Karen S Wilcox

List of Publications by Year in descending order

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88 papers

3,897 citations

94433 37 h-index 58 g-index

93 all docs 93 docs citations 93 times ranked 4075 citing authors

#	Article	IF	CITATIONS
1	Screening of prototype antiseizure and antiâ€inflammatory compounds in the Theiler's murine encephalomyelitis virus model of epilepsy. Epilepsia Open, 2022, 7, 46-58.	2.4	9
2	Spontaneous recurrent seizures in an intra-amygdala kainate microinjection model of temporal lobe epilepsy are differentially sensitive to antiseizure drugs. Experimental Neurology, 2022, 349, 113954.	4.1	14
3	Identification of clinically relevant biomarkers of epileptogenesis $\hat{a} \in \text{``a strategic roadmap. Nature}$ Reviews Neurology, 2021, 17, 231-242.	10.1	54
4	Response: Usefulness of the postâ€kainate spontaneous recurrent seizure model for screening for antiseizure and for neuroprotective effects. Epilepsia, 2021, 62, 1290-1290.	5.1	2
5	Antiepileptogenesis and disease modification: Progress, challenges, and the path forward—Report of the Preclinical Working Group of the 2018 NINDSâ€sponsored antiepileptogenesis and disease modification workshop. Epilepsia Open, 2021, 6, 276-296.	2.4	24
6	Development of an antiseizure drug screening platform for Dravet syndrome at the NINDS contract site for the Epilepsy Therapy Screening Program. Epilepsia, 2021, 62, 1665-1676.	5.1	25
7	Development of an antiepileptogenesis drug screening platform: Effects of everolimus and phenobarbital. Epilepsia, 2021, 62, 1677-1688.	5.1	11
8	Inflammation Unleashed in Viral-Induced Epileptogenesis. Epilepsy Currents, 2021, 21, 433-440.	0.8	5
9	The current approach of the Epilepsy Therapy Screening Program contract site for identifying improved therapies for the treatment of pharmacoresistant seizures in epilepsy. Neuropharmacology, 2020, 166, 107811.	4.1	51
10	Reactivity and increased proliferation of NG2 cells following central nervous system infection with Theiler's murine encephalomyelitis virus. Journal of Neuroinflammation, 2020, 17, 369.	7.2	7
11	Accurate detection of spontaneous seizures using a generalized linear model with external validation. Epilepsia, 2020, 61, 1906-1918.	5.1	4
12	Discovery of the First Vitamin K Analogue as a Potential Treatment of Pharmacoresistant Seizures. Journal of Medicinal Chemistry, 2020, 63, 5865-5878.	6.4	13
13	Evaluation of subchronic administration of antiseizure drugs in spontaneously seizing rats. Epilepsia, 2020, 61, 1301-1311.	5.1	19
14	Ultrastructural and functional changes at the tripartite synapse during epileptogenesis in a model of temporal lobe epilepsy. Experimental Neurology, 2020, 326, 113196.	4.1	24
15	Cannabidiol reduces seizures following CNS infection with Theiler's murine encephalomyelitis virus. Epilepsia Open, 2019, 4, 431-442.	2.4	21
16	Evaluation of antiseizure drug efficacy and tolerability in the rat lamotrigineâ€resistant amygdala kindling model. Epilepsia Open, 2019, 4, 452-463.	2.4	21
17	Genetic and pharmacological manipulation of glial glutamate transporters does not alter infection-induced seizure activity. Experimental Neurology, 2019, 318, 50-60.	4.1	10
18	Conditional Knock-out of mGluR5 from Astrocytes during Epilepsy Development Impairs High-Frequency Glutamate Uptake. Journal of Neuroscience, 2019, 39, 727-742.	3.6	40

