

# Edward Novotny Jr

## List of Publications by Year in descending order

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119  
papers

8,192  
citations

71061

41  
h-index

49868

87  
g-index

123  
all docs

123  
docs citations

123  
times ranked

9746  
citing authors

#	ARTICLE	IF	CITATIONS
1	De novo mutations in epileptic encephalopathies. <i>Nature</i> , 2013, 501, 217-221.	13.7	1,351
2	Lactate rise detected by <sup>1</sup> H NMR in human visual cortex during physiologic stimulation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 5829-5831.	3.3	553
3	De Novo Mutations in Synaptic Transmission Genes Including DNMT1 Cause Epileptic Encephalopathies. <i>American Journal of Human Genetics</i> , 2014, 95, 360-370.	2.6	388
4	Simultaneous Determination of the Rates of the TCA Cycle, Glucose Utilization, $\pm$ -Ketoglutarate/Glutamate Exchange, and Glutamine Synthesis in Human Brain by NMR. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1995, 15, 12-25.	2.4	307
5	Positive and Negative Network Correlations in Temporal Lobe Epilepsy. <i>Cerebral Cortex</i> , 2004, 14, 892-902.	1.6	297
6	Dynamic Time Course of Typical Childhood Absence Seizures: EEG, Behavior, and Functional Magnetic Resonance Imaging. <i>Journal of Neuroscience</i> , 2010, 30, 5884-5893.	1.7	267
7	Association of <i>MTOR</i> Mutations With Developmental Brain Disorders, Including Megalencephaly, Focal Cortical Dysplasia, and Pigmentary Mosaicism. <i>JAMA Neurology</i> , 2016, 73, 836.	4.5	234
8	Localized <sup>13</sup> C NMR Spectroscopy in the Human Brain of Amino Acid Labeling from <sup>13</sup> C]Glucose. <i>Journal of Neurochemistry</i> , 1994, 63, 1377-1385.	2.1	229
9	Direct measurement of brain glucose concentrations in humans by <sup>13</sup> C NMR spectroscopy.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 1109-1112.	3.3	212
10	Predictors of Intractable Epilepsy in Childhood: A Case-Control Study. <i>Epilepsia</i> , 1996, 37, 24-30.	2.6	196
11	Ultra-rare genetic variation in common epilepsies: a case-control sequencing study. <i>Lancet Neurology</i> , The, 2017, 16, 135-143.	4.9	190
12	Centrottemporal sharp wave EEG trait in rolandic epilepsy maps to Elongator Protein Complex 4 (ELP4). <i>European Journal of Human Genetics</i> , 2009, 17, 1171-1181.	1.4	176
13	Aspartame: Review of Safety. <i>Regulatory Toxicology and Pharmacology</i> , 2002, 35, S1-S93.	1.3	171
14	<sup>1</sup> H-[ <sup>13</sup> C] NMR measurements of [4- <sup>13</sup> C]glutamate turnover in human brain.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 9603-9606.	3.3	157
15	Impaired attention and network connectivity in childhood absence epilepsy. <i>NeuroImage</i> , 2011, 56, 2209-2217.	2.1	153
16	Simultaneous EEG, fMRI, and behavior in typical childhood absence seizures. <i>Epilepsia</i> , 2010, 51, 2011-2022.	2.6	138
17	Magnetic resonance spectroscopy of neurotransmitters in human brain. <i>Annals of Neurology</i> , 2003, 54, S25-S31.	2.8	126
18	Localizing Value of Ictal-Interictal SPECT Analyzed by SPM (ISAS). <i>Epilepsia</i> , 2005, 46, 1450-1464.	2.6	126

