Brian Litt

List of Publications by Year
in descending order

76 papers	5,166 citations	147801 31 h-index	98798 67 g-index
84 all docs	84 docs citations	84 times ranked	6105 citing authors

#	Article	IF	Citations
1	Normative intracranial EEG maps epileptogenic tissues in focal epilepsy. Brain, 2022, 145, 1949-1961.	7.6	29
2	Simulated diagnostic performance of low-field MRI: Harnessing open-access datasets to evaluate novel devices. Magnetic Resonance Imaging, 2022, 87, 67-76.	1.8	9
3	Intracranial electroencephalographic biomarker predicts effective responsive neurostimulation for epilepsy prior to treatment. Epilepsia, 2022, 63, 652-662.	5.1	25
4	Neurophysiological Evidence for Cognitive Map Formation during Sequence Learning. ENeuro, 2022, 9, ENEURO.0361-21.2022.	1.9	6
5	Extracting seizure frequency from epilepsy clinic notes: a machine reading approach to natural language processing. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 873-881.	4.4	22
6	Predicting Severity of Huntington's Disease With Wearable Sensors. Frontiers in Digital Health, 2022, 4, 874208.	2.8	4
7	A framework For brain atlases: Lessons from seizure dynamics. NeuroImage, 2022, 254, 118986.	4.2	20
8	Seizure Detection in Continuous Inpatient EEG. Neurology, 2022, 98, .	1.1	8
9	Towards network-guided neuromodulation for epilepsy. Brain, 2022, 145, 3347-3362.	7.6	51
10	Electrocorticography and stereo EEG provide distinct measures of brain connectivity: implications for network models. Brain Communications, 2021, 3, fcab156.	3.3	22
11	Multimodal in vivo recording using transparent graphene microelectrodes illuminates spatiotemporal seizure dynamics at the microscale. Communications Biology, 2021, 4, 136.	4.4	28
12	Pairwise maximum entropy model explains the role of white matter structure in shaping emergent co-activation states. Communications Biology, 2021, 4, 210.	4.4	10
13	Time Evolution of the Skin–Electrode Interface Impedance under Different Skin Treatments. Sensors, 2021, 21, 5210.	3.8	9
14	A Full-Stack Application for Detecting Seizures and Reducing Data During Continuous Electroencephalogram Monitoring. , 2021, 3, e0476.		3
15	Time-evolving controllability of effective connectivity networks during seizure progression. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	41
16	Theta Synchrony Is Increased near Neural Populations That Are Active When Initiating Instructed Movement. ENeuro, 2021, 8, ENEURO.0252-20.2020.	1.9	7
17	Surgical Outcomes in Post-Traumatic Epilepsy: A Single Institutional Experience. Operative Neurosurgery, 2020, 18, 12-18.	0.8	11
18	Spatial distribution of interictal spikes fluctuates over time and localizes seizure onset. Brain, 2020, 143, 554-569.	7.6	60