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19	Epilepsy as a Network Disorder (2): What can we learn from other network disorders such as dementia and schizophrenia, and what are the implications for translational research?. Epilepsy and Behavior, 2018, 78, 302-312.	1.7	17
20	Recurrent epileptiform discharges in the medial entorhinal cortex of kainateâ€treated rats are differentially sensitive to antiseizure drugs. Epilepsia, 2018, 59, 2035-2048.	5.1	21
21	Validation of a Preclinical Drug Screening Platform for Pharmacoresistant Epilepsy. Neurochemical Research, 2017, 42, 1904-1918.	3. 3	46
22	Evaluation of Cannabidiol in Animal Seizure Models by the Epilepsy Therapy Screening Program (ETSP). Neurochemical Research, 2017, 42, 1939-1948.	3.3	98
23	Development and pharmacologic characterization of the rat 6 Hz model of partial seizures. Epilepsia, 2017, 58, 1073-1084.	5.1	62
24	Corneal kindled C57BL/6 mice exhibit saturated dentate gyrus long-term potentiation and associated memory deficits in the absence of overt neuron loss. Neurobiology of Disease, 2017, 105, 221-234.	4.4	19
25	Preclinical Comparison of Mechanistically Different Antiseizure, Antinociceptive, and/or Antidepressant Drugs in a Battery of Rodent Models of Nociceptive and Neuropathic Pain. Neurochemical Research, 2017, 42, 1995-2010.	3 . 3	21
26	Postinfectious Epilepsy., 2017,, 683-696.		2
27	Novel Targets for Developing Antiseizure and, Potentially, Antiepileptogenic Drugs. Epilepsy Currents, 2017, 17, 293-298.	0.8	15
28	Hippocampal TNFα Signaling Contributes to Seizure Generation in an Infection-Induced Mouse Model of Limbic Epilepsy. ENeuro, 2017, 4, ENEURO.0105-17.2017.	1.9	88
29	<i>SCN8A</i> encephalopathy: Research progress and prospects. Epilepsia, 2016, 57, 1027-1035.	5.1	101
30	NBQX, a highly selective competitive antagonist of AMPA and KA ionotropic glutamate receptors, increases seizures and mortality following picornavirus infection. Experimental Neurology, 2016, 280, 89-96.	4.1	28
31	Acute treatment with minocycline, but not valproic acid, improves longâ€term behavioral outcomes in the Theiler's virus model of temporal lobe epilepsy. Epilepsia, 2016, 57, 1958-1967.	5.1	42
32	<i>sec</i> -Butylpropylacetamide (SPD) has antimigraine properties. Cephalalgia, 2016, 36, 924-935.	3.9	13
33	Repeated low-dose kainate administration in C57BL/6J mice produces temporal lobe epilepsy pathology but infrequent spontaneous seizures. Experimental Neurology, 2016, 279, 116-126.	4.1	33
34	Neuronal Injury, Gliosis, and Glial Proliferation in Two Models of Temporal Lobe Epilepsy. Journal of Neuropathology and Experimental Neurology, 2016, 75, 366-378.	1.7	71
35	Imaging activity in astrocytes and neurons with genetically encoded calcium indicators following in utero electroporation. Frontiers in Molecular Neuroscience, 2015, 8, 10.	2.9	31
36	Evaluating an Etiologically Relevant Platform for Therapy Development for Temporal Lobe Epilepsy: Effects of Carbamazepine and Valproic Acid on Acute Seizures and Chronic Behavioral Comorbidities in the Theiler's Murine Encephalomyelitis Virus Mouse Model. Journal of Pharmacology and Experimental Therapeutics, 2015, 353, 318-329.	2.5	38

