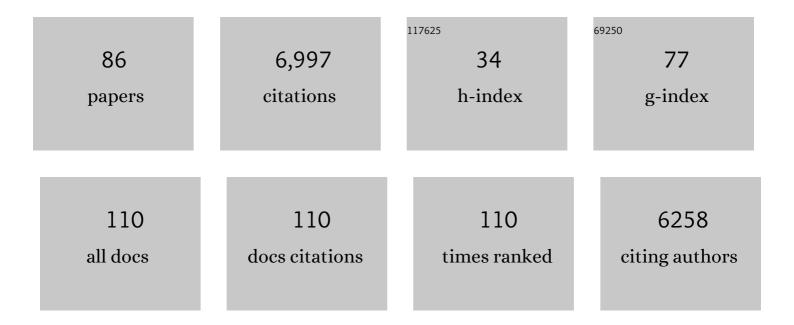
Catherine A Schevon

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Tracking Multisite Seizure Propagation Using Ictal High-Gamma Activity. Journal of Clinical Neurophysiology, 2022, 39, 592-601.	1.7	5
2	Alpha and broadband highâ€frequency activity track task dynamics and predict performance in controlled decisionâ€making. Psychophysiology, 2022, 59, e13901.	2.4	10
3	Human interictal epileptiform discharges are bidirectional traveling waves echoing ictal discharges. ELife, 2022, 11, .	6.0	31
4	Multiscale temporal integration organizes hierarchical computation in human auditory cortex. Nature Human Behaviour, 2022, 6, 455-469.	12.0	36
5	Single unit analysis and wide-field imaging reveal alterations in excitatory and inhibitory neurons in glioma. Brain, 2022, 145, 3666-3680.	7.6	5
6	Neuronal Firing and Waveform Alterations through Ictal Recruitment in Humans. Journal of Neuroscience, 2021, 41, 766-779.	3.6	21
7	Stimulating Solutions for Intractable Epilepsy. Epilepsy Currents, 2021, , 153575972110124.	0.8	6
8	Wheels Within Wheels: Theory and Practice of Epileptic Networks. Epilepsy Currents, 2021, 21, 243-247.	0.8	19
9	Highlights From AES2020, a Virtual American Epilepsy Society Experience. Epilepsy Currents, 2021, , 153575972110182.	0.8	1
10	Electrically stimulated auras as a potential biomarker of the epileptogenic zone. Epilepsy and Behavior, 2021, 122, 108116.	1.7	1
11	Ex vivo multi-electrode analysis reveals spatiotemporal dynamics of ictal behavior at the infiltrated margin of glioma. Neurobiology of Disease, 2020, 134, 104676.	4.4	9
12	Single-Neuron Representations of Spatial Targets in Humans. Current Biology, 2020, 30, 245-253.e4.	3.9	37
13	Seizure Activity Across Scales From Neuronal Population Firing to Clonic Motor Semiology. Journal of Clinical Neurophysiology, 2020, 37, 462-464.	1.7	5
14	Dual mechanisms of ictal high frequency oscillations in human rhythmic onset seizures. Scientific Reports, 2020, 10, 19166.	3.3	18
15	Functionally distinct high and low theta oscillations in the human hippocampus. Nature Communications, 2020, 11, 2469.	12.8	126
16	All-cause mortality and SUDEP in a surgical epilepsy population. Epilepsy and Behavior, 2020, 108, 107093.	1.7	22
17	Controversies on the network theory of epilepsy: Debates held during the ICTALS 2019 conference. Seizure: the Journal of the British Epilepsy Association, 2020, 78, 78-85.	2.0	17
18	Glioma-Induced Alterations in Neuronal Activity and Neurovascular Coupling during Disease Progression. Cell Reports, 2020, 31, 107500.	6.4	61

