Frances E Jensen

List of Publications by Year
in descending order

65 papers	5,252 citations	76326 40 h-index	110387 64 g-index
66 all docs	66 docs citations	66 times ranked	5352 citing authors

#	Article	IF	Citations
1	Epileptogenesis in the immature brain: emerging mechanisms. Nature Reviews Neurology, 2009, 5, 380-391.	10.1	469
2	Rasmussen's encephalitis: clinical features, pathobiology, and treatment advances. Lancet Neurology, The, 2014, 13, 195-205.	10.2	352
3	The developing oligodendrocyte: key cellular target in brain injury in the premature infant. International Journal of Developmental Neuroscience, 2011, 29, 423-440.	1.6	321
4	Decreased Glutamate Receptor 2 Expression and Enhanced Epileptogenesis in Immature Rat Hippocampus after Perinatal Hypoxia-Induced Seizures. Journal of Neuroscience, 2001, 21, 8154-8163.	3.6	226
5	Neonatal seizures. Annals of Neurology, 2007, 62, 112-120.	5.3	205
6	Developmental regulation of Î±â€aminoâ€3â€hydroxyâ€5â€methylâ€4â€isoxazoleâ€propionic acid receptor subunit expression in forebrain and relationship to regional susceptibility to hypoxic/ischemic injury. II. Human cerebral white matter and cortex. Journal of Comparative Neurology, 2006, 497, 61-77.	1.6	185
7	Maturational Aspects of Epilepsy Mechanisms and Consequences for the Immature Brain. Epilepsia, 2001, 42, 577-585.	5.1	181
8	Early Alterations of AMPA Receptors Mediate Synaptic Potentiation Induced by Neonatal Seizures. Journal of Neuroscience, 2008, 28, 7979-7990.	3.6	160
9	The Interaction between Early Life Epilepsy and Autistic-Like Behavioral Consequences: A Role for the Mammalian Target of Rapamycin (mTOR) Pathway. PLoS ONE, 2012, 7, e35885.	2.5	157
10	Developmental regulation of Î±â€aminoâ€3â€hydroxyâ€5â€methylâ€4â€isoxazoleâ€propionic acid receptor subunit expression in forebrain and relationship to regional susceptibility to hypoxic/ischemic injury. I. Rodent cerebral white matter and cortex. Journal of Comparative Neurology, 2006, 497, 42-60.	1.6	147
11	Epilepsy as a spectrum disorder: Implications from novel clinical and basic neuroscience. Epilepsia, 2011, 52, 1-6.	5.1	137
12	Cellâ€specific alterations of glutamate receptor expression in tuberous sclerosis complex cortical tubers. Annals of Neurology, 2008, 63, 454-465.	5.3	135
13	Developmental toxicity of nicotine: A transdisciplinary synthesis and implications for emerging tobacco products. Neuroscience and Biobehavioral Reviews, 2017, 72, 176-189.	6.1	135
14	NBQX or Topiramate Treatment after Perinatal Hypoxia-induced Seizures Prevents Later Increases in Seizure-induced Neuronal Injury. Epilepsia, 2004, 45, 569-575.	5.1	132
15	Topiramate blocks perinatal hypoxia-induced seizures in rat pups. Annals of Neurology, 2001, 50, 366-372.	5.3	131
16	Neonatal Seizures: An Update on Mechanisms and Management. Clinics in Perinatology, 2009, 36, 881-900.	2.1	123
17	Bumetanide Enhances Phenobarbital Efficacy in a Rat Model of Hypoxic Neonatal Seizures. PLoS ONE, 2013, 8, e57148.	2.5	117
18	The role of glutamate receptor maturation in perinatal seizures and brain injury. International Journal of Developmental Neuroscience, 2002, 20, 339-347.	1.6	108

