

G Campbell Teskey

List of Publications by Year in descending order

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86
papers

2,293
citations

201674

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254184

43
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91
all docs

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docs citations

91
times ranked

2312
citing authors

#	ARTICLE	IF	CITATIONS
1	Cortical stimulation improves skilled forelimb use following a focal ischemic infarct in the rat. <i>Neurological Research</i> , 2003, 25, 794-800.	1.3	153
2	Long-term Potentiation Induces Expanded Movement Representations and Dendritic Hypertrophy in Layer V of Rat Sensorimotor Neocortex. <i>Cerebral Cortex</i> , 2004, 14, 586-593.	2.9	111
3	Motor Cortex Is Functionally Organized as a Set of Spatially Distinct Representations for Complex Movements. <i>Journal of Neuroscience</i> , 2014, 34, 13574-13585.	3.6	100
4	Postictal behavioural impairments are due to a severe prolonged hypoperfusion/hypoxia event that is COX-2 dependent. <i>ELife</i> , 2016, 5, .	6.0	96
5	Motor Map Expansion Following Repeated Cortical and Limbic Seizures Is Related to Synaptic Potentiation. <i>Cerebral Cortex</i> , 2002, 12, 98-105.	2.9	95
6	Post-activation potentiation in the neocortex. IV. Multiple sessions required for induction of long-term potentiation in the chronic preparation. <i>Brain Research</i> , 1995, 702, 87-93.	2.2	76
7	Age, experience, injury, and the changing brain. <i>Developmental Psychobiology</i> , 2012, 54, 311-325.	1.6	73
8	Postictal hypoperfusion/hypoxia provides the foundation for a unified theory of seizure-induced brain abnormalities and behavioral dysfunction. <i>Epilepsia</i> , 2017, 58, 1493-1501.	5.1	72
9	Knowing Beans: Human Mirror Mechanisms Revealed Through Motor Adaptation. <i>Frontiers in Human Neuroscience</i> , 2010, 4, 204.	2.0	61
10	Febrile Convulsions Induced by the Combination of Lipopolysaccharide and Low-dose Kainic Acid Enhance Seizure Susceptibility, Not Epileptogenesis, in Rats. <i>Epilepsia</i> , 2005, 46, 1898-1905.	5.1	60
11	Optimal parameters for microstimulation derived forelimb movement thresholds and motor maps in rats and mice. <i>Journal of Neuroscience Methods</i> , 2011, 196, 60-69.	2.5	59
12	Neurodegeneration and Pathology in Epilepsy: Clinical and Basic Perspectives. <i>Advances in Neurobiology</i> , 2017, 15, 317-334.	1.8	57
13	Induction of long-term depression is associated with decreased dendritic length and spine density in layers III and V of sensorimotor neocortex. <i>Synapse</i> , 2004, 53, 114-121.	1.2	56
14	Persistence of kindling: Effect of partial kindling, retention interval, kindling site, and stimulation parameters. <i>Epilepsy Research</i> , 1995, 21, 171-182.	1.6	51
15	Stress-induced modulation of endocannabinoid signaling leads to delayed strengthening of synaptic connectivity in the amygdala. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 650-655.	7.1	50
16	Enhanced epileptogenesis in S100B knockout mice. <i>Molecular Brain Research</i> , 2002, 106, 22-29.	2.3	49
17	Development of motor maps in rats and their modulation by experience. <i>Journal of Neurophysiology</i> , 2012, 108, 1309-1317.	1.8	47
18	Induction of Neocortical Long-Term Depression Results in Smaller Movement Representations, Fewer Excitatory Perforated Synapses, and More Inhibitory Synapses. <i>Cerebral Cortex</i> , 2006, 17, 434-442.	2.9	38