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19	A model for focal seizure onset, propagation, evolution, and progression. ELife, 2020, 9, .	6.0	62
20	Cortical naming sites and increasing age in adults with refractory epilepsy: More might be less. Epilepsia, 2019, 60, 1619-1626.	5.1	2
21	Postictal clinical and <scp>EEG</scp> activity following intracranially recorded bilateral tonicâ€clonic seizures. Epilepsia, 2019, 60, 1746-1747.	5.1	4
22	Risk of seizures induced by intracranial research stimulation: analysis of 770 stimulation sessions. Journal of Neural Engineering, 2019, 16, 066039.	3.5	8
23	Hierarchical Encoding of Attended Auditory Objects in Multi-talker Speech Perception. Neuron, 2019, 104, 1195-1209.e3.	8.1	90
24	Burst suppression uncovers rapid widespread alterations in network excitability caused by an acute seizure focus. Brain, 2019, 142, 3045-3058.	7.6	10
25	Role of paroxysmal depolarization in focal seizure activity. Journal of Neurophysiology, 2019, 122, 1861-1873.	1.8	22
26	Commentary on: Corpus callosum lowâ€frequency stimulation suppresses seizures in an acute rat model of focal cortical seizures. Epilepsia, 2019, 60, 1275-1276.	5.1	0
27	Highlights From the Annual Meeting of the American Epilepsy Society 2018. Epilepsy Currents, 2019, 19, 152-158.	0.8	5
28	Multiscale recordings reveal the dynamic spatial structure of human seizures. Neurobiology of Disease, 2019, 127, 303-311.	4.4	50
29	Teaching NeuroImages: Acute stroke captured on EEG in the ICU. Neurology, 2019, 92, e626-e627.	1.1	3
30	Widespread temporal coding of cognitive control in the human prefrontal cortex. Nature Neuroscience, 2019, 22, 1883-1891.	14.8	77
31	Memory retrieval modulates spatial tuning of single neurons in the human entorhinal cortex. Nature Neuroscience, 2019, 22, 2078-2086.	14.8	28
32	Postictal clinical and electroencephalographic activity following intracranially recorded bilateral tonic–clonic seizures. Epilepsia, 2019, 60, 74-84.	5.1	28
33	Temporal Context Invariance Reveals Neural Processing Timescales in Human Auditory Cortex. , 2019, , .		0
34	Somatic <i>SLC35A2</i> variants in the brain are associated with intractable neocortical epilepsy. Annals of Neurology, 2018, 83, 1133-1146.	5.3	95
35	Laser ablation is effective for temporal lobe epilepsy with and without mesial temporal sclerosis if hippocampal seizure onsets are localized by stereoelectroencephalography. Epilepsia, 2018, 59, 595-606.	5.1	72
36	The Relationship Between Ictal Multi-Unit Activity and the Electrocorticogram. International Journal of Neural Systems, 2018, 28, 1850027.	5.2	7

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37	Lateralized hippocampal oscillations underlie distinct aspects of human spatial memory and navigation. Nature Communications, 2018, 9, 2423.	12.8	132
38	Role of inhibitory control in modulating focal seizure spread. Brain, 2018, 141, 2083-2097.	7.6	75
39	Multivariate regression methods for estimating velocity of ictal discharges from human microelectrode recordings. Journal of Neural Engineering, 2017, 14, 044001.	3.5	24
40	Cross-scale effects of neural interactions during human neocortical seizure activity. Proceedings of the United States of America, 2017, 114, 10761-10766.	7.1	45
41	Update on the mechanisms and roles of highâ€frequency oscillations in seizures and epileptic disorders. Epilepsia, 2017, 58, 1330-1339.	5.1	145
42	Methodological standards and functional correlates of depth inÂvivo electrophysiological recordings in control rodents. A TASK 1―WG 3 report of the AES / ILAE Translational Task Force of the ILAE. Epilepsia, 2017, 58, 28-39.	5.1	17
43	The role of computational modelling in seizure localization. Brain, 2017, 140, 254-256.	7.6	5
44	Neuronal activity in human anterior cingulate cortex modulates with internal cognitive state during multi-source interference task. , 2017, 2017, 962-965.		3
45	The ictal wavefront is the spatiotemporal source of discharges during spontaneous human seizures. Nature Communications, 2016, 7, 11098.	12.8	124
46	Functional differences among stimulation-identified cortical naming sites in the temporal region. Epilepsy and Behavior, 2016, 60, 124-129.	1.7	15
47	Toward a Mechanistic Understanding of Epileptic Networks. Current Neurology and Neuroscience Reports, 2016, 16, 97.	4.2	53
48	Multiscale Aspects of Generation of High-Gamma Activity during Seizures in Human Neocortex. ENeuro, 2016, 3, ENEURO.0141-15.2016.	1.9	30
49	Investigating the Function of Deep Cortical and Subcortical Structures Using Stereotactic Electroencephalography: Lessons from the Anterior Cingulate Cortex. Journal of Visualized Experiments, 2015, , .	0.3	2
50	Intracranial recordings reveal transient response dynamics during information maintenance in human cerebral cortex. Human Brain Mapping, 2015, 36, 3988-4003.	3.6	15
51	Epileptogenic Networks: Applying Network Analysis Techniques to Human Seizure Activity. Springer Series in Computational Neuroscience, 2015, , 293-312.	0.3	1
52	Modeling Focal Epileptic Activity in the Wilson–Cowan Model with Depolarization Block. Journal of Mathematical Neuroscience, 2015, 5, 7.	2.4	43
53	Seizure localization using ictal phase-locked high gamma. Neurology, 2015, 84, 2320-2328.	1.1	95
54	Single unit action potentials in humans and the effect of seizure activity. Brain, 2015, 138, 2891-2906.	7.6	81

