David Borsook

List of Publications by Year in descending order

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104 papers	5,355 citations	94269 37 h-index	91712 69 g-index
107 all docs	107 docs citations	107 times ranked	6392 citing authors

#	Article	IF	Citations
1	Migraine: Multiple Processes, Complex Pathophysiology. Journal of Neuroscience, 2015, 35, 6619-6629.	1.7	553
2	Psychological processing in chronic pain: A neural systems approach. Neuroscience and Biobehavioral Reviews, 2014, 39, 61-78.	2.9	281
3	Anatomical guidance for functional near-infrared spectroscopy: AtlasViewer tutorial. Neurophotonics, 2015, 2, 020801.	1.7	269
4	Common Brain Mechanisms of Chronic Pain and Addiction. Neuron, 2016, 89, 11-36.	3.8	242
5	Somatotopic Activation in the Human Trigeminal Pain Pathway. Journal of Neuroscience, 2002, 22, 8183-8192.	1.7	213
6	Concurrent functional and structural cortical alterations in migraine. Cephalalgia, 2012, 32, 607-620.	1.8	179
7	When pain gets stuck: the evolution of pain chronification and treatment resistance. Pain, 2018, 159, 2421-2436.	2.0	152
8	Ocular neuropathic pain. British Journal of Ophthalmology, 2016, 100, 128-134.	2.1	140
9	Mayer waves reduce the accuracy of estimated hemodynamic response functions in functional near-infrared spectroscopy. Biomedical Optics Express, 2016, 7, 3078.	1.5	133
10	Migraine photophobia originating in cone-driven retinal pathways. Brain, 2016, 139, 1971-1986.	3.7	131
11	Surgically Induced Neuropathic Pain. Annals of Surgery, 2013, 257, 403-412.	2.1	121
12	Specificity of Hemodynamic Brain Responses to Painful Stimuli: A functional near-infrared spectroscopy study. Scientific Reports, 2015, 5, 9469.	1.6	112
13	Altered Hypothalamic Functional Connectivity with Autonomic Circuits and the Locus Coeruleus in Migraine. PLoS ONE, 2014, 9, e95508.	1.1	110
14	The Insula. Neuroscientist, 2016, 22, 632-652.	2.6	110
15	Autologous Serum Tears for Treatment of Photoallodynia in Patients with Corneal Neuropathy: Efficacy and Evaluation with InÂVivo Confocal Microscopy. Ocular Surface, 2015, 13, 250-262.	2.2	103
16	Lost but making progressâ€"Where will new analgesic drugs come from?. Science Translational Medicine, 2014, 6, 249sr3.	5.8	102
17	Brodmann area 10: Collating, integrating and high level processing of nociception and pain. Progress in Neurobiology, 2018, 161, 1-22.	2.8	92
18	Short separation regression improves statistical significance and better localizes the hemodynamic response obtained by near-infrared spectroscopy for tasks with differing autonomic responses. Neurophotonics, 2015, 2, 035005.	1.7	91

