

# Brian N Lundstrom

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Electrical brain stimulation and continuous behavioral state tracking in ambulatory humans. <i>Journal of Neural Engineering</i> , 2022, 19, 016019.	3.5	18
2	Surgical approaches to refractory central lobule epilepsy: a systematic review on the role of resection, ablation, and stimulation in the contemporary era. <i>Journal of Neurosurgery</i> , 2022, 137, 735-746.	1.6	1
3	Electroencephalogram (EEG) With or Without Transcranial Magnetic Stimulation (TMS) as Biomarkers for Post-stroke Recovery: A Narrative Review. <i>Frontiers in Neurology</i> , 2022, 13, 827866.	2.4	20
4	Safety and efficacy of responsive neurostimulation in the pediatric population: Evidence from institutional review and patient-level meta-analysis. <i>Epilepsy and Behavior</i> , 2022, 129, 108646.	1.7	17
5	Distributed brain co-processor for tracking spikes, seizures and behaviour during electrical brain stimulation. <i>Brain Communications</i> , 2022, 4, .	3.3	22
6	Centromedian Nucleus of the Thalamus Deep Brain Stimulation for Genetic Generalized Epilepsy: A Case Report and Review of Literature. <i>Frontiers in Human Neuroscience</i> , 2022, 16, .	2.0	12
7	Practical considerations in epilepsy neurostimulation. <i>Epilepsia</i> , 2022, 63, 2445-2460.	5.1	29
8	The Value of Patient Perspectives in an Ethical Analysis of Recruitment and Consent for Intracranial Electrophysiology Research. <i>AJOB Neuroscience</i> , 2021, 12, 75-77.	1.1	3
9	Pre-motor versus motor cerebral cortex neuromodulation for chronic neuropathic pain. <i>Scientific Reports</i> , 2021, 11, 12688.	3.3	9
10	Anterior Nucleus of the Thalamus Deep Brain Stimulation with Concomitant Vagus Nerve Stimulation for Drug-Resistant Epilepsy. <i>Neurosurgery</i> , 2021, 89, 686-694.	1.1	20
11	Invasive Electrophysiology for Circuit Discovery and Study of Comorbid Psychiatric Disorders in Patients With Epilepsy: Challenges, Opportunities, and Novel Technologies. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 702605.	2.0	14
12	Anterior nucleus of the thalamus seizure detection in ambulatory humans. <i>Epilepsia</i> , 2021, 62, e158-e164.	5.1	31
13	Centromedian thalamic nucleus with or without anterior thalamic nucleus deep brain stimulation for epilepsy in children and adults: A retrospective case series. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2021, 84, 101-107.	2.0	39
14	Low frequency novel interictal EEG biomarker for localizing seizures and predicting outcomes. <i>Brain Communications</i> , 2021, 3, fcab231.	3.3	12
15	Experience and consensus on stimulation of the anterior nucleus of thalamus for epilepsy. <i>Epilepsia</i> , 2021, 62, 2883-2898.	5.1	15
16	Intracranial Stimulation and Epilepsy. , 2021, , 265-269.		0
17	EEG source imaging concordance with intracranial EEG and epileptologist review in focal epilepsy. <i>Brain Communications</i> , 2021, 3, fcab278.	3.3	14
18	Thalamic deep brain stimulation modulates cycles of seizure risk in epilepsy. <i>Scientific Reports</i> , 2021, 11, 24250.	3.3	33