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37	Oxidative stress in murine Theiler's virus-induced temporal lobe epilepsy. Experimental Neurology, 2015, 271, 329-334.	4.1	28
38	Altered structure and function of astrocytes following status epilepticus. Epilepsy and Behavior, 2015, 49, 17-19.	1.7	22
39	Could Astrocytes be Used to Beat Epilepsy? Experiments in dnSNARE Mice Drum up New Hope. Epilepsy Currents, 2014, 14, 277-278.	0.8	0
40	Antiseizure drugs differentially modulate thetaâ€burst induced longâ€term potentiation in <scp>C</scp> 57 <scp>BL</scp> /6 mice. Epilepsia, 2014, 55, 214-223.	5.1	21
41	Does Brain Inflammation Mediate Pathological Outcomes in Epilepsy?. Advances in Experimental Medicine and Biology, 2014, 813, 169-183.	1.6	49
42	Impaired cognitive ability and anxiety-like behavior following acute seizures in the Theiler's virus model of temporal lobe epilepsy. Neurobiology of Disease, 2014, 64, 98-106.	4.4	55
43	Imaging Activity in Neurons and Glia with a Polr2a-Based and Cre-Dependent GCaMP5G-IRES-tdTomato Reporter Mouse. Neuron, 2014, 83, 1058-1072.	8.1	120
44	The challenge and promise of anti-epileptic therapy development in animal models. Lancet Neurology, The, 2014, 13, 949-960.	10.2	101
45	Rapid loss of efficacy to the antiseizure drugs lamotrigine and carbamazepine: A novel experimental model of pharmacoresistant epilepsy. Epilepsia, 2013, 54, 1186-1194.	5.1	40
46	Contributions of astrocytes to epileptogenesis following status epilepticus: Opportunities for preventive therapy?. Neurochemistry International, 2013, 63, 660-669.	3.8	36
47	Novel, Broad-Spectrum Anticonvulsants Containing a Sulfamide Group: Pharmacological Properties of $(\langle i\rangle S$	6.4	18
48	The Expression of Kainate Receptor Subunits in Hippocampal Astrocytes After Experimentally Induced Status Epilepticus. Journal of Neuropathology and Experimental Neurology, 2013, 72, 919-932.	1.7	57
49	Issues related to development of new antiseizure treatments. Epilepsia, 2013, 54, 24-34.	5.1	74
50	Altered Learning and Arc-Regulated Consolidation of Learning in Striatum by Methamphetamine-Induced Neurotoxicity. Neuropsychopharmacology, 2012, 37, 885-895.	5.4	24
51	The activity within the CA3 excitatory network during Theiler's virus encephalitis is distinct from that observed during chronic epilepsy. Journal of NeuroVirology, 2012, 18, 30-44.	2.1	23
52	A new derivative of valproic acid amide possesses a broadâ€spectrum antiseizure profile and unique activity against status epilepticus and organophosphate neuronal damage. Epilepsia, 2012, 53, 134-146.	5.1	58
53	Topiramate modulation of \hat{l}^21 - and \hat{l}^23 -homomeric GABAA receptors. Pharmacological Research, 2011, 64, 44-52.	7.1	17
54	CGX-1007 prevents excitotoxic cell death via actions at multiple types of NMDA receptors. NeuroToxicology, 2011, 32, 392-399.	3.0	17

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55	cAMP-Dependent protein kinase A activity modulates topiramate potentiation of GABAA receptors. Epilepsy Research, 2011, 96, 176-179.	1.6	5
56	Once initiated, viral encephalitis-induced seizures are consistent no matter the treatment or lack of interleukin-6. Journal of NeuroVirology, 2011, 17, 496-499.	2.1	18
57	Lack of Correlation of Central Nervous System Inflammation and Neuropathology with the Development of Seizures following Acute Virus Infection. Journal of Virology, 2011, 85, 8149-8157.	3.4	28
58	Interleukin-6, Produced by Resident Cells of the Central Nervous System and Infiltrating Cells, Contributes to the Development of Seizures following Viral Infection. Journal of Virology, 2011, 85, 6913-6922.	3.4	94
59	Theiler's virus infection chronically alters seizure susceptibility. Epilepsia, 2010, 51, 1418-1428.	5.1	71
60	Development of Postinfection Epilepsy After Theiler's Virus Infection of C57BL/6 Mice. Journal of Neuropathology and Experimental Neurology, 2010, 69, 1210-1219.	1.7	101
61	Increased coupling and altered glutamate transport currents in astrocytes following kainic-acid-induced status epilepticus. Neurobiology of Disease, 2010, 40, 573-585.	4.4	97
62	Innate but not adaptive immune responses contribute to behavioral seizures following viral infection. Epilepsia, 2010, 51, 454-464.	5.1	102
63	Potassium channelopathies of epilepsy. Epilepsia, 2010, 51, 60-60.	5.1	3
64	Role for Complement in the Development of Seizures following Acute Viral Infection. Journal of Virology, 2010, 84, 6452-6460.	3.4	44
65	Electroconvulsive seizure thresholds and kindling acquisition rates are altered in mouse models of human <i>KCNQ2</i> and <i>KCNQ3</i> mutations for benign familial neonatal convulsions. Epilepsia, 2009, 50, 1752-1759.	5.1	36
66	Inhibition of the betaine-GABA transporter (mGAT2/BGT-1) modulates spontaneous electrographic bursting in the medial entorhinal cortex (mEC). Epilepsy Research, 2008, 79, 6-13.	1.6	26
67	Mouse models of human <i>KCNQ2</i> and <i>KCNQ3</i> mutations for benign familial neonatal convulsions show seizures and neuronal plasticity without synaptic reorganization. Journal of Physiology, 2008, 586, 3405-3423.	2.9	122
68	Seizures following picornavirus infection. Epilepsia, 2008, 49, 1066-1074.	5.1	103
69	Differences in excitatory transmission between thalamic and cortical afferents to single spiny efferent neurons of rat dorsal striatum. European Journal of Neuroscience, 2008, 28, 2041-2052.	2.6	44
70	In vivo pharmacological effects of JZP-4, a novel anticonvulsant, in models for anticonvulsant, antimania and antidepressant activity. Pharmacology Biochemistry and Behavior, 2008, 89, 523-534.	2.9	19
71	Mechanisms of Action of Antiepileptic Drugs. International Review of Neurobiology, 2007, 81, 85-110.	2.0	188
72	Phenytoin- and carbamazepine-resistant spontaneous bursting in rat entorhinal cortex is blocked by retigabine in vitro. Epilepsy Research, 2007, 74, 97-106.	1.6	33

