

Lino Becerra

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

3,241
citations

186265
28
h-index

155660
55
g-index

58
all docs

58
docs citations

58
times ranked

3980
citing authors

#	ARTICLE	IF	CITATIONS
1	Thalamic sensitization transforms localized pain into widespread allodynia. <i>Annals of Neurology</i> , 2010, 68, 81-91.	5.3	329
2	Anatomical guidance for functional near-infrared spectroscopy: AtlasViewer tutorial. <i>Neurophotonics</i> , 2015, 2, 020801.	3.3	269
3	A Key Role of the Basal Ganglia in Pain and Analgesia - Insights Gained through Human Functional Imaging. <i>Molecular Pain</i> , 2010, 6, 1744-8069-6-27.	2.1	256
4	Trigeminal Neuropathic Pain Alters Responses in CNS Circuits to Mechanical (Brush) and Thermal (Cold and Heat) Stimuli. <i>Journal of Neuroscience</i> , 2006, 26, 10646-10657.	3.6	172
5	Mayer waves reduce the accuracy of estimated hemodynamic response functions in functional near-infrared spectroscopy. <i>Biomedical Optics Express</i> , 2016, 7, 3078.	2.9	133
6	Functional Magnetic Resonance Imaging Measures of the Effects of Morphine on Central Nervous System Circuitry in Opioid-Naive Healthy Volunteers. <i>Anesthesia and Analgesia</i> , 2006, 103, 208-216.	2.2	128
7	Signal valence in the nucleus accumbens to pain onset and offset. <i>European Journal of Pain</i> , 2008, 12, 866-869.	2.8	114
8	Specificity of Hemodynamic Brain Responses to Painful Stimuli: A functional near-infrared spectroscopy study. <i>Scientific Reports</i> , 2015, 5, 9469.	3.3	112
9	Altered Hypothalamic Functional Connectivity with Autonomic Circuits and the Locus Coeruleus in Migraine. <i>PLoS ONE</i> , 2014, 9, e95508.	2.5	110
10	The Insula. <i>Neuroscientist</i> , 2016, 22, 632-652.	3.5	110
11	Brodmann area 10: Collating, integrating and high level processing of nociception and pain. <i>Progress in Neurobiology</i> , 2018, 161, 1-22.	5.7	92
12	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> , 2015, 2, 035005.	3.3	91
13	Rapid treatment-induced brain changes in pediatric CRPS. <i>Brain Structure and Function</i> , 2016, 221, 1095-1111.	2.3	88
14	Increased Amplitude of Thalamocortical Low-Frequency Oscillations in Patients with Migraine. <i>Journal of Neuroscience</i> , 2016, 36, 8026-8036.	3.6	79
15	Intrinsic brain networks normalize with treatment in pediatric complex regional pain syndrome. <i>NeuroImage: Clinical</i> , 2014, 6, 347-369.	2.7	76
16	Brain changes after spinal cord injury, a quantitative meta-analysis and review. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 90, 272-293.	6.1	57
17	Segmentally arranged somatotopy within the face representation of human primary somatosensory cortex. <i>Human Brain Mapping</i> , 2009, 30, 757-765.	3.6	54
18	Abdominal Pain, the Adolescent and Altered Brain Structure and Function. <i>PLoS ONE</i> , 2016, 11, e0156545.	2.5	50

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19	Diffuse Optical Tomography Activation in the Somatosensory Cortex: Specific Activation by Painful vs. Non-Painful Thermal Stimuli. PLoS ONE, 2009, 4, e8016.	2.5	48
20	Increased Functional Activation of Limbic Brain Regions during Negative Emotional Processing in Migraine. Frontiers in Human Neuroscience, 2016, 10, 366.	2.0	48
21	Primary Somatosensory Cortices Contain Altered Patterns of Regional Cerebral Blood Flow in the Interictal Phase of Migraine. PLoS ONE, 2015, 10, e0137971.	2.5	42
22	Frontal Lobe Hemodynamic Responses to Painful Stimulation: A Potential Brain Marker of Nociception. PLoS ONE, 2016, 11, e0165226.	2.5	41
23	Parallel Buprenorphine pHMRI Responses in Conscious Rodents and Healthy Human Subjects. Journal of Pharmacology and Experimental Therapeutics, 2013, 345, 41-51.	2.5	40
24	Identifying Rodent Resting-State Brain Networks with Independent Component Analysis. Frontiers in Neuroscience, 2017, 11, 685.	2.8	39
25	Reward and aversion processing in patients with post-traumatic stress disorder: functional neuroimaging with visual and thermal stimuli. Translational Psychiatry, 2018, 8, 240.	4.8	39
26	Cortico-cortical Connections of Primary Sensory Areas and Associated Symptoms in Migraine. ENeuro, 2016, 3, ENEURO.0163-16.2016.	1.9	37
27	Responsivity of Periaqueductal Gray Connectivity Is Related to Headache Frequency in Episodic Migraine. Frontiers in Neurology, 2018, 9, 61.	2.4	35
28	Brain network alterations in the inflammatory soup animal model of migraine. Brain Research, 2017, 1660, 36-46.	2.2	33
29	Implications of the putamen in pain and motor deficits in complex regional pain syndrome. Pain, 2020, 161, 595-608.	4.2	32
30	Capturing Pain in the Cortex during General Anesthesia: Near Infrared Spectroscopy Measures in Patients Undergoing Catheter Ablation of Arrhythmias. PLoS ONE, 2016, 11, e0158975.	2.5	31
31	Resting-State Functional Connectivity in the Infant Brain: Methods, Pitfalls, and Potentiality. Frontiers in Pediatrics, 2017, 5, 159.	1.9	31
32	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.	4.2	31
33	Modulation of brain function by targeted delivery of GABA through the disrupted blood-brain barrier. NeuroImage, 2019, 189, 267-275.	4.2	31
34	In child and adult migraineurs the somatosensory cortex stands out again: An arterial spin labeling investigation. Human Brain Mapping, 2017, 38, 4078-4087.	3.6	29
35	Ictal and interictal brain activation in episodic migraine: Neural basis for extent of allodynia. PLoS ONE, 2021, 16, e0244320.	2.5	29
36	Calcitonin Gene-Related Peptide Modulates Heat Nociception in the Human Brain - An fMRI Study in Healthy Volunteers. PLoS ONE, 2016, 11, e0150334.	2.5	29