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19	Role of brain imaging in disorders of brainâ€“gut interaction: a Rome Working Team Report. Gut, 2019, 68, 1701-1715.	6.1	91
20	Rapid treatment-induced brain changes in pediatric CRPS. Brain Structure and Function, 2016, 221, 1095-1111.	1.2	88
21	Increased Amplitude of Thalamocortical Low-Frequency Oscillations in Patients with Migraine. Journal of Neuroscience, 2016, 36, 8026-8036.	1.7	79
22	Intrinsic brain networks normalize with treatment in pediatric complex regional pain syndrome. NeuroImage: Clinical, 2014, 6, 347-369.	1.4	76
23	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.	1.1	75
24	The Pain Imaging Revolution: Advancing Pain Into the 21st Century. Neuroscientist, 2010, 16, 171-185.	2.6	73
25	Children With Chronic Pain: Response Trajectories After Intensive Pain Rehabilitation Treatment. Journal of Pain, 2018, 19, 207-218.	0.7	62
26	Brain changes after spinal cord injury, a quantitative meta-analysis and review. Neuroscience and Biobehavioral Reviews, 2018, 90, 272-293.	2.9	57
27	Harnessing the Placebo Effect in Pediatric Migraine Clinic. Journal of Pediatrics, 2014, 165, 659-665.	0.9	54
28	Threat Response System: Parallel Brain Processes in Pain vis-Ã-vis Fear and Anxiety. Frontiers in Psychiatry, 2018, 9, 29.	1.3	54
29	Abdominal Pain, the Adolescent and Altered Brain Structure and Function. PLoS ONE, 2016, 11, e0156545.	1.1	50
30	Neuropeptides and Neurotransmitters That Modulate Thalamoâ€Cortical Pathways Relevant to Migraine Headache. Headache, 2017, 57, 97-111.	1.8	50
31	Anesthesia and perioperative stress: Consequences on neural networks and postoperative behaviors. Progress in Neurobiology, 2010, 92, 601-612.	2.8	49
32	Increased Functional Activation of Limbic Brain Regions during Negative Emotional Processing in Migraine. Frontiers in Human Neuroscience, 2016, 10, 366.	1.0	48
33	Brain Changes in Responders vs. Non-Responders in Chronic Migraine: Markers of Disease Reversal. Frontiers in Human Neuroscience, 2016, 10, 497.	1.0	47
34	Secondary effects on brain physiology caused by focused ultrasound-mediated disruption of the bloodâ€“brain barrier. Journal of Controlled Release, 2020, 324, 450-459.	4.8	45
35	Losses and gains: chronic pain and altered brain morphology. Expert Review of Neurotherapeutics, 2013, 13, 1221-1234.	1.4	44
36	Anesthesia, brain changes, and behavior: Insights from neural systems biology. Progress in Neurobiology, 2017, 153, 121-160.	2.8	44

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37	Primary Somatosensory Cortices Contain Altered Patterns of Regional Cerebral Blood Flow in the Interictal Phase of Migraine. PLoS ONE, 2015, 10, e0137971.	1.1	42
38	Identifying Rodent Resting-State Brain Networks with Independent Component Analysis. Frontiers in Neuroscience, 2017, 11, 685.	1.4	39
39	Reward and aversion processing in patients with post-traumatic stress disorder: functional neuroimaging with visual and thermal stimuli. Translational Psychiatry, 2018, 8, 240.	2.4	39
40	Corticoâ€“Cortical Connections of Primary Sensory Areas and Associated Symptoms in Migraine. ENeuro, 2016, 3, ENEURO.0163-16.2016.	0.9	37
41	Migrainomics â€” identifying brain and genetic markers of migraine. Nature Reviews Neurology, 2017, 13, 725-741.	4.9	37
42	Responsivity of Periaqueductal Gray Connectivity Is Related to Headache Frequency in Episodic Migraine. Frontiers in Neurology, 2018, 9, 61.	1.1	35
43	Endometriosis and pain in the adolescent- striking early to limit suffering: A narrative review. Neuroscience and Biobehavioral Reviews, 2020, 108, 866-876.	2.9	35
44	NIRS measures in pain and analgesia: Fundamentals, features, and function. Neuroscience and Biobehavioral Reviews, 2021, 120, 335-353.	2.9	35
45	The failing cascade: Comorbid post traumatic stress- and opioid use disorders. Neuroscience and Biobehavioral Reviews, 2019, 103, 374-383.	2.9	34
46	Brain network alterations in the inflammatory soup animal model of migraine. Brain Research, 2017, 1660, 36-46.	1.1	33
47	Oculofacial Pain: Corneal Nerve Damage Leading to Pain Beyond the Eye. , 2016, 57, 5285.		32
48	Implications of the putamen in pain and motor deficits in complex regional pain syndrome. Pain, 2020, 161, 595-608.	2.0	32
49	Chronic (neuropathic) corneal pain and blepharospasm: Five case reports. Pain, 2011, 152, 2427-2431.	2.0	31
50	Parental Attitudes About Placebo Use in Children. Journal of Pediatrics, 2017, 181, 272-278.e10.	0.9	31
51	Resting-State Functional Connectivity in the Infant Brain: Methods, Pitfalls, and Potentiality. Frontiers in Pediatrics, 2017, 5, 159.	0.9	31
52	Focused ultrasound induced opening of the blood-brain barrier disrupts inter-hemispheric resting state functional connectivity in the rat brain. NeuroImage, 2018, 178, 414-422.	2.1	31
53	Modulation of brain function by targeted delivery of GABA through the disrupted blood-brain barrier. NeuroImage, 2019, 189, 267-275.	2.1	31
54	In child and adult migraineurs the somatosensory cortex stands out â€¦ again: An arterial spin labeling investigation. Human Brain Mapping, 2017, 38, 4078-4087.	1.9	29

