Catherine J Chu

List of Publications by Year
in descending order

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	Treatment of Neonatal Seizures: Comparison of Treatment Pathways From 11 Neonatal Intensive Care Units. Pediatric Neurology, 2022, 128, 67-74.	2.1	15
2	Characteristics of Neonates with Cardiopulmonary Disease Who Experience Seizures: A Multicenter Study. Journal of Pediatrics, 2022, 242, 63-73.	1.8	3
3	Impact of COVID-19 Pandemic on Developmental Service Delivery in Children With a History of Neonatal Seizures. Pediatric Neurology, 2022, 129, 14-18.	2.1	2
4	Source EEG reveals that Rolandic epilepsy is a regional epileptic encephalopathy. NeuroImage: Clinical, 2022, 33, 102956.	2.7	14
5	Spike ripples in striatum correlate with seizure risk in two mouse models. Epilepsy and Behavior Reports, 2022, 18, 100529.	1.0	2
6	Inequities in Therapy for Infantile Spasms: A Call to Action. Annals of Neurology, 2022, 92, 32-44.	5.3	7
7	Parent Mental Health and Family Coping over Two Years after the Birth of a Child with Acute Neonatal Seizures. Children, 2022, 9, 2.	1.5	2
8	Longitudinal EEG model detects antisense oligonucleotide treatment effect and increased UBE3A in Angelman syndrome. Brain Communications, 2022, 4, .	3.3	5
9	Transient, developmental functional and structural connectivity abnormalities in the thalamocortical motor network in Rolandic epilepsy. NeuroImage: Clinical, 2022, 35, 103102.	2.7	2
10	Child Neurology: Intractable Epilepsy and Transient Deficits in a Patient With a History of Herpes Simplex Virus Encephalitis. Neurology, 2021, 96, 679-681.	1.1	0
11	High-Density EEG in Current Clinical Practice and Opportunities for the Future. Journal of Clinical Neurophysiology, 2021, 38, 112-123.	1.7	20
12	Teaching NeuroImage: Increasing SPECTations for Ictal SPECT in Epilepsy Surgical Evaluation. Neurology, 2021, 97, e647-e648.	1.1	0
13	Delta power robustly predicts cognitive function in Angelman syndrome. Annals of Clinical and Translational Neurology, 2021, 8, 1433-1445.	3.7	23
14	Seizure Control in Neonates Undergoing Screening vs Confirmatory EEG Monitoring. Neurology, 2021, 97, e587-e596.	1.1	19
15	Computational Evidence for a Competitive Thalamocortical Model of Spikes and Spindle Activity in Rolandic Epilepsy. Frontiers in Computational Neuroscience, 2021, 15, 680549.	2.1	9
16	Comparative Effectiveness of Initial Treatment for Infantile Spasms in a Contemporary US Cohort. Neurology, 2021, 97, .	1.1	19
17	Safety of Early Discontinuation of Antiseizure Medication After Acute Symptomatic Neonatal Seizures. JAMA Neurology, 2021, 78, 817.	9.0	54
18	Earlyâ€life epilepsy after acute symptomatic neonatal seizures: A prospective multicenter study. Epilepsia, 2021, 62, 1871-1882.	5.1	23

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19	Application of a convolutional neural network for fully-automated detection of spike ripples in the scalp electroencephalogram. Journal of Neuroscience Methods, 2021, 360, 109239.	2.5	7
20	Local and distant responses to single pulse electrical stimulation reflect different forms of connectivity. NeuroImage, 2021, 237, 118094.	4.2	31
21	Microscale dynamics of electrophysiological markers of epilepsy. Clinical Neurophysiology, 2021, 132, 2916-2931.	1.5	20
22	Diazepam induced sleep spindle increase correlates with cognitive recovery in a child with epileptic encephalopathy. BMC Neurology, 2021, 21, 355.	1.8	10
23	Family-Centered Care for Children and Families Impacted by Neonatal Seizures: Advice From Parents. Pediatric Neurology, 2021, 124, 26-32.	2.1	9
24	Focal Sleep Spindle Deficits Reveal Focal Thalamocortical Dysfunction and Predict Cognitive Deficits in Sleep Activated Developmental Epilepsy. Journal of Neuroscience, 2021, 41, 1816-1829.	3.6	45
25	Seizure Severity and Treatment Response in Newborn Infants with Seizures Attributed to Intracranial Hemorrhage. Journal of Pediatrics, 2021, , .	1.8	2
26	The natural history of seizures and neuropsychiatric symptoms in childhood epilepsy with centrotemporal spikes (CECTS). Epilepsy and Behavior, 2020, 103, 106437.	1.7	34
27	Development of Expert-Level Automated Detection of Epileptiform Discharges During Electroencephalogram Interpretation. JAMA Neurology, 2020, 77, 103.	9.0	94
28	Interrater Reliability of Experts in Identifying Interictal Epileptiform Discharges in Electroencephalograms. JAMA Neurology, 2020, 77, 49.	9.0	72
29	Lesion-Constrained Electrical Source Imaging. Journal of Clinical Neurophysiology, 2020, 37, 79-86.	1.7	3
30	Risk for infantile spasms after acute symptomatic neonatal seizures. Epilepsia, 2020, 61, 2774-2784.	5.1	16
31	Characterization of Death in Infants With Neonatal Seizures. Pediatric Neurology, 2020, 113, 21-25.	2.1	12
32	Persistent abnormalities in Rolandic thalamocortical white matter circuits in childhood epilepsy with centrotemporal spikes. Epilepsia, 2020, 61, 2500-2508.	5.1	14
33	Associations between Infant and Parent Characteristics and Measures of Family Well-Being in Neonates with Seizures: A Cohort Study. Journal of Pediatrics, 2020, 221, 64-71.e4.	1.8	15
34	Parent experience of caring for neonates with seizures. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2020, 105, 634-639.	2.8	17
35	Electrographic predictors of successful weaning from anaesthetics in refractory status epilepticus. Brain, 2020, 143, 1143-1157.	7.6	13
36	Dysmature superficial white matter microstructure in developmental focal epilepsy. Brain Communications, 2019, 1, fcz002.	3.3	18