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19	InÂvivo endocannabinoid dynamics at the timescale of physiological and pathological neural activity. <i>Neuron</i> , 2021, 109, 2398-2403.e4.	8.1	38
20	Intracortical Microstimulation (ICMS) Activates Motor Cortex Layer 5 Pyramidal Neurons Mainly Transsynaptically. <i>Brain Stimulation</i> , 2015, 8, 742-750.	1.6	36
21	Post-activation potentiation in the neocortex. III. Kindling-induced potentiation in the chronic preparation. <i>Brain Research</i> , 1995, 702, 77-86.	2.2	35
22	Hippocampal Kindling Leads to Motor Map Expansion. <i>Epilepsia</i> , 2006, 47, 1383-1391.	5.1	34
23	Post-activation potentiation and depression in the neocortex of the rat: II. Chronic preparations. <i>Brain Research</i> , 1994, 637, 83-96.	2.2	32
24	Functional brain mapping at 9.4T using a new MRIâ€compatible electrode chronically implanted in rats. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 222-228.	3.0	32
25	Increased spontaneous unit discharge rates following electrical kindling in the rat. <i>Brain Research</i> , 1993, 624, 11-18.	2.2	30
26	Ketogenic diet restores aberrant cortical motor maps and excitation-to-inhibition imbalance in the BTBR mouse model of autism spectrum disorder. <i>Behavioural Brain Research</i> , 2016, 304, 67-70.	2.2	29
27	Kindling Changes Burst Firing, Neural Synchrony and Tonotopic Organization of Cat Primary Auditory Cortex. <i>Cerebral Cortex</i> , 2004, 14, 827-839.	2.9	28
28	Neocortical kindling is associated with opposing alterations in dendritic morphology in neocortical layer V and striatum from neocortical layer III. <i>Synapse</i> , 2006, 59, 1-9.	1.2	28
29	Signs and symptoms of the postictal period in epilepsy: A systematic review and meta-analysis. <i>Epilepsy and Behavior</i> , 2019, 94, 243-251.	1.7	27
30	Post-activation potentiation in the neocortex of awake freely moving rats. <i>Neuroscience and Biobehavioral Reviews</i> , 1998, 22, 195-207.	6.1	25
31	Repeated seizures lead to altered skilled behaviour and are associated with more highly efficacious excitatory synapses. <i>European Journal of Neuroscience</i> , 2008, 27, 2165-2176.	2.6	23
32	Neocortical movement representations are reduced and reorganized following bilateral intrastriatal 6-hydroxydopamine infusion and dopamine type-2 receptor antagonism. <i>Experimental Neurology</i> , 2009, 220, 162-170.	4.1	23
33	A prolonged experimental febrile seizure results in motor map reorganization in adulthood. <i>Neurobiology of Disease</i> , 2012, 45, 692-700.	4.4	23
34	Functional MRI response and correlated electrophysiological changes during posterior hypothalamic nucleus deep brain stimulation. <i>NeuroImage</i> , 2011, 56, 35-44.	4.2	21
35	Seizures elevate gliovascular unit Ca ²⁺ and cause sustained vasoconstriction. <i>JCI Insight</i> , 2020, 5, .	5.0	21
36	Differential neuroplastic changes in neocortical movement representations and dendritic morphology in epilepsyâ€prone and epilepsyâ€resistant rat strains following highâ€frequency stimulation. <i>European Journal of Neuroscience</i> , 2004, 19, 2319-2328.	2.6	20