#	ARTICLE	IF	CITATIONS
19	Model-based design for seizure control by stimulation. Journal of Neural Engineering, 2020, 17, 026009.	3.5	16
20	IRIS: A Modular Platform for Continuous Monitoring and Caretaker Notification in the Intensive Care Unit. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2389-2397.	6.3	7
21	The sensitivity of network statistics to incomplete electrode sampling on intracranial EEG. Network Neuroscience, 2020, 4, 484-506.	2.6	17
22	High interictal connectivity within the resection zone is associated with favorable post-surgical outcomes in focal epilepsy patients. NeuroImage: Clinical, 2019, 23, 101908.	2.7	41
23	Virtual resection predicts surgical outcome for drug-resistant epilepsy. Brain, 2019, 142, 3892-3905.	7.6	93
24	Big data in status epilepticus. Epilepsy and Behavior, 2019, 101, 106457.	1.7	9
25	White Matter Network Architecture Guides Direct Electrical Stimulation through Optimal State Transitions. Cell Reports, 2019, 28, 2554-2566.e7.	6.4	104
26	Quantitative EEG predicts outcomes in children after cardiac arrest. Neurology, 2019, 92, e2329-e2338.	1.1	27
27	Characterizing the role of the structural connectome in seizure dynamics. Brain, 2019, 142, 1955-1972.	7.6	56
28	Association of Piriform Cortex Resection With Surgical Outcomes in Patients With Temporal Lobe Epilepsy. JAMA Neurology, 2019, 76, 690.	9.0	69
29	Readmission after seizure discharge in a nationally representative sample. Neurology, 2019, 92, .	1.1	23
30	Continuous EEG is associated with favorable hospitalization outcomes for critically ill patients. Neurology, 2019, 92, e9-e18.	1.1	91
31	Mapping the structural and functional network architecture of the medial temporal lobe using 7T MRI. Human Brain Mapping, 2018, 39, 851-865.	3.6	60
32	The effect of increased intracranial EEG sampling rates in clinical practice. Clinical Neurophysiology, 2018, 129, 360-367.	1.5	17
33	Integrating Brain Implants With Local and Distributed Computing Devices: A Next Generation Epilepsy Management System. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-12.	3.7	92
34	Microfabricated intracortical extracellular matrix-microelectrodes for improving neural interfaces. Microsystems and Nanoengineering, 2018, 4, 30.	7.0	22
35	Radiofrequencyâ€Triggered Drug Release from Nanoliposomes with Millimeterâ€Scale Resolution Using a Superimposed Static Gating Field. Small, 2018, 14, e1802563.	10.0	30
36	Addressing barriers to surgical evaluation for patients with epilepsy. Epilepsy and Behavior, 2018, 86, 1-5.	1.7	12

#	Article	IF	Citations
37	Spatiotemporal evolution of focal epileptiform activity from surface and laminar field recordings in cat neocortex. Journal of Neurophysiology, 2018, 119, 2068-2081.	1.8	9
38	Improved availability and quality of care with epilepsy nurse practitioners. Neurology: Clinical Practice, 2017, 7, 109-117.	1.6	19
39	Crowdsourcing seizure detection: algorithm development and validation on human implanted device recordings. Brain, 2017, 140, 1680-1691.	7.6	101
40	Timing is everything: Where status epilepticus treatment fails. Annals of Neurology, 2017, 82, 155-165.	5.3	61
41	Postdiagnosis neurological care for patients with psychogenic nonepileptic spells (PNES). Epilepsy and Behavior, 2017, 74, 64-68.	1.7	3
42	Standards for data acquisition and software‐based analysis of in vivo electroencephalography recordings from animals. A TASK 1‐WG 5 report of the AES/ ILAE Translational Task Force of the ILAE. Epilepsia, 2017, 58, 53-67.	5.1	18
43	Spectral control of cortical activity. , 2017, , .		6
44	Interictal epileptiform activity outside the seizure onset zone impacts cognition. Brain, 2017, 140, 2157-2168.	7.6	106
45	Science in the cloud (SIC): A use case in MRI connectomics. GigaScience, 2017, 6, 1-10.	6.4	22
46	Recurring Functional Interactions Predict Network Architecture of Interictal and Ictal States in Neocortical Epilepsy. ENeuro, 2017, 4, ENEURO.0091-16.2017.	1.9	44
47	Crowdsourcing reproducible seizure forecasting in human and canine epilepsy. Brain, 2016, 139, 1713-1722.	7.6	200
48	Bioresorbable silicon electronics for transient spatiotemporal mapping of electrical activity from the cerebral cortex. Nature Materials, 2016, 15, 782-791.	27.5	400
49	A novel seizure detection algorithm informed by hidden Markov model event states. Journal of Neural Engineering, 2016, 13, 036011.	3.5	22
50	Mining continuous intracranial <scp>EEG</scp> in focal canine epilepsy: Relating interictal bursts to seizure onsets. Epilepsia, 2016, 57, 89-98.	5.1	46
51	Virtual Cortical Resection Reveals Push-Pull Network Control Preceding Seizure Evolution. Neuron, 2016, 91, 1170-1182.	8.1	185
52	Temporal behavior of seizures and interictal bursts in prolonged intracranial recordings from epileptic canines. Epilepsia, 2016, 57, 1949-1957.	5.1	22
53	Enabling an Open Data Ecosystem for the Neurosciences. Neuron, 2016, 92, 617-621.	8.1	29
54	Computational analysis in epilepsy neuroimaging: A survey of features and methods. NeuroImage: Clinical, 2016, 11, 515-529.	2.7	68