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55	Calcitonin Gene-Related Peptide Modulates Heat Nociception in the Human Brain - An fMRI Study in Healthy Volunteers. PLoS ONE, 2016, 11, e0150334.	1.1	29
56	Testâ€“retest reliability of evoked heat stimulation BOLD fMRI. Journal of Neuroscience Methods, 2015, 253, 38-46.	1.3	26
57	Probing Intrinsic Resting-State Networks in the Infant Rat Brain. Frontiers in Behavioral Neuroscience, 2016, 10, 192.	1.0	24
58	A critical evaluation of validity and utility of translational imaging in pain and analgesia: Utilizing functional imaging to enhance the process. Neuroscience and Biobehavioral Reviews, 2018, 84, 407-423.	2.9	22
59	Nocebo Effect in Randomized Clinical Trials of Antidepressants in Children and Adolescents: Systematic Review and Meta-Analysis. Frontiers in Behavioral Neuroscience, 2014, 8, 375.	1.0	21
60	Fear and Reward Circuit Alterations in Pediatric CRPS. Frontiers in Human Neuroscience, 2015, 9, 703.	1.0	21
61	Metabolic and Addiction Indices in Patients on Opioid Agonist Medication-Assisted Treatment: A Comparison of Buprenorphine and Methadone. Scientific Reports, 2020, 10, 5617.	1.6	21
62	The neurovascular response is attenuated by focused ultrasound-mediated disruption of the blood-brain barrier. NeuroImage, 2019, 201, 116010.	2.1	20
63	Circles of engagement: Childhood pain and parent brain. Neuroscience and Biobehavioral Reviews, 2016, 68, 537-546.	2.9	19
64	Age- and sex-related differences in the presentation of paediatric migraine: A retrospective cohort study. Cephalalgia, 2018, 38, 1107-1118.	1.8	19
65	Brain signatures of threatâ€“safety discrimination in adolescent chronic pain. Pain, 2020, 161, 630-640.	2.0	18
66	Migraine Mistakes. Neuroscientist, 2014, 20, 291-304.	2.6	16
67	Molecular and functional PET-fMRI measures of placebo analgesia in episodic migraine: Preliminary findings. NeuroImage: Clinical, 2018, 17, 680-690.	1.4	16
68	Shifting brain circuits in pain chronicity. Human Brain Mapping, 2019, 40, 4381-4396.	1.9	16
69	A new electronic diary tool for mapping and tracking spatial and temporal head pain patterns in migraine. Cephalalgia, 2015, 35, 417-425.	1.8	15
70	Beating pain with psychedelics: Matter over mind?. Neuroscience and Biobehavioral Reviews, 2022, 134, 104482.	2.9	14
71	Opioidergic tone and pain susceptibility: interactions between reward systems and opioid receptors. Pain, 2017, 158, 185-186.	2.0	13
72	Microstructural White Matter Abnormalities in the Dorsal Cingulum of Adolescents with IBS. ENeuro, 2018, 5, ENEURO.0354-17.2018.	0.9	13

