <b>2022</b> , 19, e1003965	11.6	0
99	Beating Pain with Psychedelics: Matter over Mind?. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2021</b> , 134, 104482-104482	9	1
98	Pain mechanisms and management in corneal cross-linking: a review.. <i>BMJ Open Ophthalmology</i> , <b>2021</b> , 6, e000878	3.2	0
97	Rhythmic Change of Cortical Hemodynamic Signals Associated with Ongoing Nociception in Awake and Anesthetized Individuals: An Exploratory Functional Near Infrared Spectroscopy Study. <i>Anesthesiology</i> , <b>2021</b> , 135, 877-892	4.3	2
96	Left to themselves: Time to target chronic pain in childhood rare diseases. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2021</b> , 126, 276-288	9	0
95	NIRS measures in pain and analgesia: Fundamentals, features, and function. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2021</b> , 120, 335-353	9	13
94	Pain stickiness in pediatric complex regional pain syndrome: A role for the nucleus accumbens. <i>Neurobiology of Pain (Cambridge, Mass)</i> , <b>2021</b> , 9, 100062	4	0
93	DTI and MTR Measures of Nerve Fiber Integrity in Pediatric Patients With Ankle Injury. <i>Frontiers in Pediatrics</i> , <b>2021</b> , 9, 656843	3.4	3
92	Biological laterality and peripheral nerve DTI metrics.. <i>PLoS ONE</i> , <b>2021</b> , 16, e0260256	3.7	2
91	Secondary effects on brain physiology caused by focused ultrasound-mediated disruption of the blood-brain barrier. <i>Journal of Controlled Release</i> , <b>2020</b> , 324, 450-459	11.7	22
90	Targeted manipulation of pain neural networks: The potential of focused ultrasound for treatment of chronic pain. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2020</b> , 115, 238-250	9	3
89	Stressful experiences in youth: "Set-up" for diminished resilience to chronic pain. <i>Brain, Behavior, &amp; Immunity - Health</i> , <b>2020</b> , 5, 100095	5.1	1
88	Enhancing Choice and Outcomes for Therapeutic Trials in Chronic Pain: N-of-1 + Imaging (+ i). <i>Trends in Pharmacological Sciences</i> , <b>2020</b> , 41, 85-98	13.2	3
87	Metabolic and Addiction Indices in Patients on Opioid Agonist Medication-Assisted Treatment: A Comparison of Buprenorphine and Methadone. <i>Scientific Reports</i> , <b>2020</b> , 10, 5617	4.9	6

86	Mechanisms Underlying Unconscious Processing and Their Alterations in Post-traumatic Stress Disorder: Neuroimaging of Zero Monetary Outcomes Contextually Framed as "No Losses" vs. "No Gains". <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 604867	5.1	0
85	Implications of the putamen in pain and motor deficits in complex regional pain syndrome. <i>Pain</i> , <b>2020</b> , 161, 595-608	8	10
84	Endometriosis and pain in the adolescent- striking early to limit suffering: A narrative review. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2020</b> , 108, 866-876	9	13
83	Brain signatures of threat-safety discrimination in adolescent chronic pain. <i>Pain</i> , <b>2020</b> , 161, 630-640	8	8
82	Clinical features and sex differences in pediatric post-traumatic headache: A retrospective chart review at a Boston area concussion clinic. <i>Cephalalgia</i> , <b>2020</b> , 40, 701-711	6.1	5
81	Commentary: Novel Use of Offset Analgesia to Assess Adolescents and Adults with Treatment Resistant Endometriosis-Associated Pain. <i>Journal of Pain Research</i> , <b>2020</b> , 13, 2775-2782	2.9	0
80	The cornucopia of central disinhibition pain - An evaluation of past and novel concepts. <i>Neurobiology of Disease</i> , <b>2020</b> , 145, 105041	7.5	1
79	Role of brain imaging in disorders of brain-gut interaction: a Rome Working Team Report. <i>Gut</i> , <b>2019</b> , 68, 1701-1715	19.2	50
78	The failing cascade: Comorbid post traumatic stress- and opioid use disorders. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2019</b> , 103, 374-383	9	14