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73	Discovery of antiepileptic drugs. Neurotherapeutics, 2007, 4, 12-17.	4.4	148
74	A rat brain slice preparation for characterizing both thalamostriatal and corticostriatal afferents. Journal of Neuroscience Methods, 2007, 159, 224-235.	2.5	72
75	Subunit selectivity of topiramate modulation of heteromeric GABAA receptors. Neuropharmacology, 2006, 50, 845-857.	4.1	59
76	Preclinical evaluation of 2,2,3,3-tetramethylcyclopropanecarbonyl-urea, a novel, second generation to valproic acid, antiepileptic drug. Neuropharmacology, 2006, 51, 933-946.	4.1	16
77	Effect of Conantokin G on NMDA Receptor–Mediated Spontaneous EPSCs in Cultured Cortical Neurons. Journal of Neurophysiology, 2006, 96, 1084-1092.	1.8	14
78	A Spontaneous Mutation Involving Kcnq2 (Kv7.2) Reduces M-Current Density and Spike Frequency Adaptation in Mouse CA1 Neurons. Journal of Neuroscience, 2006, 26, 2053-2059.	3.6	77
79	Mice Carrying the Szt1 Mutation Exhibit Increased Seizure Susceptibility and Altered Sensitivity to Compounds Acting at the M-Channel. Epilepsia, 2004, 45, 1009-1016.	5.1	39
80	The effect of CGX-1007 and CI-1041, novel NMDA receptor antagonists, on NMDA receptor-mediated EPSCs. Epilepsy Research, 2004, 59, 13-24.	1.6	43
81	Differences in multiple forms of short-term plasticity between excitatory and inhibitory hippocampal neurons in culture. Synapse, 2003, 50, 41-52.	1.2	18
82	Characterization of the anticonvulsant profile and enantioselective pharmacokinetics of the chiral valproylamide propylisopropyl acetamide in rodents. British Journal of Pharmacology, 2003, 138, 602-613.	5.4	25
83	Evidence for Functionally Distinct Synaptic NMDA Receptors in Ventromedial Versus Dorsolateral Striatum. Journal of Neurophysiology, 2003, 89, 69-80.	1.8	60
84	Effects of the Anticonvulsant Retigabine on Cultured Cortical Neurons: Changes in Electroresponsive Properties and Synaptic Transmission. Molecular Pharmacology, 2002, 61, 921-927.	2.3	100
85	Anticonvulsant Profile and Teratogenicity of N-methyl-tetramethylcyclopropyl Carboxamide: A New Antiepileptic Drug. Epilepsia, 2002, 43, 115-126.	5.1	31
86	Characterization of desensitization in recombinant N-methyl-d-aspartate receptors: comparison with native receptors in cultured hippocampal neurons. Molecular Brain Research, 1998, 57, 10-20.	2.3	11
87	Calcium-Dependent Paired-Pulse Facilitation of Miniature EPSC Frequency Accompanies Depression of EPSCs at Hippocampal Synapses in Culture. Journal of Neuroscience, 1996, 16, 5312-5323.	3.6	113
88	Properties of inhibitory and excitatory synapses between hippocampal neurons in very low density cultures. Synapse, 1994, 18, 128-151.	1.2	76