#	Article	IF	Citations
19	Development of later life spontaneous seizures in a rodent model of hypoxiaâ€induced neonatal seizures. Epilepsia, 2011, 52, 753-765.	5.1	102
20	The challenge and promise of anti-epileptic therapy development in animal models. Lancet Neurology, The, 2014, 13, 949-960.	10.2	101
21	AMPA/Kainate Receptor-Mediated Downregulation of GABAergic Synaptic Transmission by Calcineurin after Seizures in the Developing Rat Brain. Journal of Neuroscience, 2005, 25, 3442-3451.	3.6	94
22	Developmental Expression of N-Methyl-d-Aspartate (NMDA) Receptor Subunits in Human White and Gray Matter: Potential Mechanism of Increased Vulnerability in the Immature Brain. Cerebral Cortex, 2015, 25, 482-495.	2.9	85
23	Developmental factors regulating susceptibility to perinatal brain injury and seizures. Current Opinion in Pediatrics, 2006, 18, 628-633.	2.0	81
24	Hypoxia-Induced Neonatal Seizures Diminish Silent Synapses and Long-Term Potentiation in Hippocampal CA1 Neurons. Journal of Neuroscience, 2011, 31, 18211-18222.	3.6	80
25	Alzheimer-like amyloid and tau alterations associated with cognitive deficit in temporal lobe epilepsy. Brain, 2020, 143, 191-209.	7.6	74
26	<scp>AMPA</scp> Receptor antagonist <scp>NBQX</scp> attenuates laterâ€life epileptic seizures and autisticâ€like social deficits following neonatal seizures. Epilepsia, 2013, 54, 1922-1932.	5.1	65
27	Opportunities and limitations of genetically modified nonhuman primate models for neuroscience research. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24022-24031.	7.1	64
28	Developmental seizures induced by common early-life insults: Short- and long-term effects on seizure susceptibility. Mental Retardation and Developmental Disabilities Research Reviews, 2000, 6, 253-257.	3.6	63
29	Hypoxia-induced hyperexcitability in vivo and in vitro in the immature hippocampus. Epilepsy Research, 1996, 26, 131-140.	1.6	61
30	Glutamate Receptor 1 Phosphorylation at Serine 831 and 845 Modulates Seizure Susceptibility and Hippocampal Hyperexcitability after Early Life Seizures. Journal of Neuroscience, 2012, 32, 17800-17812.	3.6	59
31	Suppression of Motor Cortical Excitability in Anesthetized Rats by Low Frequency Repetitive Transcranial Magnetic Stimulation. PLoS ONE, 2014, 9, e91065.	2.5	59
32	Mechanistic target of rapamycin complex 1 and 2 in human temporal lobe epilepsy. Annals of Neurology, 2018, 83, 311-327.	5.3	59
33	Models of hypoxia and ischemia-induced seizures. Journal of Neuroscience Methods, 2016, 260, 252-260.	2.5	56
34	Novel Role for the NMDA Receptor Redox Modulatory Site in the Pathophysiology of Seizures. Journal of Neuroscience, 2000, 20, 2409-2417.	3.6	54
35	AMPA Receptor Dysregulation and Therapeutic Interventions in a Mouse Model of CDKL5 Deficiency Disorder. Journal of Neuroscience, 2019, 39, 4814-4828.	3.6	52
36	A Pilot Randomized, Controlled, Doubleâ€Blind Trial of Bumetanide to Treat Neonatal Seizures. Annals of Neurology, 2021, 89, 327-340.	5.3	50