77	Contribution of Loss of Large Fiber Function to Pain in 2 Samples of Oncology Patients. <i>Clinical Journal of Pain</i> , <b>2019</b> , 35, 37-42	3.5	1
76	Migraine in the Young Brain: Adolescents vs. Young Adults. <i>Frontiers in Human Neuroscience</i> , <b>2019</b> , 13, 87	3.3	5
75	Shifting brain circuits in pain chronicity. <i>Human Brain Mapping</i> , <b>2019</b> , 40, 4381-4396	5.9	6
74	The neurovascular response is attenuated by focused ultrasound-mediated disruption of the blood-brain barrier. <i>NeuroImage</i> , <b>2019</b> , 201, 116010	7.9	9
73	C-Fiber Assays in the Cornea vs. Skin. <i>Brain Sciences</i> , <b>2019</b> , 9,	3.4	7
72	Modulation of brain networks by sumatriptan-naproxen in the inflammatory soup migraine model. <i>Pain</i> , <b>2019</b> , 160, 2161-2171	8	4
71	Scale-free amplitude modulation of low-frequency fluctuations in episodic migraine. <i>Pain</i> , <b>2019</b> , 160, 2298-2304	8	3
70	Blue light activates pulvinar nuclei in longstanding idiopathic photophobia: A case report. <i>NeuroImage: Clinical</i> , <b>2019</b> , 24, 102096	5.3	3
69	Modulation of brain function by targeted delivery of GABA through the disrupted blood-brain barrier. <i>NeuroImage</i> , <b>2019</b> , 189, 267-275	7.9	17

68	Molecular and functional PET-fMRI measures of placebo analgesia in episodic migraine: Preliminary findings. <i>NeuroImage: Clinical</i> , <b>2018</b> , 17, 680-690	5.3	12
67	Children With Chronic Pain: Response Trajectories After Intensive Pain Rehabilitation Treatment. <i>Journal of Pain</i> , <b>2018</b> , 19, 207-218	5.2	41
66	Brain changes after spinal cord injury, a quantitative meta-analysis and review. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2018</b> , 90, 272-293	9	32
65	Threat Response System: Parallel Brain Processes in Pain vis-à-vis Fear and Anxiety. <i>Frontiers in Psychiatry</i> , <b>2018</b> , 9, 29	5	27
64	Responsivity of Periaqueductal Gray Connectivity Is Related to Headache Frequency in Episodic Migraine. <i>Frontiers in Neurology</i> , <b>2018</b> , 9, 61	4.1	26
63	Focused ultrasound induced opening of the blood-brain barrier disrupts inter-hemispheric resting state functional connectivity in the rat brain. <i>NeuroImage</i> , <b>2018</b> , 178, 414-422	7.9	17
62	Brodmann area 10: Collating, integrating and high level processing of nociception and pain. <i>Progress in Neurobiology</i> , <b>2018</b> , 161, 1-22	10.9	49
61	Age- and sex-related differences in the presentation of paediatric migraine: A retrospective cohort study. <i>Cephalalgia</i> , <b>2018</b> , 38, 1107-1118	6.1	12
60	A critical evaluation of validity and utility of translational imaging in pain and analgesia: Utilizing functional imaging to enhance the process. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2018</b> , 84, 407-423	9	14
59	Microstructural White Matter Abnormalities in the Dorsal Cingulum of Adolescents with IBS. <i>ENeuro</i> , <b>2018</b> , 5,	3.9	7
58	Visuospatial and Sensory Integration Tasks in Patients With Schizophrenia or Schizoaffective Disorder: Relationship to Body Mass Index and Smoking. <i>Frontiers in Psychiatry</i> , <b>2018</b> , 9, 473	5	2
57	Multi-task multiple kernel machines for personalized pain recognition from functional near-infrared spectroscopy brain signals <b>2018</b> ,		7
56	Reward and aversion processing in patients with post-traumatic stress disorder: functional neuroimaging with visual and thermal stimuli. <i>Translational Psychiatry</i> , <b>2018</b> , 8, 240	8.6	19
55	When pain gets stuck: the evolution of pain chronification and treatment resistance. <i>Pain</i> , <b>2018</b> , 159, 2421-2436	8	76
54	Brain network alterations in the inflammatory soup animal model of migraine. <i>Brain Research</i> , <b>2017</b> , 1660, 36-46	3.7	23
53	Anesthesia, brain changes, and behavior: Insights from neural systems biology. <i>Progress in Neurobiology</i> , <b>2017</b> , 153, 121-160	10.9	28