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37	Postictal brainstem hypoperfusion and risk factors for sudden unexpected death in epilepsy. <i>Neurology</i> , 2020, 95, e1694-e1705.	1.1	20
38	High frequency stimulation alters motor maps, impairs skilled reaching performance and is accompanied by an upregulation of specific GABA, glutamate and NMDA receptor subunits. <i>Neuroscience</i> , 2012, 215, 98-113.	2.3	19
39	Anandamide Signaling Augmentation Rescues Amygdala Synaptic Function and Comorbid Emotional Alterations in a Model of Epilepsy. <i>Journal of Neuroscience</i> , 2020, 40, 6068-6081.	3.6	19
40	Mossy fiber sprouting is dissociated from kindling of generalized seizures in the guinea-pig. <i>NeuroReport</i> , 2000, 11, 2897-2901.	1.2	18
41	Cortical layer III pyramidal dendritic morphology normalizes within 3 weeks after kindling and is dissociated from kindling-induced potentiation. <i>Brain Research</i> , 2001, 911, 125-133.	2.2	18
42	High frequency stimulation of the subthalamic nucleus acutely rescues motor deficits and neocortical movement representations following 6-hydroxydopamine administration in rats. <i>Experimental Neurology</i> , 2011, 231, 82-90.	4.1	18
43	Ndel1 and Reelin Maintain Postnatal CA1 Hippocampus Integrity. <i>Journal of Neuroscience</i> , 2016, 36, 6538-6552.	3.6	18
44	Sensory stimulation reduces seizure severity but not afterdischarge duration of partial seizures kindled in the hippocampus at threshold intensities. <i>Neuroscience Letters</i> , 2005, 388, 33-38.	2.1	17
45	Exogenous antenatal glucocorticoid treatment reduces susceptibility for hippocampal kindled and maximal electroconvulsive seizures in infant rats. <i>Experimental Neurology</i> , 2006, 198, 303-312.	4.1	17
46	Motor map expansion in the pilocarpine model of temporal lobe epilepsy is dependent on seizure severity and rat strain. <i>Experimental Neurology</i> , 2009, 217, 421-428.	4.1	17
47	Serotonin 1A Receptors Alter Expression of Movement Representations. <i>Journal of Neuroscience</i> , 2013, 33, 4988-4999.	3.6	17
48	HCN channels segregate stimulation-evoked movement responses in neocortex and allow for coordinated forelimb movements in rodents. <i>Journal of Physiology</i> , 2017, 595, 247-263.	2.9	16
49	Fast oxygen dynamics as a potential biomarker for epilepsy. <i>Scientific Reports</i> , 2018, 8, 17935.	3.3	16
50	In vivo assessment of mechanisms underlying the neurovascular basis of postictal amnesia. <i>Scientific Reports</i> , 2020, 10, 14992.	3.3	16
51	Development and plasticity of complex movement representations. <i>Journal of Neurophysiology</i> , 2021, 125, 628-637.	1.8	15
52	Evolution of afterdischarge and seizure characteristics during electrical kindling of the guinea-pig. <i>Brain Research</i> , 1995, 672, 137-147.	2.2	14
53	MAOA knockout mice are more susceptible to seizures but show reduced epileptogenesis. <i>Epilepsy Research</i> , 2004, 59, 25-34.	1.6	14
54	Endocannabinoid-serotonin systems interaction in health and disease. <i>Progress in Brain Research</i> , 2021, 259, 83-134.	1.4	14

