

Catherine J Chu

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,454
citations

257450

24
h-index

223800

46
g-index

71
all docs

71
docs citations

71
times ranked

2860
citing authors

#	ARTICLE	IF	CITATIONS
1	Early detection of consciousness in patients with acute severe traumatic brain injury. <i>Brain</i> , 2017, 140, 2399-2414.	7.6	244
2	Contemporary Profile of Seizures in Neonates: A Prospective Cohort Study. <i>Journal of Pediatrics</i> , 2016, 174, 98-103.e1.	1.8	218
3	Emergence of Stable Functional Networks in Long-Term Human Electroencephalography. <i>Journal of Neuroscience</i> , 2012, 32, 2703-2713.	3.6	153
4	Profile of neonatal epilepsies. <i>Neurology</i> , 2017, 89, 893-899.	1.1	145
5	Early-Life Epilepsies and the Emerging Role of Genetic Testing. <i>JAMA Pediatrics</i> , 2017, 171, 863.	6.2	125
6	The probability of seizures during EEG monitoring in critically ill adults. <i>Clinical Neurophysiology</i> , 2015, 126, 463-471.	1.5	116
7	Physiology of functional and effective networks in epilepsy. <i>Clinical Neurophysiology</i> , 2015, 126, 227-236.	1.5	107
8	Development of Expert-Level Automated Detection of Epileptiform Discharges During Electroencephalogram Interpretation. <i>JAMA Neurology</i> , 2020, 77, 103.	9.0	94
9	Seizures in Preterm Neonates: A Multicenter Observational Cohort Study. <i>Pediatric Neurology</i> , 2017, 72, 19-24.	2.1	83
10	Delta rhythmicity is a reliable EEG biomarker in Angelman syndrome: a parallel mouse and human analysis. <i>Journal of Neurodevelopmental Disorders</i> , 2017, 9, 17.	3.1	74
11	Interrater Reliability of Experts in Identifying Interictal Epileptiform Discharges in Electroencephalograms. <i>JAMA Neurology</i> , 2020, 77, 49.	9.0	72
12	Scalp recorded spike ripples predict seizure risk in childhood epilepsy better than spikes. <i>Brain</i> , 2019, 142, 1296-1309.	7.6	60
13	The impact of hypsarrhythmia on infantile spasms treatment response: Observational cohort study from the National Infantile Spasms Consortium. <i>Epilepsia</i> , 2017, 58, 2098-2103.	5.1	55
14	Treatment Duration After Acute Symptomatic Seizures in Neonates: A Multicenter Cohort Study. <i>Journal of Pediatrics</i> , 2017, 181, 298-301.e1.	1.8	55
15	Safety of Early Discontinuation of Antiseizure Medication After Acute Symptomatic Neonatal Seizures. <i>JAMA Neurology</i> , 2021, 78, 817.	9.0	54
16	Focal Sleep Spindle Deficits Reveal Focal Thalamocortical Dysfunction and Predict Cognitive Deficits in Sleep Activated Developmental Epilepsy. <i>Journal of Neuroscience</i> , 2021, 41, 1816-1829.	3.6	45
17	Abnormal coherence and sleep composition in children with Angelman syndrome: a retrospective EEG study. <i>Molecular Autism</i> , 2018, 9, 32.	4.9	44
18	The natural history of seizures and neuropsychiatric symptoms in childhood epilepsy with centrotemporal spikes (CECTS). <i>Epilepsy and Behavior</i> , 2020, 103, 106437.	1.7	34

