

Carl E Stafstrom

List of Publications by Year in descending order

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Version: 2024-02-01

124
papers

5,366
citations

76326

40
h-index

91884

69
g-index

130
all docs

130
docs citations

130
times ranked

5838
citing authors

#	ARTICLE	IF	CITATIONS
1	Seizures and Epilepsy: An Overview for Neuroscientists. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a022426-a022426.	6.2	486
2	2-Deoxy-D-glucose reduces epilepsy progression by NRSF-CtBPâ€‘dependent metabolic regulation of chromatin structure. Nature Neuroscience, 2006, 9, 1382-1387.	14.8	412
3	The Ketogenic Diet as a Treatment Paradigm for Diverse Neurological Disorders. Frontiers in Pharmacology, 2012, 3, 59.	3.5	347
4	Age-Dependent Cognitive and Behavioral Deficits After Kainic Acid Seizures. Epilepsia, 1993, 34, 420-432.	5.1	246
5	Persistent Sodium Current and Its Role in Epilepsy. Epilepsy Currents, 2007, 7, 15-22.	0.8	204
6	l-Carnitine Supplementation in Childhood Epilepsy: Current Perspectives. Epilepsia, 1998, 39, 1216-1225.	5.1	172
7	Anticonvulsant and antiepileptic actions of 2â€‘deoxyâ€‘glucose in epilepsy models. Annals of Neurology, 2009, 65, 435-447.	5.3	143
8	Phenobarbital modifies seizure-related brain injury in the developing brain. Annals of Neurology, 1994, 36, 425-433.	5.3	136
9	Ketogenic Diet: Effects on Expression of Kindled Seizures and Behavior in Adult Rats. Epilepsia, 1997, 38, 750-758.	5.1	129
10	Do ketone bodies mediate the anti-seizure effects of the ketogenic diet?. Neuropharmacology, 2018, 133, 233-241.	4.1	111
11	Epilepsy: A Review of Selected Clinical Syndromes and Advances in Basic Science. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 983-1004.	4.3	109
12	The Usefulness of Children's Drawings in the Diagnosis of Headache. Pediatrics, 2002, 109, 460-472.	2.1	103
13	The Role of the Subiculum in Epilepsy and Epileptogenesis. Epilepsy Currents, 2005, 5, 121-129.	0.8	87
14	INFANTILE SPASMS IN CHILDREN WITH DOWN SYNDROME. Developmental Medicine and Child Neurology, 1994, 36, 576-585.	2.1	86
15	Cognition and brain development in children with benign epilepsy with centrotemporal spikes. Epilepsia, 2015, 56, 1615-1622.	5.1	83
16	Girls and Boys Born before 28â€‘Weeks Gestation: Risks of Cognitive, Behavioral, and Neurologic Outcomes at Age 10â€‘Years. Journal of Pediatrics, 2016, 173, 69-75.e1.	1.8	78
17	Multiple Kainic Acid Seizures in the Immature and Adult Brain: Ictal Manifestations and Longâ€‘Term Effects on Learning and Memory. Epilepsia, 1997, 38, 1157-1166.	5.1	77
18	Assessing the behavioral and cognitive effects of seizures on the developing brain. Progress in Brain Research, 2002, 135, 377-390.	1.4	76