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19	Early-Life Epilepsies and the Emerging Role of Genetic Testing. <i>JAMA Pediatrics</i> , 2017, 171, 863.	3.3	125
20	Hypothalamic hamartomas: seven cases and review of the literature. <i>Epilepsy and Behavior</i> , 2003, 4, 246-258.	0.9	112
21	Succinic semialdehyde dehydrogenase deficiency in children and adults. <i>Annals of Neurology</i> , 2003, 54, S73-S80.	2.8	108
22	Functional MRI connectivity as a predictor of the surgical outcome of epilepsy. <i>Epilepsia</i> , 2011, 52, 1733-1740.	2.6	108
23	Localized <sup>1</sup> H NMR measurement of glucose consumption in the human brain during visual stimulation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 9896-9900.	3.3	92
24	Proton Magnetic Resonance Spectroscopy: An Emerging Technology in Pediatric Neurology Research. <i>Pediatric Research</i> , 1998, 44, 1-10.	1.1	91
25	Differentiation of Glucose Transport in Human Brain Gray and White Matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 483-492.	2.4	90
26	<sup>1</sup> H NMR Studies of Glucose Transport in the Human Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 427-438.	2.4	89
27	Frontal Lobe Tumoral Epilepsy: Clinical, Neurophysiologic Features and Predictors of Surgical Outcome. <i>Epilepsia</i> , 2002, 43, 727-733.	2.6	85
28	Interictal spikes on intracranial recording: Behavior, physiology, and implications. <i>Epilepsia</i> , 2008, 49, 1881-1892.	2.6	85
29	Inherited disorders of neurotransmitters in children and adults. <i>Clinical Biochemistry</i> , 2005, 38, 1051-1058.	0.8	80
30	In Vivo Measurement of Phenylalanine in Human Brain by Proton Nuclear Magnetic Resonance Spectroscopy. <i>Pediatric Research</i> , 1995, 37, 244-249.	1.1	65
31	Localized <sup>1</sup> H NMR spectra of glutamate in the human brain. <i>Magnetic Resonance in Medicine</i> , 1992, 25, 94-106.	1.9	62
32	Copy number variant analysis from exome data in 349 patients with epileptic encephalopathy. <i>Annals of Neurology</i> , 2015, 78, 323-328.	2.8	59
33	Response to second treatment after initial failed treatment in a multicenter prospective infantile spasms cohort. <i>Epilepsia</i> , 2016, 57, 1834-1842.	2.6	58
34	Estimating Tissue Deformation between Functional Images Induced by Intracranial Electrode Implantation Using Anatomical MRI. <i>NeuroImage</i> , 2001, 13, 561-576.	2.1	57
35	Detection and assignment of the glucose signal in <sup>1</sup> h nmr difference spectra of the human brain. <i>Magnetic Resonance in Medicine</i> , 1992, 27, 183-188.	1.9	53
36	Cerebral Lactate Turnover after Electroshock: In vivo Measurements by <sup>1</sup> H/ <sup>13</sup> C Magnetic Resonance Spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1992, 12, 1022-1029.	2.4	51

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37	Stereotactic laser ablation for hypothalamic and deep intraventricular lesions. <i>Neurosurgical Focus</i> , 2016, 41, E10.	1.0	50
38	Localized <sup>13</sup> C NMR spectroscopy of myo-inositol in the human brain in vivo. <i>Magnetic Resonance in Medicine</i> , 1992, 25, 204-210.	1.9	48
39	Is postresective intraoperative electrocorticography predictive of seizure outcomes in children?. <i>Journal of Neurosurgery: Pediatrics</i> , 2012, 9, 546-551.	0.8	47
40	Local Functional Connectivity as a Pre-Surgical Tool for Seizure Focus Identification in Non-Lesion, Focal Epilepsy. <i>Frontiers in Neurology</i> , 2013, 4, 43.	1.1	44
41	Proton NMR Observation of Phenylalanine and an Aromatic Metabolite in the Rabbit Brain in Vivo. <i>Pediatric Research</i> , 1990, 27, 566-570.	1.1	42
42	In vivo <sup>31</sup> P and in vitro <sup>1</sup> H nuclear magnetic resonance study of hypoglycemia during neonatal seizure. <i>Annals of Neurology</i> , 1987, 22, 622-628.	2.8	41
43	Measurement of ethanol in the human brain using NMR spectroscopy.. <i>Journal of Studies on Alcohol and Drugs</i> , 1990, 51, 104-107.	2.4	40
44	The Epilepsy Phenome/Genome Project. <i>Clinical Trials</i> , 2013, 10, 568-586.	0.7	40
45	Chronic hypoxia in development selectively alters the activities of key enzymes of glucose oxidative metabolism in brain regions. <i>Neurochemical Research</i> , 2003, 28, 933-940.	1.6	38
46	Lamotrigine Therapy of Epilepsy with Angelman's Syndrome. <i>Epilepsia</i> , 2007, 48, 593-596.	2.6	35
47	Growth Hormone Releasing Hormone Effects on Brain <sup>3</sup> -Aminobutyric Acid Levels in Mild Cognitive Impairment and Healthy Aging. <i>JAMA Neurology</i> , 2013, 70, 883.	4.5	35
48	Ictal EEG Changes with Corpus Callosum Section. <i>Epilepsia</i> , 1993, 34, 568-573.	2.6	31
49	Comparative Effectiveness of Levetiracetam vs Phenobarbital for Infantile Epilepsy. <i>JAMA Pediatrics</i> , 2018, 172, 352.	3.3	30
50	Expanding clinical phenotype in <i>CACNA1C</i> related disorders: From neonatal onset severe epileptic encephalopathy to late onset epilepsy. <i>American Journal of Medical Genetics, Part A</i> , 2018, 176, 2733-2739.	0.7	30
51	In Vivo Measurements of Ethanol Concentration in Rabbit Brain by <sup>1</sup> H Magnetic Resonance Spectroscopy. <i>Journal of Neurochemistry</i> , 1990, 54, 1188-1195.	2.1	29
52	Direct carbon versus proton heteronuclear editing of <sup>13</sup> C ethanol in rabbit brain in vivo : A sensitivity comparison. <i>Magnetic Resonance in Medicine</i> , 1990, 16, 431-443.	1.9	29
53	GABA Changes with Vigabatrin in the Developing Human Brain. <i>Epilepsia</i> , 1999, 40, 462-466.	2.6	28
54	Magnetic Resonance Spectroscopy in Epilepsy: Clinical Issues. <i>Epilepsia</i> , 2002, 43, 32-39.	2.6	28

