

# Heidi E Kirsch

## List of Publications by Citations

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86  
papers

7,304  
citations

37  
h-index

85  
g-index

96  
ext. papers

8,748  
ext. citations

6.1  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
86	High gamma power is phase-locked to theta oscillations in human neocortex. <i>Science</i> , <b>2006</b> , 313, 1626-8	33.3	1786
85	De novo mutations in epileptic encephalopathies. <i>Nature</i> , <b>2013</b> , 501, 217-21	50.4	1081
84	Seizures and epileptiform activity in the early stages of Alzheimer disease. <i>JAMA Neurology</i> , <b>2013</b> , 70, 1158-66	17.2	387
83	De novo mutations in synaptic transmission genes including DNM1 cause epileptic encephalopathies. <i>American Journal of Human Genetics</i> , <b>2014</b> , 95, 360-70	11	299
82	Five-dimensional neuroimaging: localization of the time-frequency dynamics of cortical activity. <i>NeuroImage</i> , <b>2008</b> , 40, 1686-700	7.9	219
81	Incidence and impact of subclinical epileptiform activity in Alzheimer's disease. <i>Annals of Neurology</i> , <b>2016</b> , 80, 858-870	9.4	218
80	Emergent network topology at seizure onset in humans. <i>Epilepsy Research</i> , <b>2008</b> , 79, 173-86	3	190
79	Mapping functional connectivity in patients with brain lesions. <i>Annals of Neurology</i> , <b>2008</b> , 63, 193-203	9.4	183
78	Spatiotemporal dynamics of word processing in the human brain. <i>Frontiers in Neuroscience</i> , <b>2007</b> , 1, 185-96	9.6	171
77	Genome-wide mega-analysis identifies 16 loci and highlights diverse biological mechanisms in the common epilepsies. <i>Nature Communications</i> , <b>2018</b> , 9, 5269	17.4	169
76	Spatiotemporal imaging of cortical activation during verb generation and picture naming. <i>NeuroImage</i> , <b>2010</b> , 50, 291-301	7.9	163
75	Single-trial speech suppression of auditory cortex activity in humans. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 16643-50	6.6	150
74	The howling cortex: seizures and general anesthetic drugs. <i>Anesthesia and Analgesia</i> , <b>2008</b> , 107, 1689-703	3.9	140
73	Global and regional functional connectivity maps of neural oscillations in focal epilepsy. <i>Brain</i> , <b>2015</b> , 138, 2249-62	11.2	136
72	Ultra-rare genetic variation in common epilepsies: a case-control sequencing study. <i>Lancet Neurology</i> , <b>2017</b> , 16, 135-143	24.1	133
71	Resting functional connectivity in patients with brain tumors in eloquent areas. <i>Annals of Neurology</i> , <b>2011</b> , 69, 521-32	9.4	117
70	Neocortical hyperexcitability in a human case of tuberous sclerosis complex and mice lacking neuronal expression of TSC1. <i>Annals of Neurology</i> , <b>2007</b> , 61, 139-52	9.4	104

69	Epileptogenic zone localization using magnetoencephalography predicts seizure freedom in epilepsy surgery. <i>Epilepsia</i> , <b>2015</b> , 56, 949-58	6.4	95
68	Noninvasive testing, early surgery, and seizure freedom in tuberous sclerosis complex. <i>Neurology</i> , <b>2010</b> , 74, 392-8	6.5	93
67	What can be learned from high-resolution sleep data using ECoG. <i>BMC Neuroscience</i> , <b>2012</b> , 13,	3.2	78
66	Localization of neurosurgically implanted electrodes via photograph-MRI-radiograph coregistration. <i>Journal of Neuroscience Methods</i> , <b>2008</b> , 174, 106-15	3	77
65	Dynamics of hemispheric dominance for language assessed by magnetoencephalographic imaging. <i>Annals of Neurology</i> , <b>2012</b> , 71, 668-86	9.4	74
64	Hierarchy of prediction errors for auditory events in human temporal and frontal cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 6755-60	11.5	72
63	Pathological pattern formation and cortical propagation of epileptic seizures. <i>Journal of the Royal Society Interface</i> , <b>2005</b> , 2, 113-27	4.1	59
62	Magnetoencephalographic imaging of resting-state functional connectivity predicts postsurgical neurological outcome in brain gliomas. <i>Neurosurgery</i> , <b>2012</b> , 71, 1012-22	3.2	56
61	Fast oscillations associated with interictal spikes localize the epileptogenic zone in patients with partial epilepsy. <i>NeuroImage</i> , <b>2008</b> , 39, 661-8	7.9	56
60	Cortical spatio-temporal dynamics underlying phonological target detection in humans. <i>Journal of Cognitive Neuroscience</i> , <b>2011</b> , 23, 1437-46	3.1	55
59	Interictal MEG/MSI in intractable mesial temporal lobe epilepsy: spike yield and characterization. <i>Clinical Neurophysiology</i> , <b>2010</b> , 121, 325-31	4.3	54
58	Automated localization of magnetoencephalographic interictal spikes by adaptive spatial filtering. <i>Clinical Neurophysiology</i> , <b>2006</b> , 117, 2264-71	4.3	53
57	Limitations of Wada memory asymmetry as a predictor of outcomes after temporal lobectomy. <i>Neurology</i> , <b>2005</b> , 65, 676-80	6.5	53
56	Development of a longitudinal integrated clerkship at an academic medical center. <i>Medical Education Online</i> , <b>2011</b> , 16,	4.4	52
55	encephalopathy: A new disease of vesicle fission. <i>Neurology</i> , <b>2017</b> , 89, 385-394	6.5	46
54	Copy number variant analysis from exome data in 349 patients with epileptic encephalopathy. <i>Annals of Neurology</i> , <b>2015</b> , 78, 323-8	9.4	44
53	Preoperative localization of hand motor cortex by adaptive spatial filtering of magnetoencephalography data. <i>Journal of Neurosurgery</i> , <b>2008</b> , 109, 228-37	3.2	43
52	American Clinical Magnetoencephalography Society Clinical Practice Guideline 2: presurgical functional brain mapping using magnetic evoked fields. <i>Journal of Clinical Neurophysiology</i> , <b>2011</b> , 28, 355-61	2.2	42