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19	Models of epilepsy in the developing and adult brain: Implications for neuroprotection. <i>Epilepsy and Behavior</i> , 2005, 7, 18-24.	1.7	74
20	NMDA-induced seizures in developing rats cause long-term learning impairment and increased seizure susceptibility. <i>Epilepsy Research</i> , 2003, 53, 129-137.	1.6	71
21	Mechanisms of action of antiepileptic drugs: the search for synergy. <i>Current Opinion in Neurology</i> , 2010, 23, 157-163.	3.6	69
22	Cognitive development in children with new onset epilepsy. <i>Developmental Medicine and Child Neurology</i> , 2014, 56, 635-641.	2.1	64
23	De Novo Variants in the ATPase Module of MORC2 Cause a Neurodevelopmental Disorder with Growth Retardation and Variable Craniofacial Dysmorphism. <i>American Journal of Human Genetics</i> , 2020, 107, 352-363.	6.2	64
24	Treatment of Infantile Spasms. <i>Journal of Child Neurology</i> , 2011, 26, 1411-1421.	1.4	63
25	Dietary Approaches to Epilepsy Treatment: Old and New Options on the Menu. <i>Epilepsy Currents</i> , 2004, 4, 215-222.	0.8	60
26	Ezogabine (retigabine). <i>Nature Reviews Drug Discovery</i> , 2011, 10, 729-730.	46.4	55
27	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
28	Dietary Therapies for Epilepsy and Other Neurological Disorders: Highlights of the 3rd International Symposium. <i>Epilepsy Currents</i> , 2013, 13, 103-106.	0.8	54
29	Neurodevelopmental alterations of large-scale structural networks in children with new-onset epilepsy. <i>Human Brain Mapping</i> , 2014, 35, 3661-3672.	3.6	53
30	Co-occurrence and Severity of Neurodevelopmental Burden (Cognitive Impairment, Cerebral Palsy, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Pediatric Neurology, 2018, 79, 45-52.	2.1	51
31	The Ketogenic Diet for the Treatment of Epilepsy: A Challenge for Nutritional Neuroscientists. <i>Nutritional Neuroscience</i> , 2003, 6, 67-79.	3.1	50
32	Recent Advances in the Genetics of Epilepsy: Insights from Human and Animal Studies. <i>Epilepsia</i> , 1999, 40, 1329-1352.	5.1	48
33	Neuroprotective Effect of Felbamate After Kainic Acid-Induced Status Epilepticus. <i>Epilepsia</i> , 1993, 34, 359-366.	5.1	47
34	Seizure suppression via glycolysis inhibition with 2-deoxyglucose (2DG). <i>Epilepsia</i> , 2008, 49, 97-100.	5.1	47
35	Infantile Spasms: A Critical Review of Emerging Animal Models. <i>Epilepsy Currents</i> , 2009, 9, 75-81.	0.8	47
36	<i>KIF5A</i> mutations cause an infantile onset phenotype including severe myoclonus with evidence of mitochondrial dysfunction. <i>Annals of Neurology</i> , 2016, 80, 633-637.	5.3	47

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37	Pediatric Epilepsy Mechanisms: Expanding the Paradigm of Excitation/Inhibition Imbalance. <i>Children</i> , 2019, 6, 23.	1.5	47
38	Serial Headache Drawings by Children With Migraine: Correlation With Clinical Headache Status. <i>Journal of Child Neurology</i> , 2005, 20, 809-813.	1.4	45
39	Infantile spasms: Criteria for an animal model. <i>International Review of Neurobiology</i> , 2002, 49, 391-411.	2.0	42
40	The ketogenic diet: What has science taught us?. <i>Epilepsy Research</i> , 2012, 100, 210-217.	1.6	42
41	Epilepsy Mechanisms in Neurocutaneous Disorders: Tuberous Sclerosis Complex, Neurofibromatosis Type 1, and Sturge-Weber Syndrome. <i>Frontiers in Neurology</i> , 2017, 8, 87.	2.4	38
42	Severe Epilepsy Syndromes of Early Childhood: The Link Between Genetics and Pathophysiology With a Focus on SCN1A Mutations. <i>Journal of Child Neurology</i> , 2009, 24, 15S-23S.	1.4	35
43	Potent anti-seizure effects of D-leucine. <i>Neurobiology of Disease</i> , 2015, 82, 46-53.	4.4	35
44	Cognitive phenotypes in childhood idiopathic epilepsies. <i>Epilepsy and Behavior</i> , 2016, 61, 269-274.	1.7	34
45	<i>SYNGAP1</i> mutations: Clinical, genetic, and pathophysiological features. <i>International Journal of Developmental Neuroscience</i> , 2019, 78, 65-76.	1.6	34
46	Behavioral, cognitive, and safety profile of 2-deoxy-2-glucose (2DG) in adult rats. <i>Epilepsy Research</i> , 2012, 101, 246-252.	1.6	33
47	Autism and Epilepsy: Exploring the Relationship Using Experimental Models. <i>Epilepsy Currents</i> , 2015, 15, 206-210.	0.8	32
48	Seizure drawings: insight into the self-image of children with epilepsy. <i>Epilepsy and Behavior</i> , 2003, 4, 43-56.	1.7	30
49	2-Deoxyglucose and Beta-Hydroxybutyrate: Metabolic Agents for Seizure Control. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 172.	3.7	30
50	Consequences of epilepsy in the developing brain: Implications for surgical management. <i>Seminars in Pediatric Neurology</i> , 2000, 7, 147-157.	2.0	28
51	Treating Infantile Spasms with High-Dose Oral Corticosteroids: A Retrospective Review of 87 Children. <i>Pediatric Neurology</i> , 2018, 87, 30-35.	2.1	28
52	Counseling Youth About Military Service Options and Selective Service Registration: An Integral Part of Anticipatory Guidance of Adolescents. <i>Pediatrics</i> , 2007, 119, 1199-1203.	2.1	27
53	Glycolytic inhibition by 2-deoxy-d-glucose abolishes both neuronal and network bursts in an in vitro seizure model. <i>Journal of Neurophysiology</i> , 2017, 118, 103-113.	1.8	27
54	Cumulative Incidence of Seizures and Epilepsy in Ten-Year-Old Children Born Before 28 Weeks' Gestation. <i>Pediatric Neurology</i> , 2017, 73, 13-19.	2.1	26