#	Article	IF	Citations
55	Focal Seizures Induced by Intracranial Electroencephalogram Grids. Cureus, 2016, 8, e831.	0.5	4
56	Leaving tissue associated with infrequent intracranial EEG seizure onsets is compatible with post-operative seizure freedom. Journal of Pediatric Epilepsy, 2015, 01, 211-219.	0.2	10
57	Engineering the Next Generation of Brain Scientists. Neuron, 2015, 86, 16-20.	8.1	7
58	Glutamate imaging (GluCEST) lateralizes epileptic foci in nonlesional temporal lobe epilepsy. Science Translational Medicine, 2015, 7, 309ra161.	12.4	156
59	Dynamic Network Drivers of Seizure Generation, Propagation and Termination in Human Neocortical Epilepsy. PLoS Computational Biology, 2015, 11, e1004608.	3.2	148
60	Forecasting Seizures Using Intracranial EEG Measures and SVM in Naturally Occurring Canine Epilepsy. PLoS ONE, 2015, 10, e0133900.	2.5	67
61	Forecasting Seizures in Dogs with Naturally Occurring Epilepsy. PLoS ONE, 2014, 9, e81920.	2.5	103
62	Transparent and flexible low noise graphene electrodes for simultaneous electrophysiology and neuroimaging. Nature Communications, 2014, 5, 5259.	12.8	448
63	Modeling the complex dynamics and changing correlations of epileptic events. Artificial Intelligence, 2014, 216, 55-75.	5.8	16
64	A high-density, high-channel count, multiplexed μECoG array for auditory-cortex recordings. Journal of Neurophysiology, 2014, 112, 1566-1583.	1.8	90
65	Feasibility study of a caregiver seizure alert system in canine epilepsy. Epilepsy Research, 2013, 106, 456-460.	1.6	34
66	A multimodal platform for cloud-based collaborative research. , 2013, , .		49
67	A novel implanted device to wirelessly record and analyze continuous intracranial canine EEG. Epilepsy Research, 2011, 96, 116-122.	1.6	95
68	Flexible biomedical devices for mapping cardiac and neural electrophysiology. , 2011, , .		0
69	Semi-Supervised Anomaly Detection for EEG Waveforms Using Deep Belief Nets. , 2010, , .		60
70	Technology Insight: neuroengineering and epilepsy—designing devices for seizure control. Nature Clinical Practice Neurology, 2008, 4, 190-201.	2.5	194
71	The statistics of a practical seizure warning system. Journal of Neural Engineering, 2008, 5, 392-401.	3.5	122
72	Feature analysis of functional MRI for discrimination between normal and epileptogenic brain. , 2007, , .		2

#	Article	IF	Citations
73	Evaluating Devices for Treating Epilepsy. Epilepsia, 2003, 44, 30-37.	5.1	22
74	Prediction of epileptic seizures. Lancet Neurology, The, 2002, 1, 22-30.	10.2	425
75	Epileptic Seizures May Begin Hours in Advance of Clinical Onset. Neuron, 2001, 30, 51-64.	8.1	577
76	Implanting intracranial electrodes does not affect spikes or network connectivity in nearby or connected brain regions. Network Neuroscience, 0, , 1-33.	2.6	1