52	Neuropeptides and Neurotransmitters That Modulate Thalamo-Cortical Pathways Relevant to Migraine Headache. <i>Headache</i> , <b>2017</b> , 57 Suppl 2, 97-111	4.2	33
51	Imaging Pain and Headache <b>2017</b> , 363-376		

50	Opioidergic tone and pain susceptibility: interactions between reward systems and opioid receptors. <i>Pain</i> , <b>2017</b> , 158, 185-186	8	11
49	In child and adult migraineurs the somatosensory cortex stands out again: An arterial spin labeling investigation. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 4078-4087	5.9	16
48	Headache Professional Societies: Ethical Challenges and Suggested Solutions. <i>Headache</i> , <b>2017</b> , 57, 1273-1283	4.2	1
47	Migrainomics - identifying brain and genetic markers of migraine. <i>Nature Reviews Neurology</i> , <b>2017</b> , 13, 725-741	15	22
46	Parental Attitudes About Placebo Use in Children. <i>Journal of Pediatrics</i> , <b>2017</b> , 181, 272-278.e10	3.6	23
45	Identifying Rodent Resting-State Brain Networks with Independent Component Analysis. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 685	5.1	19
44	Resting-State Functional Connectivity in the Infant Brain: Methods, Pitfalls, and Potentiality. <i>Frontiers in Pediatrics</i> , <b>2017</b> , 5, 159	3.4	29
43	The Insula: A "Hub of Activity" in Migraine. <i>Neuroscientist</i> , <b>2016</b> , 22, 632-652	7.6	76
42	Ocular neuropathic pain. <i>British Journal of Ophthalmology</i> , <b>2016</b> , 100, 128-34	5.5	103
41	Mayer waves reduce the accuracy of estimated hemodynamic response functions in functional near-infrared spectroscopy. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 3078-88	3.5	72
40	Circles of engagement: Childhood pain and parent brain. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2016</b> , 68, 537-546	9	14
39	Rapid treatment-induced brain changes in pediatric CRPS. <i>Brain Structure and Function</i> , <b>2016</b> , 221, 1095-1111	4.1	60
38	Common Brain Mechanisms of Chronic Pain and Addiction. <i>Neuron</i> , <b>2016</b> , 89, 11-36	13.9	173
37	Calcitonin Gene-Related Peptide Modulates Heat Nociception in the Human Brain - An fMRI Study in Healthy Volunteers. <i>PLoS ONE</i> , <b>2016</b> , 11, e0150334	3.7	25
36	Decreased Brain Neurokinin-1 Receptor Availability in Chronic Tennis Elbow. <i>PLoS ONE</i> , <b>2016</b> , 11, e0161563	3.7	1
35	Cortico-Cortical Connections of Primary Sensory Areas and Associated Symptoms in Migraine. <i>ENeuro</i> , <b>2016</b> , 3,	3.9	28
34	Probing Intrinsic Resting-State Networks in the Infant Rat Brain. <i>Frontiers in Behavioral Neuroscience</i> , <b>2016</b> , 10, 192	3.5	12
33	Random Forest Segregation of Drug Responses May Define Regions of Biological Significance. <i>Frontiers in Computational Neuroscience</i> , <b>2016</b> , 10, 21	3.5	2

32	Increased Functional Activation of Limbic Brain Regions during Negative Emotional Processing in Migraine. <i>Frontiers in Human Neuroscience</i> , <b>2016</b> , 10, 366	3.3	34
31	Brain Changes in Responders vs. Non-Responders in Chronic Migraine: Markers of Disease Reversal. <i>Frontiers in Human Neuroscience</i> , <b>2016</b> , 10, 497	3.3	34
30	Abdominal Pain, the Adolescent and Altered Brain Structure and Function. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156545	5.7	36
29	Oculofacial Pain: Corneal Nerve Damage Leading to Pain Beyond the Eye <b>2016</b> , 57, 5285-5287		25
28	Migraine photophobia originating in cone-driven retinal pathways. <i>Brain</i> , <b>2016</b> , 139, 1971-86	11.2	83
27	Increased Amplitude of Thalamocortical Low-Frequency Oscillations in Patients with Migraine. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 8026-36	6.6	59
26	Anatomical guidance for functional near-infrared spectroscopy: AtlasViewer tutorial. <i>Neurophotonics</i> , <b>2015</b> , 2, 020801	3.9	171