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55	Art therapy focus groups for children and adolescents with epilepsy. <i>Epilepsy and Behavior</i> , 2012, 24, 227-233.	1.7	23
56	Stages of status epilepticus in the developing brain. <i>Epilepsy Research</i> , 2003, 55, 9-19.	1.6	22
57	Neurological effects of COVID-19 in infants and children. <i>Developmental Medicine and Child Neurology</i> , 2022, 64, 818-829.	2.1	22
58	How Early Can a Seizure Happen? Pathophysiological Considerations of Extremely Premature Infant Brain Development. <i>Developmental Neuroscience</i> , 2018, 40, 417-436.	2.0	21
59	The Timing, Nature, and Range of Neurobehavioral Comorbidities in Juvenile Myoclonic Epilepsy. <i>Pediatric Neurology</i> , 2019, 101, 47-52.	2.1	21
60	Glycolytic inhibition: A novel approach toward controlling neuronal excitability and seizures. <i>Epilepsia Open</i> , 2018, 3, 191-197.	2.4	20
61	A Novel Parent Questionnaire for the Detection of Seizures in Children. <i>Pediatric Neurology</i> , 2016, 54, 64-69.e1.	2.1	19
62	Distinct behavioral phenotypes in novel "fast"-kindling-susceptible and "slow"-kindling-resistant rat strains selected by stimulation of the hippocampal perforant path. <i>Neurobiology of Disease</i> , 2016, 85, 122-129.	4.4	19
63	Epileptic Encephalopathy in Infants and Children. <i>Epilepsy Currents</i> , 2016, 16, 273-279.	0.8	18
64	Quisqualic Acid-Induced Seizures During Development: A Behavioral and EEG Study. <i>Epilepsia</i> , 1994, 35, 868-875.	5.1	17
65	The Glycolytic Metabolite, Fructose-1,6-bisphosphate, Blocks Epileptiform Bursts by Attenuating Voltage-Activated Calcium Currents in Hippocampal Slices. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 168.	3.7	17
66	Pediatric Epileptic Encephalopathies: Pathophysiology and Animal Models. <i>Seminars in Pediatric Neurology</i> , 2016, 23, 98-107.	2.0	16
67	Network analysis of prospective brain development in youth with benign epilepsy with centrotemporal spikes and its relationship to cognition. <i>Epilepsia</i> , 2019, 60, 1838-1848.	5.1	16
68	Seizures in a 7-Month-Old Child After Exposure to the Essential Plant Oil Thuja. <i>Pediatric Neurology</i> , 2007, 37, 446-448.	2.1	15
69	Neurobiological Mechanisms of Developmental Epilepsy: Translating Experimental Findings Into Clinical Application. <i>Seminars in Pediatric Neurology</i> , 2007, 14, 164-172.	2.0	15
70	The Role of Diffusion Tensor Imaging in Detecting Hippocampal Injury Following Neonatal Hypoxic-Ischemic Encephalopathy. <i>Journal of Neuroimaging</i> , 2019, 29, 252-259.	2.0	15
71	Epilepsy Comorbidities: How Can Animal Models Help?. <i>Advances in Experimental Medicine and Biology</i> , 2014, 813, 273-281.	1.6	15
72	Progressive dissociation of cortical and subcortical network development in children with new-onset juvenile myoclonic epilepsy. <i>Epilepsia</i> , 2018, 59, 2086-2095.	5.1	14