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37	Immediate outcomes in early life epilepsy: A contemporary account. Epilepsy and Behavior, 2019, 97, 44-50.	1.7	27
38	Scalp recorded spike ripples predict seizure risk in childhood epilepsy better than spikes. Brain, 2019, 142, 1296-1309.	7.6	60
39	Response to antiseizure medications in neonates with acute symptomatic seizures. Epilepsia, 2019, 60, e20-e24.	5.1	33
40	Beta oscillations in the sensorimotor cortex correlate with disease and remission in benign epilepsy with centrotemporal spikes. Brain and Behavior, 2019, 9, e01237.	2.2	5
41	The probability of seizures during continuous EEG monitoring in highâ€risk neonates. Epilepsia, 2019, 60, 2508-2518.	5.1	17
42	Targeting high frequency oscillations in epilepsy. Clinical Neurophysiology, 2018, 129, 1307-1308.	1.5	0
43	Comparative Effectiveness of Levetiracetam vs Phenobarbital for Infantile Epilepsy. JAMA Pediatrics, 2018, 172, 352.	6.2	30
44	Timing matters: Impact of anticonvulsant drug treatment and spikes on seizure risk in benign epilepsy with centrotemporal spikes. Epilepsia Open, 2018, 3, 409-417.	2.4	8
45	Abnormal coherence and sleep composition in children with Angelman syndrome: a retrospective EEG study. Molecular Autism, 2018, 9, 32.	4.9	44
46	Neuroimaging of Early Life Epilepsy. Pediatrics, 2018, 142, .	2.1	23
47	Why West? Comparisons of clinical, genetic and molecular features of infants with and without spasms. PLoS ONE, 2018, 13, e0193599.	2.5	28
48	Seizures in Preterm Neonates: A Multicenter Observational Cohort Study. Pediatric Neurology, 2017, 72, 19-24.	2.1	83
49	Delta rhythmicity is a reliable EEG biomarker in Angelman syndrome: a parallel mouse and human analysis. Journal of Neurodevelopmental Disorders, 2017, 9, 17.	3.1	74
50	A semi-automated method for rapid detection of ripple events on interictal voltage discharges in the scalp electroencephalogram. Journal of Neuroscience Methods, 2017, 277, 46-55.	2.5	27
51	Early detection of consciousness in patients with acute severe traumatic brain injury. Brain, 2017, 140, 2399-2414.	7.6	244
52	Profile of neonatal epilepsies. Neurology, 2017, 89, 893-899.	1.1	145
53	Early-Life Epilepsies and the Emerging Role of Genetic Testing. JAMA Pediatrics, 2017, 171, 863.	6.2	125
54	The impact of hypsarrhythmia on infantile spasms treatment response: Observational cohort study from the National Infantile Spasms Consortium. Epilepsia, 2017, 58, 2098-2103.	5.1	55

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55	Initial Treatment for Nonsyndromic Early-Life Epilepsy: An Unexpected Consensus. Pediatric Neurology, 2017, 75, 73-79.	2.1	18
56	Treatment Duration After Acute Symptomatic Seizures in Neonates: A Multicenter Cohort Study. Journal of Pediatrics, 2017, 181, 298-301.e1.	1.8	55
57	Extreme delta brush evolving into status epilepticus in a patient with anti-NMDA encephalitis. Epilepsy & Behavior Case Reports, 2017, 7, 69-71.	1.5	8
58	Quick and accurate quantification of the premature brain. Clinical Neurophysiology, 2016, 127, 2908-2909.	1.5	0
59	Contemporary Profile of Seizures in Neonates: A Prospective Cohort Study. Journal of Pediatrics, 2016, 174, 98-103.e1.	1.8	218
60	A Multimodal Imaging- and Stimulation-based Method of Evaluating Connectivity-related Brain Excitability in Patients with Epilepsy. Journal of Visualized Experiments, 2016, , .	0.3	2
61	High density EEGâ€"What do we have to lose?. Clinical Neurophysiology, 2015, 126, 433-434.	1.5	21
62	The probability of seizures during EEG monitoring in critically ill adults. Clinical Neurophysiology, 2015, 126, 463-471.	1.5	116
63	The standardization debate: A conflation trap in critical care electroencephalography. Seizure: the Journal of the British Epilepsy Association, 2015, 24, 52-58.	2.0	9
64	Robust disruptions in electroencephalogram cortical oscillations and large-scale functional networks in autism. BMC Neurology, 2015, 15, 97.	1.8	32
65	Physiology of functional and effective networks in epilepsy. Clinical Neurophysiology, 2015, 126, 227-236.	1.5	107
66	A statistically robust EEG re-referencing procedure to mitigate reference effect. Journal of Neuroscience Methods, 2014, 235, 101-116.	2.5	26
67	Power laws and fragility in flow networks. Social Networks, 2013, 35, 116-123.	2.1	4
68	Emergence of Stable Functional Networks in Long-Term Human Electroencephalography. Journal of Neuroscience, 2012, 32, 2703-2713.	3.6	153