

Brian Litt

List of Publications by Year in descending order

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Version: 2024-02-01

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	Epileptic Seizures May Begin Hours in Advance of Clinical Onset. <i>Neuron</i> , 2001, 30, 51-64.	8.1	577
2	Transparent and flexible low noise graphene electrodes for simultaneous electrophysiology and neuroimaging. <i>Nature Communications</i> , 2014, 5, 5259.	12.8	448
3	Prediction of epileptic seizures. <i>Lancet Neurology</i> , The, 2002, 1, 22-30.	10.2	425
4	Bioresorbable silicon electronics for transient spatiotemporal mapping of electrical activity from the cerebral cortex. <i>Nature Materials</i> , 2016, 15, 782-791.	27.5	400
5	Crowdsourcing reproducible seizure forecasting in human and canine epilepsy. <i>Brain</i> , 2016, 139, 1713-1722.	7.6	200
6	Technology Insight: neuroengineering and epilepsy—designing devices for seizure control. <i>Nature Clinical Practice Neurology</i> , 2008, 4, 190-201.	2.5	194
7	Virtual Cortical Resection Reveals Push-Pull Network Control Preceding Seizure Evolution. <i>Neuron</i> , 2016, 91, 1170-1182.	8.1	185
8	Glutamate imaging (GluCEST) lateralizes epileptic foci in nonlesional temporal lobe epilepsy. <i>Science Translational Medicine</i> , 2015, 7, 309ra161.	12.4	156
9	Dynamic Network Drivers of Seizure Generation, Propagation and Termination in Human Neocortical Epilepsy. <i>PLoS Computational Biology</i> , 2015, 11, e1004608.	3.2	148
10	The statistics of a practical seizure warning system. <i>Journal of Neural Engineering</i> , 2008, 5, 392-401.	3.5	122
11	Interictal epileptiform activity outside the seizure onset zone impacts cognition. <i>Brain</i> , 2017, 140, 2157-2168.	7.6	106
12	White Matter Network Architecture Guides Direct Electrical Stimulation through Optimal State Transitions. <i>Cell Reports</i> , 2019, 28, 2554-2566.e7.	6.4	104
13	Forecasting Seizures in Dogs with Naturally Occurring Epilepsy. <i>PLoS ONE</i> , 2014, 9, e81920.	2.5	103
14	Crowdsourcing seizure detection: algorithm development and validation on human implanted device recordings. <i>Brain</i> , 2017, 140, 1680-1691.	7.6	101
15	A novel implanted device to wirelessly record and analyze continuous intracranial canine EEG. <i>Epilepsy Research</i> , 2011, 96, 116-122.	1.6	95
16	Virtual resection predicts surgical outcome for drug-resistant epilepsy. <i>Brain</i> , 2019, 142, 3892-3905.	7.6	93
17	Integrating Brain Implants With Local and Distributed Computing Devices: A Next Generation Epilepsy Management System. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018, 6, 1-12.	3.7	92
18	Continuous EEG is associated with favorable hospitalization outcomes for critically ill patients. <i>Neurology</i> , 2019, 92, e9-e18.	1.1	91