51	Hemispheric asymmetries and prosodic emotion recognition deficits in Parkinson's disease. <i>Neuropsychologia</i> , <b>2012</b> , 50, 1936-45	3.2	40
50	Mechanisms of seizure propagation in a cortical model. <i>Journal of Computational Neuroscience</i> , <b>2007</b> , 22, 63-80	1.4	40
49	Social cognition and epilepsy surgery. <i>Epilepsy and Behavior</i> , <b>2006</b> , 8, 71-80	3.2	36
48	The epilepsy phenome/genome project. <i>Clinical Trials</i> , <b>2013</b> , 10, 568-86	2.2	34
47	Bifurcation control of a seizing human cortex. <i>Physical Review E</i> , <b>2006</b> , 73, 041928	2.4	33
46	Magnetic source imaging for the surgical evaluation of electroencephalography-confirmed secondary bilateral synchrony in intractable epilepsy. <i>Journal of Neurosurgery</i> , <b>2009</b> , 111, 1248-56	3.2	29
45	Concordance between routine interictal magnetoencephalography and simultaneous scalp electroencephalography in a sample of patients with epilepsy. <i>Journal of Clinical Neurophysiology</i> , <b>2007</b> , 24, 215-31	2.2	27
44	American Clinical MEG Society (ACMEGS) Position Statement #2: The Value of Magnetoencephalography (MEG)/Magnetic Source Imaging (MSI) in Noninvasive Presurgical Mapping of Eloquent Cortices of Patients Preparing for Surgical Interventions. <i>Journal of Clinical Neurophysiology</i> , <b>2017</b> , 34, 189-195	2.2	22
43	Auras in generalized epilepsy. <i>Neurology</i> , <b>2014</b> , 83, 1444-9	6.5	22
42	Phenotypic analysis of 303 multiplex families with common epilepsies. <i>Brain</i> , <b>2017</b> , 140, 2144-2156	11.2	22
41	Predicting the location of mouth motor cortex in patients with brain tumors by using somatosensory evoked field measurements. <i>Journal of Neurosurgery</i> , <b>2007</b> , 107, 481-7	3.2	19
40	A continuous mapping of sleep states through association of EEG with a mesoscale cortical model. <i>Journal of Computational Neuroscience</i> , <b>2011</b> , 30, 471-87	1.4	18
39	The effects of epilepsy and its treatments on affect and emotion. <i>Neurocase</i> , <b>2009</b> , 15, 206-16	0.8	17
38	Sex differences in seizure types and symptoms. <i>Epilepsy and Behavior</i> , <b>2014</b> , 41, 103-8	3.2	16
37	Differential Sources for 2 Neural Signatures of Target Detection: An Electroencephalography Study. <i>Cerebral Cortex</i> , <b>2018</b> , 28, 9-20	5.1	13
36	Open loop optogenetic control of simulated cortical epileptiform activity. <i>Journal of Computational Neuroscience</i> , <b>2014</b> , 36, 515-25	1.4	13
35	Direct Evidence for Prediction Signals in Frontal Cortex Independent of Prediction Error. <i>Cerebral Cortex</i> , <b>2019</b> , 29, 4530-4538	5.1	13
34	Effect of Levetiracetam on Cognition in Patients With Alzheimer Disease With and Without Epileptiform Activity: A Randomized Clinical Trial. <i>JAMA Neurology</i> , <b>2021</b> , 78, 1345-1354	17.2	12