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73	Infantile Spasms: An Update on Pre-Clinical Models and EEG Mechanisms. <i>Children</i> , 2020, 7, 5.	1.5	14
74	Epilepsy genes: The link between molecular dysfunction and pathophysiology. <i>Mental Retardation and Developmental Disabilities Research Reviews</i> , 2000, 6, 281-292.	3.6	13
75	SCN8A Epileptic Encephalopathy: Detection of Fetal Seizures Guides Multidisciplinary Approach to Diagnosis and Treatment. <i>Pediatric Neurology</i> , 2016, 64, 87-91.	2.1	13
76	De Novo HECW2 Mutation Associated With Epilepsy, Developmental Decline, and Intellectual Disability: Case Report and Review of Literature. <i>Pediatric Neurology</i> , 2018, 85, 76-78.	2.1	13
77	2-Deoxyglucose terminates pilocarpine-induced status epilepticus in neonatal rats. <i>Epilepsia</i> , 2020, 61, 1528-1537.	5.1	13
78	Na ⁺ -K ⁺ -ATPase functions in the developing hippocampus: regional differences in CA1 and CA3 neuronal excitability and role in epileptiform network bursting. <i>Journal of Neurophysiology</i> , 2021, 125, 1-11.	1.8	13
79	Acute Infantile Encephalopathy as Presentation of Succinic Semialdehyde Dehydrogenase Deficiency. <i>Pediatric Neurology</i> , 2016, 58, 113-115.	2.1	11
80	Seizure Susceptibility Correlates with Brain Injury in Male Mice Treated with Hypothermia after Neonatal Hypoxia-Ischemia. <i>Developmental Neuroscience</i> , 2018, 40, 576-585.	2.0	10
81	Behavioral phenotypes of childhood idiopathic epilepsies. <i>Epilepsia</i> , 2020, 61, 1427-1437.	5.1	10
82	Diagnosing and managing childhood absence epilepsy by telemedicine. <i>Epilepsy and Behavior</i> , 2021, 115, 107404.	1.7	10
83	Can Preventative Antiepileptic Therapy Alter Outcome in Infants with Tuberous Sclerosis Complex?. <i>Epilepsia</i> , 2007, 48, 1632-1634.	5.1	9
84	Evidence of Diplopia in Children's Headache Drawings Helps to Differentiate Pseudotumor Cerebri From Migraine. <i>Pediatric Neurology</i> , 2018, 79, 40-44.	2.1	9
85	Contribution of Family Relatedness to Neurobehavioral Comorbidities in Idiopathic Childhood Epilepsies. <i>Journal of the International Neuropsychological Society</i> , 2018, 24, 653-661.	1.8	8
86	Pharmacotherapy for Focal Seizures in Children and Adolescents. <i>Drugs</i> , 2018, 78, 1321-1337.	10.9	7
87	Using artwork to understand and address the psychosocial challenges facing children and adolescents with epilepsy. <i>Epilepsy and Behavior</i> , 2019, 101, 106572.	1.7	7
88	Sex specific correlation between GABAergic disruption in the dorsal hippocampus and flurothyl seizure susceptibility after neonatal hypoxic-ischemic brain injury. <i>Neurobiology of Disease</i> , 2021, 148, 105222.	4.4	7
89	Neonatal Seizures: Is a Novel, Mechanism-Based Treatment Finally on the Horizon?. <i>Epilepsy Currents</i> , 2006, 6, 130-132.	0.8	6
90	Correlation of EEG with neuropsychological status in children with epilepsy. <i>Clinical Neurophysiology</i> , 2016, 127, 1196-1205.	1.5	6