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19	A high-density, high-channel count, multiplexed $\frac{1}{4}$ ECoG array for auditory-cortex recordings. <i>Journal of Neurophysiology</i> , 2014, 112, 1566-1583.	1.8	90
20	Association of Piriform Cortex Resection With Surgical Outcomes in Patients With Temporal Lobe Epilepsy. <i>JAMA Neurology</i> , 2019, 76, 690.	9.0	69
21	Computational analysis in epilepsy neuroimaging: A survey of features and methods. <i>NeuroImage: Clinical</i> , 2016, 11, 515-529.	2.7	68
22	Forecasting Seizures Using Intracranial EEG Measures and SVM in Naturally Occurring Canine Epilepsy. <i>PLoS ONE</i> , 2015, 10, e0133900.	2.5	67
23	Timing is everything: Where status epilepticus treatment fails. <i>Annals of Neurology</i> , 2017, 82, 155-165.	5.3	61
24	Semi-Supervised Anomaly Detection for EEG Waveforms Using Deep Belief Nets. , 2010, , .		60
25	Mapping the structural and functional network architecture of the medial temporal lobe using 7T MRI. <i>Human Brain Mapping</i> , 2018, 39, 851-865.	3.6	60
26	Spatial distribution of interictal spikes fluctuates over time and localizes seizure onset. <i>Brain</i> , 2020, 143, 554-569.	7.6	60
27	Characterizing the role of the structural connectome in seizure dynamics. <i>Brain</i> , 2019, 142, 1955-1972.	7.6	56
28	Towards network-guided neuromodulation for epilepsy. <i>Brain</i> , 2022, 145, 3347-3362.	7.6	51
29	A multimodal platform for cloud-based collaborative research. , 2013, , .		49
30	Mining continuous intracranial $\langle \text{scp} \rangle$ EEG in focal canine epilepsy: Relating interictal bursts to seizure onsets. <i>Epilepsia</i> , 2016, 57, 89-98.	5.1	46
31	Recurring Functional Interactions Predict Network Architecture of Interictal and Ictal States in Neocortical Epilepsy. <i>ENeuro</i> , 2017, 4, ENEURO.0091-16.2017.	1.9	44
32	High interictal connectivity within the resection zone is associated with favorable post-surgical outcomes in focal epilepsy patients. <i>NeuroImage: Clinical</i> , 2019, 23, 101908.	2.7	41
33	Time-evolving controllability of effective connectivity networks during seizure progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	41
34	Feasibility study of a caregiver seizure alert system in canine epilepsy. <i>Epilepsy Research</i> , 2013, 106, 456-460.	1.6	34
35	Radiofrequency-triggered Drug Release from Nanoliposomes with Millimeter-scale Resolution Using a Superimposed Static Gating Field. <i>Small</i> , 2018, 14, e1802563.	10.0	30
36	Enabling an Open Data Ecosystem for the Neurosciences. <i>Neuron</i> , 2016, 92, 617-621.	8.1	29

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37	Normative intracranial EEG maps epileptogenic tissues in focal epilepsy. <i>Brain</i> , 2022, 145, 1949-1961.	7.6	29
38	Multimodal in vivo recording using transparent graphene microelectrodes illuminates spatiotemporal seizure dynamics at the microscale. <i>Communications Biology</i> , 2021, 4, 136.	4.4	28
39	Quantitative EEG predicts outcomes in children after cardiac arrest. <i>Neurology</i> , 2019, 92, e2329-e2338.	1.1	27
40	Intracranial electroencephalographic biomarker predicts effective responsive neurostimulation for epilepsy prior to treatment. <i>Epilepsia</i> , 2022, 63, 652-662.	5.1	25
41	Readmission after seizure discharge in a nationally representative sample. <i>Neurology</i> , 2019, 92, .	1.1	23
42	Evaluating Devices for Treating Epilepsy. <i>Epilepsia</i> , 2003, 44, 30-37.	5.1	22
43	A novel seizure detection algorithm informed by hidden Markov model event states. <i>Journal of Neural Engineering</i> , 2016, 13, 036011.	3.5	22
44	Temporal behavior of seizures and interictal bursts in prolonged intracranial recordings from epileptic canines. <i>Epilepsia</i> , 2016, 57, 1949-1957.	5.1	22
45	Science in the cloud (SIC): A use case in MRI connectomics. <i>GigaScience</i> , 2017, 6, 1-10.	6.4	22
46	Microfabricated intracortical extracellular matrix-microelectrodes for improving neural interfaces. <i>Microsystems and Nanoengineering</i> , 2018, 4, 30.	7.0	22
47	Electrocorticography and stereo EEG provide distinct measures of brain connectivity: implications for network models. <i>Brain Communications</i> , 2021, 3, fcab156.	3.3	22
48	Extracting seizure frequency from epilepsy clinic notes: a machine reading approach to natural language processing. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 873-881.	4.4	22
49	A framework For brain atlases: Lessons from seizure dynamics. <i>NeuroImage</i> , 2022, 254, 118986.	4.2	20
50	Improved availability and quality of care with epilepsy nurse practitioners. <i>Neurology: Clinical Practice</i> , 2017, 7, 109-117.	1.6	19
51	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. <i>Epilepsia</i> , 2017, 58, 53-67.	5.1	18
52	The effect of increased intracranial EEG sampling rates in clinical practice. <i>Clinical Neurophysiology</i> , 2018, 129, 360-367.	1.5	17
53	The sensitivity of network statistics to incomplete electrode sampling on intracranial EEG. <i>Network Neuroscience</i> , 2020, 4, 484-506.	2.6	17
54	Modeling the complex dynamics and changing correlations of epileptic events. <i>Artificial Intelligence</i> , 2014, 216, 55-75.	5.8	16