33	Spatial localization of cortical time-frequency dynamics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 4941-4		11
32	The nociferous influence of interictal discharges on memory. <i>Brain</i> , <b>2017</b> , 140, 2072-2074	11.2	9
31	Closed-loop feedback control and bifurcation analysis of epileptiform activity via optogenetic stimulation in a mathematical model of human cortex. <i>Physical Review E</i> , <b>2016</b> , 93, 012416	2.4	9
30	A probabilistic framework for a physiological representation of dynamically evolving sleep state. <i>Journal of Computational Neuroscience</i> , <b>2014</b> , 37, 105-24	1.4	9
29	Multimodal functional mapping of sensorimotor cortex prior to resection of an epileptogenic perirolandic lesion. <i>Epilepsy and Behavior</i> , <b>2004</b> , 5, 407-10	3.2	9
28	The sensitivity and significance of lateralized interictal slow activity on magnetoencephalography in focal epilepsy. <i>Epilepsy Research</i> , <b>2016</b> , 121, 21-8	3	8
27	Complex visual hallucinations as post-ictal cortical release phenomena. <i>Neurocase</i> , <b>2006</b> , 12, 107-10	0.8	5
26	Evaluation of a dual signal subspace projection algorithm in magnetoencephalographic recordings from patients with intractable epilepsy and vagus nerve stimulators. <i>NeuroImage</i> , <b>2019</b> , 188, 161-170	7.9	5
25	A probabilistic method for determining cortical dynamics during seizures. <i>Journal of Computational Neuroscience</i> , <b>2015</b> , 38, 559-75	1.4	4
24	Comparison of DSSP and tSSS algorithms for removing artifacts from vagus nerve stimulators in magnetoencephalography data. <i>Journal of Neural Engineering</i> , <b>2019</b> , 16, 066045	5	4
23	Interpretation of seizure evolution pathways via a mean-field cortical model. <i>BMC Neuroscience</i> , <b>2012</b> , 13,	3.2	4
22	206 Spikes, Slowing, and Functional Connectivity. <i>Neurosurgery</i> , <b>2016</b> , 63, 181	3.2	4
21	Emotion recognition in objects in patients with neurological disease. <i>Neuropsychology</i> , <b>2019</b> , 33, 1163-1173	3.7	4
20	The 10 Common Evidence-Supported Indications for MEG in Epilepsy Surgery: An Illustrated Compendium. <i>Journal of Clinical Neurophysiology</i> , <b>2020</b> , 37, 483-497	2.2	4
19	Optogenetic induced epileptiform activity in a model human cortex. <i>SpringerPlus</i> , <b>2015</b> , 4, 155		3
18	Improving integration of clinical clerkship didactic curriculum. <i>Medical Education Development</i> , <b>2011</b> , 1, 1		3
17	Diverse genetic causes of polymicrogyria with epilepsy. <i>Epilepsia</i> , <b>2021</b> , 62, 973-983	6.4	3
16	Neuronal synchrony abnormalities associated with subclinical epileptiform activity in early onset Alzheimer's disease.. <i>Brain</i> , <b>2021</b> ,	11.2	3

15	Direct evidence for prediction signals in frontal cortex independent of prediction error		2
14	Optimizing Magnetoencephalographic Imaging Estimation of Language Lateralization for Simpler Language Tasks. <i>Frontiers in Human Neuroscience</i> , <b>2020</b> , 14, 105	3.3	1
13	Concordance between interictal MEG and stereo-EEG predicts seizure freedom after epilepsy surgery. <i>Brain</i> , <b>2016</b> , 139, 2821-2823	11.2	1
12	Gustatory cortical lesions affect motivation for snack foods. <i>Cognitive Neuroscience</i> , <b>2012</b> , 3, 131-8	1.7	1
11	The utility of a federated web-based information management system in an epilepsy center. <i>Neuroinformatics</i> , <b>2004</b> , 2, 119-21	3.2	1
10	"What is the mechanism?": Cues, barriers, and opportunities to discuss foundational science during internal medicine rounds.. <i>Medical Teacher</i> , <b>2022</b> , 1-7	3	1
9	Spike-associated networks and intracranial electrographic findings. <i>Epileptic Disorders</i> , <b>2020</b> , 22, 291-299	1.9	1
8	Investigation of the risk of valproic acid-induced tremor: clinical, neuroimaging, and genetic factors. <i>Psychopharmacology</i> , <b>2021</b> , 239, 173	4.7	1
7	Clinical Validation of the Champagne Algorithm for Evoked Response Source Localization in Magnetoencephalography. <i>Brain Topography</i> , <b>2021</b> , 1	4.3	1
6	Long QT syndrome with potassium voltage-gated channel subfamily H member 2 gene mutation mimicking refractory epilepsy: case report. <i>BMC Neurology</i> , <b>2021</b> , 21, 338	3.1	1
5	Propofol: Pro- or Anticonvulsant Drug?. <i>Anesthesia and Analgesia</i> , <b>2009</b> , 108, 1994	3.9	0
4	Clinical Validation of the Champagne Algorithm for Epilepsy Spike Localization. <i>Frontiers in Human Neuroscience</i> , <b>2021</b> , 15, 642819	3.3	0
3	Quantitative analysis of phenotypic elements augments traditional electroclinical classification of common familial epilepsies. <i>Epilepsia</i> , <b>2019</b> , 60, 2194-2203	6.4	
2	073 Whole-brain network analysis of neural oscillations during light sleep. <i>Sleep</i> , <b>2021</b> , 44, A30-A31	1.1	
1	Integrated in silico and experimental assessment of disease relevance of PCDH19 missense variants. <i>Human Mutation</i> , <b>2021</b> , 42, 1030-1041	4.7	