25	Migraine: multiple processes, complex pathophysiology. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 6619-29	6.6	382
24	Specificity of hemodynamic brain responses to painful stimuli: a functional near-infrared spectroscopy study. <i>Scientific Reports</i> , <b>2015</b> , 5, 9469	4.9	71
23	Autologous Serum Tears for Treatment of Photoallodynia in Patients with Corneal Neuropathy: Efficacy and Evaluation with In Vivo Confocal Microscopy. <i>Ocular Surface</i> , <b>2015</b> , 13, 250-62	6.5	68
22	Pain and spinal cord imaging measures in children with demyelinating disease. <i>NeuroImage: Clinical</i> , <b>2015</b> , 9, 338-47	5.3	4
21	Short separation regression improves statistical significance and better localizes the hemodynamic response obtained by near-infrared spectroscopy for tasks with differing autonomic responses. <i>Neurophotonics</i> , <b>2015</b> , 2, 035005	3.9	57
20	Taking the headache out of migraine. <i>Neurology: Clinical Practice</i> , <b>2015</b> , 5, 317-325	1.7	6
19	Test-retest reliability of evoked heat stimulation BOLD fMRI. <i>Journal of Neuroscience Methods</i> , <b>2015</b> , 253, 38-46	3	23
18	Primary Somatosensory Cortices Contain Altered Patterns of Regional Cerebral Blood Flow in the Interictal Phase of Migraine. <i>PLoS ONE</i> , <b>2015</b> , 10, e0137971	3.7	34
17	A new electronic diary tool for mapping and tracking spatial and temporal head pain patterns in migraine. <i>Cephalalgia</i> , <b>2015</b> , 35, 417-25	6.1	13
16	Fear and Reward Circuit Alterations in Pediatric CRPS. <i>Frontiers in Human Neuroscience</i> , <b>2015</b> , 9, 703	3.3	18
15	Psychological processing in chronic pain: a neural systems approach. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2014</b> , 39, 61-78	9	217

14	Harnessing the placebo effect in pediatric migraine clinic. <i>Journal of Pediatrics</i> , <b>2014</b> , 165, 659-65	3.6	44
13	Altered hypothalamic functional connectivity with autonomic circuits and the locus coeruleus in migraine. <i>PLoS ONE</i> , <b>2014</b> , 9, e95508	3.7	87
12	Neurochemical pathways that converge on thalamic trigeminovascular neurons: potential substrate for modulation of migraine by sleep, food intake, stress and anxiety. <i>PLoS ONE</i> , <b>2014</b> , 9, e103929	3.7	61
11	Migraine Mistakes: Error Awareness. <i>Neuroscientist</i> , <b>2014</b> , 20, 291-304	7.6	12
10	Intrinsic brain networks normalize with treatment in pediatric complex regional pain syndrome. <i>NeuroImage: Clinical</i> , <b>2014</b> , 6, 347-69	5.3	55
9	Lost but making progress--Where will new analgesic drugs come from?. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 249sr3	17.5	69
8	Nocebo effect in randomized clinical trials of antidepressants in children and adolescents: systematic review and meta-analysis. <i>Frontiers in Behavioral Neuroscience</i> , <b>2014</b> , 8, 375	3.5	20
7	Losses and gains: chronic pain and altered brain morphology. <i>Expert Review of Neurotherapeutics</i> , <b>2013</b> , 13, 1221-34	4.3	34
6	Surgically induced neuropathic pain: understanding the perioperative process. <i>Annals of Surgery</i> , <b>2013</b> , 257, 403-12	7.8	93
5	Concurrent functional and structural cortical alterations in migraine. <i>Cephalalgia</i> , <b>2012</b> , 32, 607-20	6.1	139
4	Chronic (neuropathic) corneal pain and blepharospasm: five case reports. <i>Pain</i> , <b>2011</b> , 152, 2427-2431	8	24
3	Anesthesia and perioperative stress: consequences on neural networks and postoperative behaviors. <i>Progress in Neurobiology</i> , <b>2010</b> , 92, 601-12	10.9	42
2	The pain imaging revolution: advancing pain into the 21st century. <i>Neuroscientist</i> , <b>2010</b> , 16, 171-85	7.6	57
1	Somatotopic activation in the human trigeminal pain pathway. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 8183-93	8.6	179