

Nathan E Crone

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

3,555
citations

218677

26
h-index

161849

54
g-index

82
all docs

82
docs citations

82
times ranked

4129
citing authors

#	ARTICLE	IF	CITATIONS
1	High-frequency gamma oscillations and human brain mapping with electrocorticography. <i>Progress in Brain Research</i> , 2006, 159, 275-295.	1.4	430
2	Redefining the role of Broca's area in speech. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2871-2875.	7.1	353
3	Network dynamics of the brain and influence of the epileptic seizure onset zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5321-30.	7.1	306
4	Oscillatory dynamics coordinating human frontal networks in support of goal maintenance. <i>Nature Neuroscience</i> , 2015, 18, 1318-1324.	14.8	173
5	Cortical gamma responses: Searching high and low. <i>International Journal of Psychophysiology</i> , 2011, 79, 9-15.	1.0	172
6	Individual finger control of a modular prosthetic limb using high-density electrocorticography in a human subject. <i>Journal of Neural Engineering</i> , 2016, 13, 026017.	3.5	169
7	Dynamic Changes in Phase-Amplitude Coupling Facilitate Spatial Attention Control in Fronto-Parietal Cortex. <i>PLoS Biology</i> , 2014, 12, e1001936.	5.6	149
8	Dynamics of event-related causality in brain electrical activity. <i>Human Brain Mapping</i> , 2008, 29, 1170-1192.	3.6	112
9	Dynamics of large-scale cortical interactions at high gamma frequencies during word production: Event related causality (ERC) analysis of human electrocorticography (ECoG). <i>NeuroImage</i> , 2011, 56, 2218-2237.	4.2	75
10	Spatiotemporal Dynamics Underlying Object Completion in Human Ventral Visual Cortex. <i>Neuron</i> , 2014, 83, 736-748.	8.1	75
11	Rapid tuning shifts in human auditory cortex enhance speech intelligibility. <i>Nature Communications</i> , 2016, 7, 13654.	12.8	71
12	The Potential for a Speech Brain-Computer Interface Using Chronic Electrocorticography. <i>Neurotherapeutics</i> , 2019, 16, 144-165.	4.4	71
13	Spatiotemporal dynamics of orthographic and lexical processing in the ventral visual pathway. <i>Nature Human Behaviour</i> , 2021, 5, 389-398.	12.0	71
14	Subdural electrodes. <i>Clinical Neurophysiology</i> , 2010, 121, 1376-1392.	1.5	70
15	Neural fragility as an EEG marker of the seizure onset zone. <i>Nature Neuroscience</i> , 2021, 24, 1465-1474.	14.8	61
16	ECoG high-gamma modulation versus electrical stimulation for presurgical language mapping. <i>Epilepsy and Behavior</i> , 2018, 79, 26-33.	1.7	54
17	Spatiotemporal dynamics of word retrieval in speech production revealed by cortical high-frequency band activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4530-E4538.	7.1	53
18	Frontal and motor cortex contributions to response inhibition: evidence from electrocorticography. <i>Journal of Neurophysiology</i> , 2016, 115, 2224-2236.	1.8	48