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19	Minimally Invasive, Endoscopic-Assisted Device for Subdural Electrode Implantation in Epilepsy. <i>Operative Neurosurgery</i> , 2020, 18, 92-97.	0.8	2
20	Comparison of narcotic pain control between stereotactic electrocorticography and subdural grid implantation. <i>Epilepsy and Behavior</i> , 2020, 103, 106843.	1.7	6
21	Probing circuit of Papez with stimulation of anterior nucleus of the thalamus and hippocampal evoked potentials. <i>Epilepsy Research</i> , 2020, 159, 106248.	1.6	32
22	Nine-year prospective efficacy and safety of brain-responsive neurostimulation for focal epilepsy. <i>Neurology</i> , 2020, 95, e1244-e1256.	1.1	255
23	Cortical and thalamic electrode implant followed by temporary continuous subthreshold stimulation yields long-term seizure freedom: A case report. <i>Epilepsy and Behavior Reports</i> , 2020, 14, 100390.	1.0	6
24	Variability Between Direct and Indirect Targeting of the Anterior Nucleus of the Thalamus. <i>World Neurosurgery</i> , 2020, 139, e70-e77.	1.3	9
25	MEG and navigated TMS jointly enable spatially accurate application of TMS therapy at the epileptic focus in pharmacoresistant epilepsy. <i>Brain Stimulation</i> , 2019, 12, 1312-1314.	1.6	2
26	iEEG-BIDS, extending the Brain Imaging Data Structure specification to human intracranial electrophysiology. <i>Scientific Data</i> , 2019, 6, 102.	5.3	96
27	Chronic subthreshold cortical stimulation and stimulation-related EEG biomarkers for focal epilepsy. <i>Brain Communications</i> , 2019, 1, fcz010.	3.3	35
28	A Review of Neurostimulation for Epilepsy in Pediatrics. <i>Brain Sciences</i> , 2019, 9, 283.	2.3	80
29	Impairment of Sharp-Wave Ripples in a Murine Model of Dravet Syndrome. <i>Journal of Neuroscience</i> , 2019, 39, 9251-9260.	3.6	18
30	Slowing less than 1%Hz is decreased near the seizure onset zone. <i>Scientific Reports</i> , 2019, 9, 6218.	3.3	27
31	Targeting analysis of a novel parietal approach for deep brain stimulation of the anterior nucleus of the thalamus for epilepsy. <i>Epilepsy Research</i> , 2019, 153, 1-6.	1.6	27
32	Two cases of beneficial side effects from chronic electrical stimulation for treatment of focal epilepsy. <i>Brain Stimulation</i> , 2019, 12, 1077-1079.	1.6	6
33	Chronic subdural cortical stimulation for phantom limb pain: report of a series of two cases. <i>Acta Neurochirurgica</i> , 2019, 161, 925-934.	1.7	6
34	Neurophysiological effects of continuous cortical stimulation in epilepsy – Spike and spontaneous ECoG activity. <i>Clinical Neurophysiology</i> , 2019, 130, 38-45.	1.5	5
35	Comparing spiking and slow wave activity from invasive electroencephalography in patients with and without seizures. <i>Clinical Neurophysiology</i> , 2018, 129, 909-919.	1.5	16
36	Chronic subthreshold cortical stimulation for adult drug-resistant focal epilepsy: safety, feasibility, and technique. <i>Journal of Neurosurgery</i> , 2018, 129, 533-543.	1.6	27

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37	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. <i>Neurosurgical Focus</i> , 2018, 45, E6.	2.3	42
38	T148. Slow wave activity from bilateral subdural electrode contacts during awake, sleep, and postictal states. <i>Clinical Neurophysiology</i> , 2018, 129, e59.	1.5	0
39	Chronic subthreshold cortical stimulation: a therapeutic and potentially restorative therapy for focal epilepsy. <i>Expert Review of Neurotherapeutics</i> , 2017, 17, 661-666.	2.8	30
40	Chronic Subthreshold Cortical Stimulation to Treat Focal Epilepsy. <i>JAMA Neurology</i> , 2016, 73, 1370.	9.0	64
41	Modeling multiple time scale firing rate adaptation in a neural network of local field potentials. <i>Journal of Computational Neuroscience</i> , 2015, 38, 189-202.	1.0	8
42	Multiple Timescale Encoding of Slowly Varying Whisker Stimulus Envelope in Cortical and Thalamic Neurons <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2010, 30, 5071-5077.	3.6	71
43	Sensitivity of firing rate to input fluctuations depends on time scale separation between fast and slow variables in single neurons. <i>Journal of Computational Neuroscience</i> , 2009, 27, 277-290.	1.0	50
44	Fractional differentiation by neocortical pyramidal neurons. <i>Nature Neuroscience</i> , 2008, 11, 1335-1342.	14.8	556
45	Two Computational Regimes of a Single-Compartment Neuron Separated by a Planar Boundary in Conductance Space. <i>Neural Computation</i> , 2008, 20, 1239-1260.	2.2	33
46	Intrinsic Gain Modulation and Adaptive Neural Coding. <i>PLoS Computational Biology</i> , 2008, 4, e1000119.	3.2	31
47	The Impact of Input Fluctuations on the Frequency-Current Relationships of Layer 5 Pyramidal Neurons in the Rat Medial Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 3274-3284.	3.6	65
48	Sensory adaptation. <i>Current Opinion in Neurobiology</i> , 2007, 17, 423-429.	4.2	461
49	Decoding Stimulus Variance from a Distributional Neural Code of Interspike Intervals. <i>Journal of Neuroscience</i> , 2006, 26, 9030-9037.	3.6	43
50	The role of precuneus and left inferior frontal cortex during source memory episodic retrieval. <i>NeuroImage</i> , 2005, 27, 824-834.	4.2	322
51	Isolating the retrieval of imagined pictures during episodic memory: activation of the left precuneus and left prefrontal cortex. <i>NeuroImage</i> , 2003, 20, 1934-1934.	4.2	16
52	Case Report: Prolonged Effects of Short-Term Transcranial Magnetic Stimulation on EEG Biomarkers, Spectral Power, and Seizure Frequency. <i>Frontiers in Neuroscience</i> , 0, 16, .	2.8	5