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37	Early-life seizures alter synaptic calcium-permeable AMPA receptor function and plasticity. Molecular and Cellular Neurosciences, 2016, 76, 11-20.	2.2	49
38	Acute seizure suppression by transcranial direct current stimulation in rats. Annals of Clinical and Translational Neurology, 2015, 2, 843-856.	3.7	48
39	Role of Glutamate Receptors in Periventricular Leukomalacia. Journal of Child Neurology, 2005, 20, 950-959.	1.4	47
40	Talampanel suppresses the acute and chronic effects of seizures in a rodent neonatal seizure model. Epilepsia, 2009, 50, 694-701.	5.1	43
41	18-month outcomes of heterologous bilateral hand transplantation in a child: a case report. The Lancet Child and Adolescent Health, 2017, 1, 35-44.	5.6	43
42	Subunit composition of glutamate and gamma-aminobutyric acid receptors in status epilepticus. Epilepsy Research, 2014, 108, 605-615.	1.6	36
43	Mammalian target of rapamycin complex 1 activation negatively regulates Polo-like kinase 2-mediated homeostatic compensation following neonatal seizures. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5199-5204.	7.1	32
44	Early Seizures Prematurely Unsilence Auditory Synapses to Disrupt Thalamocortical Critical Period Plasticity. Cell Reports, 2018, 23, 2533-2540.	6.4	32
45	Adults with Cerebral Palsy Require Ongoing Neurologic Care: A Systematic Review. Annals of Neurology, 2021, 89, 860-871.	5.3	28
46	The clinically available NMDA receptor antagonist, memantine, exhibits relative safety in the developing rat brain. International Journal of Developmental Neuroscience, 2011, 29, 767-773.	1.6	24
47	Neonatal seizures alter NMDA glutamate receptor GluN2A and 3A subunit expression and function in hippocampal CA1 neurons. Frontiers in Cellular Neuroscience, 2015, 9, 362.	3.7	24
48	Lestaurtinib (CEP-701) attenuates â€œsecond hitâ€•kainic acid-induced seizures following early life hypoxic seizures. Epilepsy Research, 2014, 108, 806-810.	1.6	17
49	Upregulation of cystathione Î²â€synthase and p70S6K/S6 in neonatal hypoxic ischemic brain injury. Brain Pathology, 2017, 27, 449-458.	4.1	16
50	Developmental factors in the pathogenesis of neonatal seizures. Journal of Pediatric Neurology, 2015, 07, 005-012.	0.2	15
51	The role of mTORC1 activation in seizure-induced exacerbation of Alzheimer's disease. Brain, 2022, 145, 324-339.	7.6	15
52	Chloride cotransporter NKCC1 inhibitor bumetanide protects against white matter injury in a rodent model of periventricular leukomalacia. Pediatric Research, 2015, 77, 554-562.	2.3	14
53	Brain Perfusion Is Increased at Term in the White Matter of Very Preterm Newborns and Newborns with Congenital Heart Disease: Does this Reflect Activated Angiogenesis?. Neuropediatrics, 2015, 46, 344-351.	0.6	13
54	Regulation of seizure-induced MeCP2 Ser421 phosphorylation in the developing brain. Neurobiology of Disease, 2018, 116, 120-130.	4.4	13

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55	Introductionâ€"Epileptogenic cortical dysplasia: Emerging trends in diagnosis, treatment, and pathogenesis. Epilepsia, 2009, 50, 1-2.	5.1	9
56	Progress across the spectrum of epilepsy research. Nature Reviews Neurology, 2014, 10, 63-64.	10.1	8
57	Identification and characterization of outcome measures reported in animal models of epilepsy: Protocol for a systematic review of the literatureâ€"A <scp>TASK</scp>2 report of the <scp>AES</scp>/<scp>ILAE</scp> Translational Task Force of the ILAE. Epilepsia, 2017, 58, 68-77.	5.1	8
58	Dysregulation of FMRP/mTOR Signaling Cascade in Hypoxic-Ischemic Injury of Premature Human Brain. Journal of Child Neurology, 2016, 31, 426-432.	1.4	7
59	OUP accepted manuscript. Cerebral Cortex, 2021, 32, 197-215.	2.9	6
60	Altered hippocampal dendritic spine maturation after hypoxia-induced seizures in neonatal rats. Molecular and Cellular Neurosciences, 2021, 113, 103629.	2.2	4
61	Strengthened through Diversity: A Blueprint for Organizational Change. Annals of Neurology, 2021, 90, 524-536.	5.3	4
62	Found in Translation: Training the Next Generation of Translational Neuroscientists. Neuron, 2014, 84, 542-545.	8.1	3
63	Closing the Sex Divide in the Emerging Field of Neurology. JAMA Neurology, 2018, 75, 920.	9.0	2
64	Randomized trial supports use of levetiracetam adjunctive therapy to treat partial seizures in children. Nature Clinical Practice Neurology, 2006, 2, 596-597.	2.5	1
65	Modeling Hypoxia-Induced Seizures and Hypoxic Encephalopathy in Developing Brain. , 2017, , 697-711.		0