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19	Spatial-temporal functional mapping of language at the bedside with electrocorticography. <i>Neurology</i> , 2016, 86, 1181-1189.	1.1	46
20	Using network analysis to localize the epileptogenic zone from invasive EEG recordings in intractable focal epilepsy. <i>Network Neuroscience</i> , 2018, 2, 218-240.	2.6	40
21	Serious and potentially life threatening complications of cardiac stress testing: Physiological mechanisms and management strategies. <i>Journal of Nuclear Cardiology</i> , 2015, 22, 1198-1213.	2.1	39
22	Semantic attributes are encoded in human electrocorticographic signals during visual object recognition. <i>NeuroImage</i> , 2017, 148, 318-329.	4.2	37
23	Intracortical Somatosensory Stimulation to Elicit Fingertip Sensations in an Individual With Spinal Cord Injury. <i>Neurology</i> , 2022, 98, .	1.1	36
24	Presurgical language localization with visual naming associated ECoG high-gamma modulation in pediatric drug-resistant epilepsy. <i>Epilepsia</i> , 2017, 58, 663-673.	5.1	34
25	After-discharges and seizures during pediatric extra-operative electrical cortical stimulation functional brain mapping: Incidence, thresholds, and determinants. <i>Clinical Neurophysiology</i> , 2017, 128, 2078-2086.	1.5	34
26	Cascade of neural processing orchestrates cognitive control in human frontal cortex. <i>ELife</i> , 2016, 5, .	6.0	33
27	Electrocorticographic language mapping in children by high-gamma synchronization during spontaneous conversation: Comparison with conventional electrical cortical stimulation. <i>Epilepsy Research</i> , 2015, 110, 78-87.	1.6	32
28	Motor and Sensory Mapping of the Frontal and Occipital Lobes. <i>Epilepsia</i> , 1998, 39, S69-80.	5.1	31
29	Brain network dynamics in the human articulatory loop. <i>Clinical Neurophysiology</i> , 2017, 128, 1473-1487.	1.5	29
30	Ethical commitments, principles, and practices guiding intracranial neuroscientific research in humans. <i>Neuron</i> , 2022, 110, 188-194.	8.1	29
31	Common data elements for epilepsy mobile health systems. <i>Epilepsia</i> , 2018, 59, 1020-1026.	5.1	27
32	Adaptation of high-gamma responses in human auditory association cortex. <i>Journal of Neurophysiology</i> , 2014, 112, 2147-2163.	1.8	26
33	Changes in human brain dynamics during behavioral priming and repetition suppression. <i>Progress in Neurobiology</i> , 2020, 189, 101788.	5.7	26
34	Coarse Electrocorticographic Decoding of Ipsilateral Reach in Patients with Brain Lesions. <i>PLoS ONE</i> , 2014, 9, e115236.	2.5	25
35	Electrocorticographic high-gamma modulation with passive listening paradigm for pediatric extraoperative language mapping. <i>Epilepsia</i> , 2018, 59, 792-801.	5.1	25
36	The neural tides of sleep and consciousness revealed by single-pulse electrical brain stimulation. <i>Sleep</i> , 2019, 42, .	1.1	24

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37	Dynamics of functional and effective connectivity within human cortical motor control networks. <i>Clinical Neurophysiology</i> , 2015, 126, 987-996.	1.5	23
38	Strategies for non-EEG seizure detection and timing for alerting and interventions with tonic-clonic seizures. <i>Epilepsia</i> , 2018, 59, 36-41.	5.1	23
39	Afferent inputs to cortical fast-spiking interneurons organize pyramidal cell network oscillations at high-gamma frequencies (60-200 Hz). <i>Journal of Neurophysiology</i> , 2014, 112, 3001-3011.	1.8	22
40	Altered task-related modulation of long-range connectivity in children with autism. <i>Autism Research</i> , 2018, 11, 245-257.	3.8	22
41	Cortical subnetwork dynamics during human language tasks. <i>NeuroImage</i> , 2016, 135, 261-272.	4.2	20
42	HARMONIE: A multimodal control framework for human assistive robotics. , 2013, , .		19
43	Language and motor function thresholds during pediatric extra-operative electrical cortical stimulation brain mapping. <i>Clinical Neurophysiology</i> , 2017, 128, 2087-2093.	1.5	19
44	Brain-Computer Interface: Applications to Speech Decoding and Synthesis to Augment Communication. <i>Neurotherapeutics</i> , 2022, 19, 263-273.	4.4	19
45	Shared Control of Bimanual Robotic Limbs With a Brain-Machine Interface for Self-Feeding. <i>Frontiers in Neurorobotics</i> , 0, 16, .	2.8	19
46	Neuropsychological outcomes after resection of cortical sites with visual naming associated electrocorticographic high-gamma modulation. <i>Epilepsy Research</i> , 2019, 151, 17-23.	1.6	18
47	Keyword Spotting Using Human Electrocorticographic Recordings. <i>Frontiers in Neuroscience</i> , 2019, 13, 60.	2.8	18
48	Subthalamic Nucleus Activity Influences Sensory and Motor Cortex during Force Transduction. <i>Cerebral Cortex</i> , 2020, 30, 2615-2626.	2.9	18
49	Spatial-Temporal Functional Mapping Combined With Cortico-Cortical Evoked Potentials in Predicting Cortical Stimulation Results. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 661976.	2.0	18
50	Candidates for Synergies: Linear Discriminants versus Principal Components. <i>Computational Intelligence and Neuroscience</i> , 2014, 2014, 1-10.	1.7	16
51	Feature Selection Methods for Zero-Shot Learning of Neural Activity. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 41.	2.5	14
52	Cortical Responses to Input From Distant Areas are Modulated by Local Spontaneous Alpha/Beta Oscillations. <i>Cerebral Cortex</i> , 2019, 29, 777-787.	2.9	14
53	Novel intraoperative online functional mapping of somatosensory finger representations for targeted stimulating electrode placement: technical note. <i>Journal of Neurosurgery</i> , 2021, , 1-8.	1.6	14
54	Real-time voice activity detection for ECoG-based speech brain machine interfaces. , 2014, , .		13