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55	Model-based design for seizure control by stimulation. <i>Journal of Neural Engineering</i> , 2020, 17, 026009.	3.5	16
56	Addressing barriers to surgical evaluation for patients with epilepsy. <i>Epilepsy and Behavior</i> , 2018, 86, 1-5.	1.7	12
57	Surgical Outcomes in Post-Traumatic Epilepsy: A Single Institutional Experience. <i>Operative Neurosurgery</i> , 2020, 18, 12-18.	0.8	11
58	Leaving tissue associated with infrequent intracranial EEG seizure onsets is compatible with post-operative seizure freedom. <i>Journal of Pediatric Epilepsy</i> , 2015, 01, 211-219.	0.2	10
59	Pairwise maximum entropy model explains the role of white matter structure in shaping emergent co-activation states. <i>Communications Biology</i> , 2021, 4, 210.	4.4	10
60	Spatiotemporal evolution of focal epileptiform activity from surface and laminar field recordings in cat neocortex. <i>Journal of Neurophysiology</i> , 2018, 119, 2068-2081.	1.8	9
61	Big data in status epilepticus. <i>Epilepsy and Behavior</i> , 2019, 101, 106457.	1.7	9
62	Time Evolution of the Skin's Electrode Interface Impedance under Different Skin Treatments. <i>Sensors</i> , 2021, 21, 5210.	3.8	9
63	Simulated diagnostic performance of low-field MRI: Harnessing open-access datasets to evaluate novel devices. <i>Magnetic Resonance Imaging</i> , 2022, 87, 67-76.	1.8	9
64	Seizure Detection in Continuous Inpatient EEG. <i>Neurology</i> , 2022, 98, .	1.1	8
65	Engineering the Next Generation of Brain Scientists. <i>Neuron</i> , 2015, 86, 16-20.	8.1	7
66	IRIS: A Modular Platform for Continuous Monitoring and Caretaker Notification in the Intensive Care Unit. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 2389-2397.	6.3	7
67	Theta Synchrony Is Increased near Neural Populations That Are Active When Initiating Instructed Movement. <i>ENeuro</i> , 2021, 8, ENEURO.0252-20.2020.	1.9	7
68	Spectral control of cortical activity. , 2017, , .		6
69	Neurophysiological Evidence for Cognitive Map Formation during Sequence Learning. <i>ENeuro</i> , 2022, 9, ENEURO.0361-21.2022.	1.9	6
70	Focal Seizures Induced by Intracranial Electroencephalogram Grids. <i>Cureus</i> , 2016, 8, e831.	0.5	4
71	Predicting Severity of Huntington's Disease With Wearable Sensors. <i>Frontiers in Digital Health</i> , 2022, 4, 874208.	2.8	4
72	Postdiagnosis neurological care for patients with psychogenic nonepileptic spells (PNES). <i>Epilepsy and Behavior</i> , 2017, 74, 64-68.	1.7	3

#	ARTICLE	IF	CITATIONS
73	A Full-Stack Application for Detecting Seizures and Reducing Data During Continuous Electroencephalogram Monitoring. , 2021, 3, e0476.		3
74	Feature analysis of functional MRI for discrimination between normal and epileptogenic brain. , 2007, , .		2
75	Implanting intracranial electrodes does not affect spikes or network connectivity in nearby or connected brain regions. Network Neuroscience, 0, , 1-33.	2.6	1
76	Flexible biomedical devices for mapping cardiac and neural electrophysiology. , 2011, , .		0