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19	Response to antiseizure medications in neonates with acute symptomatic seizures. <i>Epilepsia</i> , 2019, 60, e20-e24.	5.1	33
20	Robust disruptions in electroencephalogram cortical oscillations and large-scale functional networks in autism. <i>BMC Neurology</i> , 2015, 15, 97.	1.8	32
21	Local and distant responses to single pulse electrical stimulation reflect different forms of connectivity. <i>NeuroImage</i> , 2021, 237, 118094.	4.2	31
22	Comparative Effectiveness of Levetiracetam vs Phenobarbital for Infantile Epilepsy. <i>JAMA Pediatrics</i> , 2018, 172, 352.	6.2	30
23	Why West? Comparisons of clinical, genetic and molecular features of infants with and without spasms. <i>PLoS ONE</i> , 2018, 13, e0193599.	2.5	28
24	A semi-automated method for rapid detection of ripple events on interictal voltage discharges in the scalp electroencephalogram. <i>Journal of Neuroscience Methods</i> , 2017, 277, 46-55.	2.5	27
25	Immediate outcomes in early life epilepsy: A contemporary account. <i>Epilepsy and Behavior</i> , 2019, 97, 44-50.	1.7	27
26	A statistically robust EEG re-referencing procedure to mitigate reference effect. <i>Journal of Neuroscience Methods</i> , 2014, 235, 101-116.	2.5	26
27	Neuroimaging of Early Life Epilepsy. <i>Pediatrics</i> , 2018, 142, .	2.1	23
28	Delta power robustly predicts cognitive function in Angelman syndrome. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 1433-1445.	3.7	23
29	Early-life epilepsy after acute symptomatic neonatal seizures: A prospective multicenter study. <i>Epilepsia</i> , 2021, 62, 1871-1882.	5.1	23
30	High density EEG—What do we have to lose?. <i>Clinical Neurophysiology</i> , 2015, 126, 433-434.	1.5	21
31	High-Density EEG in Current Clinical Practice and Opportunities for the Future. <i>Journal of Clinical Neurophysiology</i> , 2021, 38, 112-123.	1.7	20
32	Microscale dynamics of electrophysiological markers of epilepsy. <i>Clinical Neurophysiology</i> , 2021, 132, 2916-2931.	1.5	20
33	Seizure Control in Neonates Undergoing Screening vs Confirmatory EEG Monitoring. <i>Neurology</i> , 2021, 97, e587-e596.	1.1	19
34	Comparative Effectiveness of Initial Treatment for Infantile Spasms in a Contemporary US Cohort. <i>Neurology</i> , 2021, 97, .	1.1	19
35	Initial Treatment for Nonsyndromic Early-Life Epilepsy: An Unexpected Consensus. <i>Pediatric Neurology</i> , 2017, 75, 73-79.	2.1	18
36	Dysmature superficial white matter microstructure in developmental focal epilepsy. <i>Brain Communications</i> , 2019, 1, fcz002.	3.3	18

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37	The probability of seizures during continuous EEG monitoring in high-risk neonates. <i>Epilepsia</i> , 2019, 60, 2508-2518.	5.1	17
38	Parent experience of caring for neonates with seizures. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2020, 105, 634-639.	2.8	17
39	Risk for infantile spasms after acute symptomatic neonatal seizures. <i>Epilepsia</i> , 2020, 61, 2774-2784.	5.1	16
40	Associations between Infant and Parent Characteristics and Measures of Family Well-Being in Neonates with Seizures: A Cohort Study. <i>Journal of Pediatrics</i> , 2020, 221, 64-71.e4.	1.8	15
41	Treatment of Neonatal Seizures: Comparison of Treatment Pathways From 11 Neonatal Intensive Care Units. <i>Pediatric Neurology</i> , 2022, 128, 67-74.	2.1	15
42	Persistent abnormalities in Rolandic thalamocortical white matter circuits in childhood epilepsy with centrotemporal spikes. <i>Epilepsia</i> , 2020, 61, 2500-2508.	5.1	14
43	Source EEG reveals that Rolandic epilepsy is a regional epileptic encephalopathy. <i>NeuroImage: Clinical</i> , 2022, 33, 102956.	2.7	14
44	Electrographic predictors of successful weaning from anaesthetics in refractory status epilepticus. <i>Brain</i> , 2020, 143, 1143-1157.	7.6	13
45	Characterization of Death in Infants With Neonatal Seizures. <i>Pediatric Neurology</i> , 2020, 113, 21-25.	2.1	12
46	Diazepam induced sleep spindle increase correlates with cognitive recovery in a child with epileptic encephalopathy. <i>BMC Neurology</i> , 2021, 21, 355.	1.8	10
47	The standardization debate: A conflation trap in critical care electroencephalography. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2015, 24, 52-58.	2.0	9
48	Computational Evidence for a Competitive Thalamocortical Model of Spikes and Spindle Activity in Rolandic Epilepsy. <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 680549.	2.1	9
49	Family-Centered Care for Children and Families Impacted by Neonatal Seizures: Advice From Parents. <i>Pediatric Neurology</i> , 2021, 124, 26-32.	2.1	9
50	Extreme delta brush evolving into status epilepticus in a patient with anti-NMDA encephalitis. <i>Epilepsy & Behavior Case Reports</i> , 2017, 7, 69-71.	1.5	8
51	Timing matters: Impact of anticonvulsant drug treatment and spikes on seizure risk in benign epilepsy with centrotemporal spikes. <i>Epilepsia Open</i> , 2018, 3, 409-417.	2.4	8
52	Application of a convolutional neural network for fully-automated detection of spike ripples in the scalp electroencephalogram. <i>Journal of Neuroscience Methods</i> , 2021, 360, 109239.	2.5	7
53	Inequities in Therapy for Infantile Spasms: A Call to Action. <i>Annals of Neurology</i> , 2022, 92, 32-44.	5.3	7
54	Beta oscillations in the sensorimotor cortex correlate with disease and remission in benign epilepsy with centrotemporal spikes. <i>Brain and Behavior</i> , 2019, 9, e01237.	2.2	5