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55	Motor maps, seizures, and behaviour.. Canadian Journal of Experimental Psychology, 2008, 62, 132-139.	0.8	13
56	Assessment of brain oxygenation imbalance following soman exposure in rats. NeuroToxicology, 2018, 65, 28-37.	3.0	13
57	Alternate-site kindling in the guinea-pig results in accelerated seizure progression and generalization. Epilepsy Research, 1999, 34, 151-159.	1.6	12
58	Kindling Limits the Interictal Neuronal Temporal Response Properties in Cat Primary Auditory Cortex. Epilepsia, 2005, 46, 171-178.	5.1	12
59	Seizures, but not lowered seizure thresholds, results in larger neocortical motor maps and concomitant disruptions in skilled motor behaviour. Behavioural Brain Research, 2010, 214, 60-65.	2.2	11
60	Larger cortical motor maps after seizures. European Journal of Neuroscience, 2011, 34, 615-621.	2.6	11
61	Dynamic oxygen changes during status epilepticus and subsequent endogenous kindling. Epilepsia, 2020, 61, 1515-1527.	5.1	9
62	New neurons in old brains: implications of age in the analysis of neurogenesis in post-mortem tissue. Molecular Brain, 2022, 15, 38.	2.6	9
63	Effect of Complete and Partial Bilateral Lesions of the Deep Cerebellar Nuclei on Amygdaloid Kindling in Rats. Epilepsia, 1998, 39, 692-699.	5.1	8
64	Conventional anticonvulsant drugs in the guinea pig kindling model of partial seizures: effects of acute phenobarbital, valproate, and ethosuximide. Experimental Brain Research, 2002, 146, 336-344.	1.5	7
65	The ketogenic diet raises brain oxygen levels, attenuates postictal hypoxia, and protects against learning impairments. Neurobiology of Disease, 2021, 154, 105335.	4.4	7
66	Persistent enhancement of functional MRI responsiveness to sensory stimulation following repeated seizures. Epilepsia, 2011, 52, 2285-2292.	5.1	6
67	Caffeine Exacerbates Postictal Hypoxia. Neuroscience, 2019, 422, 32-43.	2.3	6
68	Reelin Improves Cognition and Extends the Lifespan of Mutant Ndel1 Mice with Postnatal CA1 Hippocampus Deterioration. Cerebral Cortex, 2020, 30, 4964-4978.	2.9	6
69	Behavioral Deficits in Mice with Postnatal Disruption of <i>Ndel1</i> in Forebrain Excitatory Neurons: Implications for Epilepsy and Neuropsychiatric Disorders. Cerebral Cortex Communications, 2021, 2, tgaa096.	1.6	6
70	OUP accepted manuscript. Cerebral Cortex, 2022, , .	2.9	6
71	Cortical kindling induces elevated levels of AMPA and GABA receptor subunit mRNA within the amygdala/piriform region and is associated with behavioral changes in the rat. Epilepsy and Behavior, 2009, 16, 404-410.	1.7	5
72	Development and testing of a new system for assessing wheel-running behaviour in rodents. BMC Research Notes, 2016, 9, 262.	1.4	5

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73	Conventional anticonvulsant drugs in the guinea-pig kindling model of partial seizures: effects of repeated administration. <i>Experimental Brain Research</i> , 2007, 178, 115-125.	1.5	4
74	Postnatal Role of the Cytoskeleton in Adult Epileptogenesis. <i>Cerebral Cortex Communications</i> , 2020, 1, tga024.	1.6	4
75	Seizures Alter Cortical Representations for Complex Movements. <i>Neuroscience</i> , 2020, 449, 134-146.	2.3	4
76	Loss of HCN channel mediated Ih current following seizures accounts for movement dysfunction. <i>Channels</i> , 2017, 11, 176-177.	2.8	3
77	From Ultrastructure to Networks: Kindling-induced changes in neocortex. , 2005, , 125-135.		2
78	Functional Organization of Rat and Mouse Motor Cortex. <i>Neuromethods</i> , 2011, , 117-137.	0.3	2
79	Delta-9-tetrahydrocannabinol (THC) affects forelimb motor map expression but has little effect on skilled and unskilled behavior. <i>Neuroscience</i> , 2016, 319, 134-145.	2.3	2
80	Motivational wheel running reverses cueing behavioural inflexibility in rodents. <i>Journal of Neural Transmission</i> , 2017, 124, 1635-1640.	2.8	2
81	Neurovascular Coupling in Seizures. <i>Neuroglia (Basel, Switzerland)</i> , 2021, 2, 36-47.	0.9	2
82	Post-stroke recovery therapies in animals. , 0, , 35-46.		1
83	Quantitative T2 MRI is predictive of neurodegeneration following organophosphate exposure in a rat model. <i>Scientific Reports</i> , 2020, 10, 13007.	3.3	1
84	Special issue on behavioural and neural plasticity. <i>Behavioural Brain Research</i> , 2010, 214, 1-2.	2.2	0
85	Paradoxical phenomena in brain plasticity. , 0, , 350-364.		0
86	Mechanisms underlying behavioural comorbidities associated with kindling. <i>Canadian Journal of Neurological Sciences</i> , 2009, 36 Suppl 2, S39-40.	0.5	0