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37	Brain measures of nociception using near-infrared spectroscopy in patients undergoing routine screening colonoscopy. <i>Pain</i> , 2016, 157, 840-848.	4.2	27
38	Testâ€retest reliability of evoked heat stimulation BOLD fMRI. <i>Journal of Neuroscience Methods</i> , 2015, 253, 38-46.	2.5	26
39	Morphine Attenuates fNIRS Signal Associated With Painful Stimuli in the Medial Frontopolar Cortex (medial BA 10). <i>Frontiers in Human Neuroscience</i> , 2018, 12, 394.	2.0	24
40	Using prerecorded hemodynamic response functions in detecting prefrontal pain response: a functional near-infrared spectroscopy study. <i>Neurophotonics</i> , 2017, 5, 1.	3.3	23
41	Nocebo Effect in Randomized Clinical Trials of Antidepressants in Children and Adolescents: Systematic Review and Meta-Analysis. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 375.	2.0	21
42	Fear and Reward Circuit Alterations in Pediatric CRPS. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 703.	2.0	21
43	Migraine Mistakes. <i>Neuroscientist</i> , 2014, 20, 291-304.	3.5	16
44	Molecular and functional PET-fMRI measures of placebo analgesia in episodic migraine: Preliminary findings. <i>NeuroImage: Clinical</i> , 2018, 17, 680-690.	2.7	16
45	A new electronic diary tool for mapping and tracking spatial and temporal head pain patterns in migraine. <i>Cephalalgia</i> , 2015, 35, 417-425.	3.9	15
46	CNS response to a thermal stressor in human volunteers and rats may predict the clinical utility of analgesics. <i>Drug Development Research</i> , 2007, 68, 23-41.	2.9	14
47	Microstructural White Matter Abnormalities in the Dorsal Cingulum of Adolescents with IBS. <i>ENeuro</i> , 2018, 5, ENEURO.0354-17.2018.	1.9	13
48	Migraine in the Young Brain: Adolescents vs. Young Adults. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 87.	2.0	13
49	Modulation of brain networks by sumatriptan-naproxen in the inflammatory soup migraine model. <i>Pain</i> , 2019, 160, 2161-2171.	4.2	9
50	Pain and spinal cord imaging measures in children with demyelinating disease. <i>NeuroImage: Clinical</i> , 2015, 9, 338-347.	2.7	8
51	Scale-free amplitude modulation of low-frequency fluctuations in episodic migraine. <i>Pain</i> , 2019, 160, 2298-2304.	4.2	8
52	Modulation of Resting State Functional Connectivity of the Brain by Naloxone Infusion. <i>Brain Imaging and Behavior</i> , 2008, 2, 11-20.	2.1	5
53	The association between areas of secondary hyperalgesia and volumes of the caudate nuclei and other pain relevant brain structuresâ€A 3-tesla MRI study of healthy men. <i>PLoS ONE</i> , 2018, 13, e0201642.	2.5	5
54	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> , 2021, 135, 877-892.	2.5	4

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55	Brain resting-state connectivity in the development of secondary hyperalgesia in healthy men. Brain Structure and Function, 2019, 224, 1119-1139.	2.3	3
56	Is the Volume of the Caudate Nuclei Associated With Area of Secondary Hyperalgesia? “ Protocol for a 3-Tesla MRI Study of Healthy Volunteers. JMIR Research Protocols, 2016, 5, e117.	1.0	3
57	Brain-based measures of nociception during general anesthesia with remifentanyl: A randomized controlled trial. PLoS Medicine, 2022, 19, e1003965.	8.4	2
58	The effect of cerebellar tumor resection on pain perception in pediatric patients.. Journal of Clinical Oncology, 2017, 35, 126-126.	1.6	0