Brian N Lundstrom

List of Publications by Year
in descending order

52 papers	2,783 citations	331670 21 h-index	197818 49 g-index
59 all docs	59 docs citations	59 times ranked	3082 citing authors

#	Article	IF	Citations
1	Fractional differentiation by neocortical pyramidal neurons. Nature Neuroscience, 2008, 11, 1335-1342.	14.8	556
2	Sensory adaptation. Current Opinion in Neurobiology, 2007, 17, 423-429.	4.2	461
3	The role of precuneus and left inferior frontal cortex during source memory episodic retrieval. NeuroImage, 2005, 27, 824-834.	4.2	322
4	Nine-year prospective efficacy and safety of brain-responsive neurostimulation for focal epilepsy. Neurology, 2020, 95, e1244-e1256.	1.1	255
5	iEEG-BIDS, extending the Brain Imaging Data Structure specification to human intracranial electrophysiology. Scientific Data, 2019, 6, 102.	5.3	96
6	A Review of Neurostimulation for Epilepsy in Pediatrics. Brain Sciences, 2019, 9, 283.	2.3	80
7	Multiple Timescale Encoding of Slowly Varying Whisker Stimulus Envelope in Cortical and Thalamic NeuronsIn Vivo. Journal of Neuroscience, 2010, 30, 5071-5077.	3.6	71
8	The Impact of Input Fluctuations on the Frequency-Current Relationships of Layer 5 Pyramidal Neurons in the Rat Medial Prefrontal Cortex. Journal of Neuroscience, 2007, 27, 3274-3284.	3.6	65
9	Chronic Subthreshold Cortical Stimulation to Treat Focal Epilepsy. JAMA Neurology, 2016, 73, 1370.	9.0	64
10	Sensitivity of firing rate to input fluctuations depends on time scale separation between fast and slow variables in single neurons. Journal of Computational Neuroscience, 2009, 27, 277-290.	1.0	50
11	Decoding Stimulus Variance from a Distributional Neural Code of Interspike Intervals. Journal of Neuroscience, 2006, 26, 9030-9037.	3.6	43
12	Fast gray matter acquisition T1 inversion recovery MRI to delineate the mammillothalamic tract for preoperative direct targeting of the anterior nucleus of the thalamus for deep brain stimulation in epilepsy. Neurosurgical Focus, 2018, 45, E6.	2.3	42
13	Centromedian thalamic nucleus with or without anterior thalamic nucleus deep brain stimulation for epilepsy in children and adults: A retrospective case series. Seizure: the Journal of the British Epilepsy Association, 2021, 84, 101-107.	2.0	39
14	Chronic subthreshold cortical stimulation and stimulation-related EEG biomarkers for focal epilepsy. Brain Communications, 2019, 1, fcz010.	3.3	35
15	Two Computational Regimes of a Single-Compartment Neuron Separated by a Planar Boundary in Conductance Space. Neural Computation, 2008, 20, 1239-1260.	2.2	33
16	Thalamic deep brain stimulation modulates cycles of seizure risk in epilepsy. Scientific Reports, 2021, 11, 24250.	3.3	33
17	Probing circuit of Papez with stimulation of anterior nucleus of the thalamus and hippocampal evoked potentials. Epilepsy Research, 2020, 159, 106248.	1.6	32
18	Intrinsic Gain Modulation and Adaptive Neural Coding. PLoS Computational Biology, 2008, 4, e1000119.	3.2	31