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55	Multimodality localization of the sensorimotor cortex in pediatric patients undergoing epilepsy surgery. <i>Journal of Neurosurgery: Pediatrics</i> , 2012, 10, 1-6.	0.8	28
56	Impact of epilepsy surgery on development of preschool children: identification of a cohort likely to benefit from early intervention. <i>Journal of Neurosurgery: Pediatrics</i> , 2015, 16, 383-392.	0.8	27
57	The Effect of Diazepam on Neonatal Seizure: In Vivo 31P and 1H NMR Study. <i>Pediatric Research</i> , 1989, 25, 27-31.	1.1	26
58	In vivo lactate and $\hat{1}^2$ -hydroxybutyrate editing using a pure-phase refocusing pulse train. <i>Magnetic Resonance in Medicine</i> , 1998, 40, 783-788.	1.9	26
59	Functional Magnetic Resonance Imaging Identifies Abnormal Visual Cortical Function in Patients with Occipital Lobe Epilepsy. <i>Epilepsia</i> , 1999, 40, 1248-1253.	2.6	26
60	Levetiracetam Efficacy in Refractory Partial-onset Seizures, Especially after Failed Epilepsy Surgery. <i>Epilepsia</i> , 2003, 44, 211-214.	2.6	25
61	Profiling PI3K-AKT-MTOR variants in focal brain malformations reveals new insights for diagnostic care. <i>Brain</i> , 2022, 145, 925-938.	3.7	25
62	Background intracranial EEG spectral changes with anti-epileptic drug taper. <i>Clinical Neurophysiology</i> , 2010, 121, 311-317.	0.7	24
63	Neuroimaging of Early Life Epilepsy. <i>Pediatrics</i> , 2018, 142, .	1.0	23
64	Reference values for long echo time MR spectroscopy in healthy adults. <i>American Journal of Neuroradiology</i> , 2005, 26, 1439-45.	1.2	23
65	A novel approach for selective brain cooling: implications for hypercapnia and seizure activity. <i>Intensive Care Medicine</i> , 2004, 30, 1829-1833.	3.9	22
66	Spatial distribution of intracranially recorded spikes in medial and lateral temporal epilepsies. <i>Epilepsia</i> , 2009, 50, 2575-2585.	2.6	22
67	Laser Ablation Therapy for Pediatric Patients with Intracranial Lesions in Eloquent Areas. <i>World Neurosurgery</i> , 2019, 121, e191-e199.	0.7	21
68	Outcome of coma in children. <i>Current Opinion in Pediatrics</i> , 2003, 15, 283-287.	1.0	20
69	Comparison of subdural and subgaleal recordings of cortical high-gamma activity in humans. <i>Clinical Neurophysiology</i> , 2016, 127, 277-284.	0.7	20
70	Brain regional development of the activity of $\hat{1}^{\pm}$ -ketoglutarate dehydrogenase complex in the rat. <i>Developmental Brain Research</i> , 2000, 125, 139-145.	2.1	17
71	Proton magnetic resonance spectroscopy: Clinical applications in children with nervous system diseases. <i>Seminars in Pediatric Neurology</i> , 1999, 6, 68-77.	1.0	16
72	Differential increase in cerebral cortical glucose oxidative metabolism during rat postnatal development is greater in vivo than in vitro. <i>Brain Research</i> , 2001, 888, 193-202.	1.1	16