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73	Migraine in the Young Brain: Adolescents vs. Young Adults. Frontiers in Human Neuroscience, 2019, 13, 87.	1.0	13
74	C-Fiber Assays in the Cornea vs. Skin. Brain Sciences, 2019, 9, 320.	1.1	13
75	Clinical features and sex differences in pediatric post-traumatic headache: A retrospective chart review at a Boston area concussion clinic. Cephalalgia, 2020, 40, 701-711.	1.8	12
76	Targeted manipulation of pain neural networks: The potential of focused ultrasound for treatment of chronic pain. Neuroscience and Biobehavioral Reviews, 2020, 115, 238-250.	2.9	10
77	Stressful experiences in youth: â€œSet-upâ€•for diminished resilience to chronic pain. Brain, Behavior, & Immunity - Health, 2020, 5, 100095.	1.3	10
78	Modulation of brain networks by sumatriptan-naproxen in the inflammatory soup migraine model. Pain, 2019, 160, 2161-2171.	2.0	9
79	Pain and spinal cord imaging measures in children with demyelinating disease. NeuroImage: Clinical, 2015, 9, 338-347.	1.4	8
80	Taking the headache out of migraine. Neurology: Clinical Practice, 2015, 5, 317-325.	0.8	8
81	Multi-task multiple kernel machines for personalized pain recognition from functional near-infrared spectroscopy brain signals. , 2018, , .		8
82	Scale-free amplitude modulation of low-frequency fluctuations in episodic migraine. Pain, 2019, 160, 2298-2304.	2.0	8
83	Pain mechanisms and management in corneal cross-linking: a review. BMJ Open Ophthalmology, 2021, 6, e000878.	0.8	8
84	Blue light activates pulvinar nuclei in longstanding idiopathic photophobia: A case report. NeuroImage: Clinical, 2019, 24, 102096.	1.4	7
85	Stress, hypoglycemia, and the autonomic nervous system. Autonomic Neuroscience: Basic and Clinical, 2022, 240, 102983.	1.4	7
86	Amygdala functional connectivity mediates the association between catastrophizing and threat-safety learning in youth with chronic pain. Pain, 2021, Publish Ahead of Print, 719-728.	2.0	6
87	The cornucopia of central disinhibition pain â€“ An evaluation of past and novel concepts. Neurobiology of Disease, 2020, 145, 105041.	2.1	5
88	Mechanisms Underlying Unconscious Processing and Their Alterations in Post-traumatic Stress Disorder: Neuroimaging of Zero Monetary Outcomes Contextually Framed as â€œNo Lossesâ€•vs. â€œNo Gainsâ€• Frontiers in Neuroscience, 2020, 14, 604867.	1.4	5
89	Random Forest Segregation of Drug Responses May Define Regions of Biological Significance. Frontiers in Computational Neuroscience, 2016, 10, 21.	1.2	4
90	Left to themselves: Time to target chronic pain in childhood rare diseases. Neuroscience and Biobehavioral Reviews, 2021, 126, 276-288.	2.9	4

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91	DTI and MTR Measures of Nerve Fiber Integrity in Pediatric Patients With Ankle Injury. Frontiers in Pediatrics, 2021, 9, 656843.	0.9	4
92	Rhythmic Change of Cortical Hemodynamic Signals Associated with Ongoing Nociception in Awake and Anesthetized Individuals: An Exploratory Functional Near Infrared Spectroscopy Study. Anesthesiology, 2021, 135, 877-892.	1.3	4
93	Biological laterality and peripheral nerve DTI metrics. PLoS ONE, 2021, 16, e0260256.	1.1	4
94	The solitary nucleus connectivity to key autonomic regions in humans. European Journal of Neuroscience, 2022, 56, 3938-3966.	1.2	4
95	Enhancing Choice and Outcomes for Therapeutic Trials in Chronic Pain: N-of-1 + Imaging (+ i). Trends in Pharmacological Sciences, 2020, 41, 85-98.	4.0	3
96	The omnipresence of autonomic modulation in health and disease. Progress in Neurobiology, 2022, 210, 102218.	2.8	3
97	Visuospatial and Sensory Integration Tasks in Patients With Schizophrenia or Schizoaffective Disorder: Relationship to Body Mass Index and Smoking. Frontiers in Psychiatry, 2018, 9, 473.	1.3	2
98	Contribution of Loss of Large Fiber Function to Pain in 2 Samples of Oncology Patients. Clinical Journal of Pain, 2019, 35, 37-42.	0.8	2
99	Commentary: Novel Use of Offset Analgesia to Assess Adolescents and Adults with Treatment Resistant Endometriosis-Associated Pain . Journal of Pain Research, 2020, Volume 13, 2775-2782.	0.8	2
100	Decreased Brain Neurokinin-1 Receptor Availability in Chronic Tennis Elbow. PLoS ONE, 2016, 11, e0161563.	1.1	2
101	Brain-based measures of nociception during general anesthesia with remifentanil: A randomized controlled trial. PLoS Medicine, 2022, 19, e1003965.	3.9	2
102	Pain stickiness in pediatric complex regional pain syndrome: A role for the nucleus accumbens. Neurobiology of Pain (Cambridge, Mass), 2021, 9, 100062.	1.0	1
103	<scp>H</scp>eadache <scp>P</scp>rofessional <scp>S</scp>ocieties: <scp>E</scp>thical <scp>C</scp>hallenges and <scp>S</scp>uggested <scp>S</scp>olutions. Headache, 2017, 57, 1273-1283.	1.8	0
104	Isolating Brain Regions Implicated in the Affective Components of Neuropathic Pain. Canadian Journal of Pain, 0, , .	0.6	0