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55	Ignition's glow: Ultra-fast spread of global cortical activity accompanying local "ignitions―in visual cortex during conscious visual perception. Consciousness and Cognition, 2015, 35, 206-224.	1.5	47
56	Extraoperative neurostimulation mapping: Results from an international survey of epilepsy surgery programs. Epilepsia, 2014, 55, 933-939.	5.1	58
57	Exemplar Selectivity Reflects Perceptual Similarities in the Human Fusiform Cortex. Cerebral Cortex, 2014, 24, 1879-1893.	2.9	67
58	Characteristics and clinical impact of stimulation-evoked seizures during extraoperative cortical mapping. Epilepsy and Behavior, 2014, 34, 6-8.	1.7	20
59	Features and timing of the response of single neurons to novelty in the substantia nigra. Brain Research, 2014, 1542, 79-84.	2.2	19
60	How inhibition influences seizure propagation. Neuropharmacology, 2013, 69, 45-54.	4.1	105
61	Ictal high frequency oscillations distinguish two types of seizure territories in humans. Brain, 2013, 136, 3796-3808.	7.6	188
62	Synchronization and desynchronization in epilepsy: controversies and hypotheses. Journal of Physiology, 2013, 591, 787-797.	2.9	450
63	Mechanisms Underlying Selective Neuronal Tracking of Attended Speech at a "Cocktail Party― Neuron, 2013, 77, 980-991.	8.1	732
64	Field effects and ictal synchronization: insights from in homine observations. Frontiers in Human Neuroscience, 2013, 7, 828.	2.0	14
65	Evidence of an inhibitory restraint of seizure activity in humans. Nature Communications, 2012, 3, 1060.	12.8	365
66	A case-study on learning from large-scale intracranial EEG data using multi-core machines and clusters. , 2011, , .		0
67	Tuning of the Human Neocortex to the Temporal Dynamics of Attended Events. Journal of Neuroscience, 2011, 31, 3176-3185.	3.6	234
68	Propagation of Epileptiform Activity on a Submillimeter Scale. Journal of Clinical Neurophysiology, 2010, 27, 406-411.	1.7	56
69	Impaired consciousness in temporal lobe seizures: role of cortical slow activity. Brain, 2010, 133, 3764-3777.	7.6	181
70	Patient-Specific Seizure Detection from Intra-cranial EEG Using High Dimensional Clustering. , 2010, , .		3
71	Extraoperative Functional Mapping and Staged Resection of Supratentorial Tumors near Eloquent Cortex in Children. Pediatric Neurosurgery, 2009, 45, 175-180.	0.7	12
72	Spatial characterization of interictal high frequency oscillations in epileptic neocortex. Brain, 2009, 132, 3047-3059.	7.6	134

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73	INITIAL SURGICAL EXPERIENCE WITH A DENSE CORTICAL MICROARRAY IN EPILEPTIC PATIENTS UNDERGOING CRANIOTOMY FOR SUBDURAL ELECTRODE IMPLANTATION. Neurosurgery, 2009, 64, 540-545.	1.1	49
74	Cyclic electrographic seizures in critically ill patients. Epilepsia, 2008, 49, 281-287.	5.1	40
75	Microphysiology of Epileptiform Activity in Human Neocortex. Journal of Clinical Neurophysiology, 2008, 25, 321-330.	1.7	149
76	High-resolution Electroencephalography Provides New Insights into Epilepsy. US Neurology, 2008, 04, 44.	0.2	1
77	Cortical abnormalities in epilepsy revealed by local EEG synchrony. NeuroImage, 2007, 35, 140-148.	4.2	174
78	Pediatric Language Mapping: Sensitivity of Neurostimulation and Wada Testing in Epilepsy Surgery. Epilepsia, 2007, 48, 539-545.	5.1	102
79	Pediatric Language Mapping: Sensitivity of Neurostimulation and Wada Testing in Epilepsy Surgery. Neurosurgery, 2006, 59, 480-481.	1.1	0
80	Magnetoencephalography in epilepsy: tailoring interpretation and making inferences. Current Neurology and Neuroscience Reports, 2006, 6, 327-331.	4.2	10
81	Magnetoencephalography is not a substitute for intracranial electroencephalography. Annals of Neurology, 2006, 60, 270-270.	5.3	2
82	Inadequacy of Standard Screen Resolution for Localization of Seizures Recorded from Intracranial Electrodes. Epilepsia, 2004, 45, 1453-1458.	5.1	8
83	Star Unfolding of a Polytope with Applications. SIAM Journal on Computing, 1997, 26, 1689-1713.	1.0	59
84	Optimization by Simulated Annealing: An Experimental Evaluation; Part II, Graph Coloring and Number Partitioning. Operations Research, 1991, 39, 378-406.	1.9	672
85	Optimization by Simulated Annealing: An Experimental Evaluation; Part I, Graph Partitioning. Operations Research, 1989, 37, 865-892.	1.9	1,099
86	On the development of closed convex curves on 3-polytopes. Journal of Geometry, 1989, 35, 152-157.	0.4	3