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73	The Genetics of Reading Disability in an Often Excluded Sample: Novel Loci Suggested for Reading Disability in Rolandic Epilepsy. <i>PLoS ONE</i> , 2012, 7, e40696.	1.1	16
74	Corticospinal tract atrophy and motor fMRI predict motor preservation after functional cerebral hemispherectomy. <i>Journal of Neurosurgery: Pediatrics</i> , 2018, 21, 81-89.	0.8	16
75	Comparison of Digital and Conventional EEG Interpretation. <i>Journal of Clinical Neurophysiology</i> , 1998, 15, 476-480.	0.9	16
76	Association of guideline publication and delays to treatment in pediatric status epilepticus. <i>Neurology</i> , 2020, 95, e1222-e1235.	1.5	15
77	Non-Invasive Measurements of the Cerebral Steady-State Glucose Concentration and Transport in Humans by <sup>13</sup> C Nuclear Magnetic Resonance. <i>Advances in Experimental Medicine and Biology</i> , 1993, 331, 35-40.	0.8	15
78	<sup>1</sup> H nuclear magnetic resonance spectroscopy study of neonatal hypoglycemia. <i>Pediatric Neurology</i> , 1988, 4, 31-34.	1.0	14
79	Overview-the role of NMR spectroscopy in epilepsy. <i>Magnetic Resonance Imaging</i> , 1995, 13, 1171-1173.	1.0	14
80	Positron Emission Tomography in Rasmussen's Encephalitis. <i>Pediatric Neurology</i> , 2007, 36, 112-114.	1.0	14
81	A decrease in EEG energy accompanies anti-epileptic drug taper during intracranial monitoring. <i>Epilepsy Research</i> , 2009, 86, 153-162.	0.8	14
82	Preserved interhemispheric functional connectivity in a case of corpus callosum agenesis. <i>Neuroradiology</i> , 2012, 54, 177-179.	1.1	14
83	Regional Patterns of Cortical Phase Synchrony in the Resting State. <i>Brain Connectivity</i> , 2016, 6, 470-481.	0.8	14
84	First-line medication dosing in pediatric refractory status epilepticus. <i>Neurology</i> , 2020, 95, e2683-e2696.	1.5	14
85	Neonatal Excitotoxic Brain Injury. <i>Developmental Neuroscience</i> , 1990, 12, 210-220.	1.0	12
86	Diverse genetic causes of polymicrogyria with epilepsy. <i>Epilepsia</i> , 2021, 62, 973-983.	2.6	12
87	The Role of Clinical Neurophysiology in the Management of Epilepsy. <i>Journal of Clinical Neurophysiology</i> , 1998, 15, 96-108.	0.9	11
88	Klippel-Feil Sequence and Sleep-disordered Breathing in Two Children. <i>The American Review of Respiratory Disease</i> , 1993, 147, 202-204.	2.9	10
89	Tract-Based Spatial Statistical Analysis of Diffusion Tensor Imaging in Pediatric Patients with Mitochondrial Disease: Widespread Reduction in Fractional Anisotropy of White Matter Tracts. <i>American Journal of Neuroradiology</i> , 2012, 33, 1726-1730.	1.2	10
90	Evidence for linkage of migraine in Rolandic epilepsy to known 1q23 <scp>FHM2</scp> and novel 17q22 genetic loci. <i>Genes, Brain and Behavior</i> , 2014, 13, 333-340.	1.1	10