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55	Longitudinal EEG model detects antisense oligonucleotide treatment effect and increased UBE3A in Angelman syndrome. <i>Brain Communications</i> , 2022, 4, .	3.3	5
56	Power laws and fragility in flow networks. <i>Social Networks</i> , 2013, 35, 116-123.	2.1	4
57	Lesion-Constrained Electrical Source Imaging. <i>Journal of Clinical Neurophysiology</i> , 2020, 37, 79-86.	1.7	3
58	Characteristics of Neonates with Cardiopulmonary Disease Who Experience Seizures: A Multicenter Study. <i>Journal of Pediatrics</i> , 2022, 242, 63-73.	1.8	3
59	A Multimodal Imaging- and Stimulation-based Method of Evaluating Connectivity-related Brain Excitability in Patients with Epilepsy. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	2
60	Seizure Severity and Treatment Response in Newborn Infants with Seizures Attributed to Intracranial Hemorrhage. <i>Journal of Pediatrics</i> , 2021, , .	1.8	2
61	Impact of COVID-19 Pandemic on Developmental Service Delivery in Children With a History of Neonatal Seizures. <i>Pediatric Neurology</i> , 2022, 129, 14-18.	2.1	2
62	Spike ripples in striatum correlate with seizure risk in two mouse models. <i>Epilepsy and Behavior Reports</i> , 2022, 18, 100529.	1.0	2
63	Parent Mental Health and Family Coping over Two Years after the Birth of a Child with Acute Neonatal Seizures. <i>Children</i> , 2022, 9, 2.	1.5	2
64	Transient, developmental functional and structural connectivity abnormalities in the thalamocortical motor network in Rolandic epilepsy. <i>NeuroImage: Clinical</i> , 2022, 35, 103102.	2.7	2
65	Quick and accurate quantification of the premature brain. <i>Clinical Neurophysiology</i> , 2016, 127, 2908-2909.	1.5	0
66	Targeting high frequency oscillations in epilepsy. <i>Clinical Neurophysiology</i> , 2018, 129, 1307-1308.	1.5	0
67	Child Neurology: Intractable Epilepsy and Transient Deficits in a Patient With a History of Herpes Simplex Virus Encephalitis. <i>Neurology</i> , 2021, 96, 679-681.	1.1	0
68	Teaching NeuroImage: Increasing SPECTations for Ictal SPECT in Epilepsy Surgical Evaluation. <i>Neurology</i> , 2021, 97, e647-e648.	1.1	0