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55	BCI2000Web and WebFM: Browser-Based Tools for Brain Computer Interfaces and Functional Brain Mapping. <i>Frontiers in Neuroscience</i> , 2018, 12, 1030.	2.8	12
56	Graph theoretical analysis of evoked potentials shows network influence of epileptogenic mesial temporal region. <i>Human Brain Mapping</i> , 2021, 42, 4173-4186.	3.6	12
57	Antiepileptic drug withdrawal and seizure severity in the epilepsy monitoring unit. <i>Epilepsy and Behavior</i> , 2020, 109, 107128.	1.7	10
58	Bottom-of-sulcus focal cortical dysplasia presenting as epilepsia partialis continua multimodality characterization including 7T MRI. <i>Child's Nervous System</i> , 2018, 34, 1267-1269.	1.1	9
59	The Dynamics of Language Network Interactions in Lexical Selection: An Intracranial EEG Study. <i>Cerebral Cortex</i> , 2021, 31, 2058-2070.	2.9	9
60	Effects of stimulation intensity on intracranial cortico-cortical evoked potentials: A titration study. <i>Clinical Neurophysiology</i> , 2021, 132, 2766-2777.	1.5	7
61	Stimulating native seizures with neural resonance: a new approach to localize the seizure onset zone. <i>Brain</i> , 2022, 145, 3886-3900.	7.6	7
62	Wilson's disease presenting with an unusual cough. <i>Movement Disorders</i> , 2005, 20, 891-893.	3.9	6
63	Multi-Regional Adaptation in Human Auditory Association Cortex. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 247.	2.0	6
64	Transfer Function Models for the Localization of Seizure Onset Zone From Cortico-Cortical Evoked Potentials. <i>Frontiers in Neurology</i> , 2020, 11, 579961.	2.4	6
65	Electrocorticographic high-gamma language mapping: Limitations of comparisons with electrocortical stimulation. <i>Epilepsy and Behavior</i> , 2018, 82, 200-201.	1.7	5
66	Seizure triggers identified postictally using a smart watch reporting system. <i>Epilepsy and Behavior</i> , 2022, 126, 108472.	1.7	5
67	Virtual Cortical Stimulation Mapping of Epilepsy Networks to Localize the Epileptogenic Zone. , 2019, 2019, 2328-2331.		4
68	Intracortical microstimulation of somatosensory cortex generates evoked responses in motor cortex. , 2021, , .		4
69	Significance of event related causality (ERC) in eloquent neural networks. <i>Neural Networks</i> , 2022, 149, 204-216.	5.9	3
70	Design and implementation of a human ECoG simulator for testing brain-machine interfaces. , 2013, , .		1
71	Spatio-spectral analysis of ECoG signals during voice activity. , 2013, , .		0
72	Optimal selection of electrocorticographic sensors for voice activity detection. , 2014, , .		0

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73	Task dependent modulation before, during and after visually evoked responses in human intracranial recordings. <i>Journal of Vision</i> , 2017, 17, 983.	0.3	0
74	Characteristics and stability of sensorimotor activity driven by isolated-muscle group activation in a human with tetraplegia. <i>Scientific Reports</i> , 2022, 12, .	3.3	0