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91	Super-Refractory Status Epilepticus in Children. <i>Pediatric Critical Care Medicine</i> , 2021, Publish Ahead of Print, e613-e625.	0.2	10
92	Changes in resting-state connectivity in pediatric temporal lobe epilepsy. <i>Journal of Neurosurgery: Pediatrics</i> , 2018, 22, 270-275.	0.8	9
93	Freehand placement of depth electrodes using electromagnetic frameless stereotactic guidance. <i>Journal of Neurosurgery: Pediatrics</i> , 2011, 8, 464-467.	0.8	8
94	Tissue localization during resective epilepsy surgery. <i>Neurosurgical Focus</i> , 2013, 34, E8.	1.0	8
95	Awake Mapping of the Auditory Cortex during Tumor Resection in an Aspiring Musical Performer: A Case Report. <i>Pediatric Neurosurgery</i> , 2020, 55, 351-358.	0.4	8
96	Factors associated with long-term outcomes in pediatric refractory status epilepticus. <i>Epilepsia</i> , 2021, 62, 2190-2204.	2.6	8
97	Association of ultra-rare coding variants with genetic generalized epilepsy: A case-control whole exome sequencing study. <i>Epilepsia</i> , 2022, 63, 723-735.	2.6	8
98	Application of rare variant transmission disequilibrium tests to epileptic encephalopathy trio sequence data. <i>European Journal of Human Genetics</i> , 2017, 25, 894-899.	1.4	7
99	Early genetic testing for neonatal epilepsy. <i>Neurology</i> , 2017, 89, 880-881.	1.5	7
100	Current Status of Continuous Electroencephalographic Monitoring in Critically Ill Children. <i>Pediatric Neurology</i> , 2019, 101, 11-17.	1.0	6
101	Benzodiazepine administration patterns before escalation to second-line medications in pediatric refractory convulsive status epilepticus. <i>Epilepsia</i> , 2021, 62, 2766-2777.	2.6	6
102	The Brain in Partial Trisomy 18: A Case Report. <i>Journal of Child Neurology</i> , 1987, 2, 194-197.	0.7	4
103	Epilepsy surgery after treatment of pediatric malignant brain tumors. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2012, 21, 624-630.	0.9	4
104	Preservation of electrophysiological functional connectivity after partial corpus callosotomy: case report. <i>Journal of Neurosurgery: Pediatrics</i> , 2018, 22, 214-219.	0.8	4
105	The onset of pediatric refractory status epilepticus is not distributed uniformly during the day. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2019, 70, 90-96.	0.9	4
106	Structural MRI and tract-based spatial statistical analysis of diffusion tensor imaging in children with hemimegalencephaly. <i>Neuroradiology</i> , 2020, 62, 1467-1474.	1.1	3
107	A clinically applicable functional MRI memory paradigm for use with pediatric patients. <i>Epilepsy and Behavior</i> , 2022, 126, 108461.	0.9	3
108	The Effect of Hypoglycemia on Brain Blood Flow and Brain Energy State During Neonatal Seizure. <i>Annals of the New York Academy of Sciences</i> , 1987, 508, 494-496.	1.8	2

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109	Epileptic Syndromes and Seizures in Infants. <i>Seminars in Neurology</i> , 1990, 10, 366-379.	0.5	1
110	Electrocorticography and the early maturation of high-frequency suppression within the default mode network. <i>Journal of Neurosurgery: Pediatrics</i> , 2018, 21, 133-140.	0.8	1
111	Neuropsychology's Contributions to a Pediatric Epilepsy Surgery Team. , 2019, , 189-208.		1
112	Electrocorticography to Investigate Age-Related Brain Lateralization on Pediatric Motor Inhibition. <i>Frontiers in Neurology</i> , 2022, 13, 747053.	1.1	1
113	Precision medicine in pediatric temporal epilepsy surgery: optimization of outcomes through functional MRI memory tasks and tailored surgeries. <i>Journal of Neurosurgery: Pediatrics</i> , 2022, , 1-12.	0.8	1
114	A two-year-old girl with acute onset of seizures and progressive encephalopathy. <i>Current Opinion in Pediatrics</i> , 1997, 9, 558-564.	1.0	0
115	Microscopic brain structure revisited in genetic epilepsy. <i>Neurology</i> , 2015, 84, 1290-1291.	1.5	0
116	Time to Treatment in Pediatric Convulsive Refractory Status Epilepticus: The Weekend Effect. <i>Pediatric Neurology</i> , 2021, 120, 71-79.	1.0	0
117	NEONATAL BRAIN INJURY. <i>Journal of Clinical Neurophysiology</i> , 1999, 16, 185.	0.9	0
118	Seventeen-Year-Old Female With History of Depression Presented With Mania and Enuresis. <i>Pediatrics</i> , 2022, 149, .	1.0	0
119	Use of Continuous EEG Monitoring and Short-Term Outcomes in Critically Ill Children. <i>Journal of Pediatric Intensive Care</i> , 0, , .	0.4	0