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19	Anterior nucleus of the thalamus seizure detection in ambulatory humans. Epilepsia, 2021, 62, e158-e164.	5.1	31
20	Chronic subthreshold cortical stimulation: a therapeutic and potentially restorative therapy for focal epilepsy. Expert Review of Neurotherapeutics, 2017, 17, 661-666.	2.8	30
21	Practical considerations in epilepsy neurostimulation. Epilepsia, 2022, 63, 2445-2460.	5.1	29
22	Chronic subthreshold cortical stimulation for adult drug-resistant focal epilepsy: safety, feasibility, and technique. Journal of Neurosurgery, 2018, 129, 533-543.	1.6	27
23	Slowing less than 1â€‰Hz is decreased near the seizure onset zone. Scientific Reports, 2019, 9, 6218.	3.3	27
24	Targeting analysis of a novel parietal approach for deep brain stimulation of the anterior nucleus of the thalamus for epilepsy. Epilepsy Research, 2019, 153, 1-6.	1.6	27
25	Distributed brain co-processor for tracking spikes, seizures and behaviour during electrical brain stimulation. Brain Communications, 2022, 4, .	3.3	22
26	Anterior Nucleus of the Thalamus Deep Brain Stimulation with Concomitant Vagus Nerve Stimulation for Drug-Resistant Epilepsy. Neurosurgery, 2021, 89, 686-694.	1.1	20
27	Electroencephalogram (EEG) With or Without Transcranial Magnetic Stimulation (TMS) as Biomarkers for Post-stroke Recovery: A Narrative Review. Frontiers in Neurology, 2022, 13, 827866.	2.4	20
28	Impairment of Sharp-Wave Ripples in a Murine Model of Dravet Syndrome. Journal of Neuroscience, 2019, 39, 9251-9260.	3.6	18
29	Electrical brain stimulation and continuous behavioral state tracking in ambulatory humans. Journal of Neural Engineering, 2022, 19, 016019.	3.5	18
30	Safety and efficacy of responsive neurostimulation in the pediatric population: Evidence from institutional review and patient-level meta-analysis. Epilepsy and Behavior, 2022, 129, 108646.	1.7	17
31	Isolating the retrieval of imagined pictures during episodic memory: activation of the left precuneus and left prefrontal cortex. NeuroImage, 2003, 20, 1934-1934.	4.2	16
32	Comparing spiking and slow wave activity from invasive electroencephalography in patients with and without seizures. Clinical Neurophysiology, 2018, 129, 909-919.	1.5	16
33	Experience and consensus on stimulation of the anterior nucleus of thalamus for epilepsy. Epilepsia, 2021, 62, 2883-2898.	5.1	15
34	Invasive Electrophysiology for Circuit Discovery and Study of Comorbid Psychiatric Disorders in Patients With Epilepsy: Challenges, Opportunities, and Novel Technologies. Frontiers in Human Neuroscience, 2021, 15, 702605.	2.0	14
35	EEG source imaging concordance with intracranial EEG and epileptologist review in focal epilepsy. Brain Communications, 2021, 3, fcab278.	3.3	14
36	Low frequency novel interictal EEG biomarker for localizing seizures and predicting outcomes. Brain Communications, 2021, 3, fcab231.	3.3	12

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37	Centromedian Nucleus of the Thalamus Deep Brain Stimulation for Genetic Generalized Epilepsy: A Case Report and Review of Literature. Frontiers in Human Neuroscience, 2022, 16, .	2.0	12
38	Variability Between Direct and Indirect Targeting of the Anterior Nucleus of the Thalamus. World Neurosurgery, 2020, 139, e70-e77.	1.3	9
39	Pre-motor versus motor cerebral cortex neuromodulation for chronic neuropathic pain. Scientific Reports, 2021, 11, 12688.	3.3	9
40	Modeling multiple time scale firing rate adaptation in a neural network of local field potentials. Journal of Computational Neuroscience, 2015, 38, 189-202.	1.0	8
41	Two cases of beneficial side effects from chronic electrical stimulation for treatment of focal epilepsy. Brain Stimulation, 2019, 12, 1077-1079.	1.6	6
42	Chronic subdural cortical stimulation for phantom limb pain: report of a series of two cases. Acta Neurochirurgica, 2019, 161, 925-934.	1.7	6
43	Comparison of narcotic pain control between stereotactic electrocorticography and subdural grid implantation. Epilepsy and Behavior, 2020, 103, 106843.	1.7	6
44	Cortical and thalamic electrode implant followed by temporary continuous subthreshold stimulation yields long-term seizure freedom: A case report. Epilepsy and Behavior Reports, 2020, 14, 100390.	1.0	6
45	Neurophysiological effects of continuous cortical stimulation in epilepsy â€“ Spike and spontaneous ECoG activity. Clinical Neurophysiology, 2019, 130, 38-45.	1.5	5
46	Case Report: Prolonged Effects of Short-Term Transcranial Magnetic Stimulation on EEG Biomarkers, Spectral Power, and Seizure Frequency. Frontiers in Neuroscience, 0, 16, .	2.8	5
47	The Value of Patient Perspectives in an Ethical Analysis of Recruitment and Consent for Intracranial Electrophysiology Research. AJOB Neuroscience, 2021, 12, 75-77.	1.1	3
48	MEG and navigated TMS jointly enable spatially accurate application of TMS therapy at the epileptic focus in pharmacoresistant epilepsy. Brain Stimulation, 2019, 12, 1312-1314.	1.6	2
49	Minimally Invasive, Endoscopic-Assisted Device for Subdural Electrode Implantation in Epilepsy. Operative Neurosurgery, 2020, 18, 92-97.	0.8	2
50	Surgical approaches to refractory central lobule epilepsy: a systematic review on the role of resection, ablation, and stimulation in the contemporary era. Journal of Neurosurgery, 2022, 137, 735-746.	1.6	1
51	T148. Slow wave activity from bilateral subdural electrode contacts during awake, sleep, and postictal states. Clinical Neurophysiology, 2018, 129, e59.	1.5	0
52	Intracranial Stimulation and Epilepsy. , 2021, , 265-269.		0