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91	Antecedents of epilepsy and seizures among children born at extremely low gestational age. <i>Journal of Perinatology</i> , 2019, 39, 774-783.	2.0	6
92	Using artwork to better understand patients with neurologic disorders. <i>Epilepsy and Behavior</i> , 2005, 6, 113-114.	1.7	5
93	Ketogenic Diet, but Not Polyunsaturated Fatty Acid Diet, Reduces Spontaneous Seizures in Juvenile Rats with Kainic Acid-induced Epilepsy. <i>Journal of Epilepsy Research</i> , 2016, 6, 1-7.	0.4	5
94	Dysplasia and overgrowth: magnetic resonance imaging of pediatric brain abnormalities secondary to alterations in the mechanistic target of rapamycin pathway. <i>Neuroradiology</i> , 2018, 60, 137-150.	2.2	5
95	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.	2.0	4
96	Neurobiological substrates of processing speed in childhood epilepsy. <i>Brain Imaging and Behavior</i> , 2019, 13, 1719-1725.	2.1	4
97	The efficacy of fructose-1,6-bisphosphate in suppressing status epilepticus in developing rats. <i>Epilepsy Research</i> , 2020, 168, 106500.	1.6	4
98	The Johns Hopkins Neurosciences Intensive Care Nursery Tenth Anniversary (2009-2019): A Historical Reflection and Vision for the Future. <i>Child Neurology Open</i> , 2020, 7, 2329048X2090776.	1.1	4
99	2-Deoxyglucose and Î³-Hydroxybutyrate fail to attenuate seizures in the betamethasone-Î³NMDA model of infantile spasms. <i>Epilepsia Open</i> , 2022, 7, 181-186.	2.4	4
100	Effects of uncontrolled seizures. Neural changes in animal models. <i>Advances in Experimental Medicine and Biology</i> , 2002, 497, 171-94.	1.6	4
101	It's Time to Eliminate the Term Seizure Disorder from Our Lexicon. <i>Epilepsia</i> , 2005, 46, 456-456.	5.1	3
102	Epilepsy in autism spectrum disorders. <i>Epilepsia</i> , 2010, 51, 78-78.	5.1	3
103	Neurophysiology of Seizures and Epilepsy. , 2017, , 506-512.		3
104	N. Paul Rosman, MD: Scholar, Teacher, Clinician, and Humanist. <i>Journal of Child Neurology</i> , 2005, 20, 787-789.	1.4	2
105	Mechanism-Based Treatment for Neonatal Seizures: Still on the Horizon. <i>Epilepsy Currents</i> , 2020, 20, 53S-55S.	0.8	2
106	Using the TTX Model to Better Understand the Pathophysiology of a DREADDED Epilepsy-Infantile (Epileptic) Spasms. <i>Epilepsy Currents</i> , 2021, 21, 129-131.	0.8	2
107	Don't Get BUM'd Out: Bumetanide May yet Prove Beneficial for Neonatal Seizures. <i>Epilepsy Currents</i> , 2021, 21, 341-343.	0.8	2
108	Cognition, Behavior, and Psychosocial Effects of Seizures in the Developing Brain. <i>Current Topics in Behavioral Neurosciences</i> , 2020, , 3-15.	1.7	2

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109	Epilepsy comorbidities: Into the limelight. <i>Epilepsy and Behavior</i> , 2014, 40, 128.	1.7	1
110	Neurostimulation Techniques for the Treatment of Epilepsy. <i>Journal of Pediatric Epilepsy</i> , 2017, 06, 091-096.	0.2	1
111	Stopped At the Border: Cortical Spreading Depolarization Blocks Seizure Propagation. <i>Epilepsy Currents</i> , 2020, 20, 171-172.	0.8	1
112	Overview of Brain Development: Principles Relevant for Developmental Epilepsy. , 2019, , 1-33.		1
113	To Not Sleep, Perchance to Seize. <i>Epilepsy Currents</i> , 2022, 22, 187-189.	0.8	1
114	Imaging Anatomy of the Human Brain. <i>Journal of Pediatric Epilepsy</i> , 2015, 04, 216-216.	0.2	0
115	Fast Facts: Epilepsy. <i>Journal of Pediatric Epilepsy</i> , 2015, 02, 093-094.	0.2	0
116	Neonatal Seizures: Current Management and Future Challenges. <i>Journal of Pediatric Epilepsy</i> , 2016, 05, 198-198.	0.2	0
117	Epilepsy by Any Other Name Would (Not!) Smell as Sweet. <i>Journal of Pediatrics</i> , 2017, 191, 8-9.	1.8	0
118	Cognition and Behavior in Childhood Epilepsy. <i>Journal of Pediatric Epilepsy</i> , 2017, 06, 192-192.	0.2	0
119	Reply to Sharawat et al. "Efficacy of High-Dose Oral Steroids in Children With Epileptic Spasms". <i>Pediatric Neurology</i> , 2019, 99, 95-96.	2.1	0
120	How Many Angels Can Dance on the Head of a Patch Pipette? Understanding Neuronal Hyperexcitability in Angelman Syndrome. <i>Epilepsy Currents</i> , 2020, 20, 309-311.	0.8	0
121	Pediatrics: A Case-Based Review. <i>Journal of Pediatric Epilepsy</i> , 2020, 09, 055-056.	0.2	0
122	Aicardi's Diseases of the Nervous System in Childhood. <i>Journal of Pediatric Epilepsy</i> , 2020, 09, 028-028.	0.2	0
123	Pump-opathies: Mutations in Na ⁺ -K ⁺ -ATPase Genes Produce Severe Developmental Epileptic Encephalopathies. <i>Epilepsy Currents</i> , 2022, 22, 72-74.	0.8	0
124	New-Onset Headache and Abnormal Eye Movements in a Four-Year-Old Child: Indicators of Increased Intracranial Pressure. <i>Cureus</i> , 2022, , .	0.5	0