

Vijayalakshmi Santhakumar

List of Publications by Year in descending order

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59
papers

2,358
citations

318942

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242451

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all docs

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docs citations

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times ranked

2501
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Activity-Dependent Increase in Synaptic Inhibition and Parvalbumin Interneuron Recruitment in Dentate Granule Cells and Semilunar Granule Cells. <i>Journal of Neuroscience</i> , 2022, 42, 1090-1103.	1.7	9
2	Long-Term Effects of Moderate Concussive Brain Injury During Adolescence on Synaptic and Tonic GABA Currents in Dentate Granule Cells and Semilunar Granule Cells. <i>Frontiers in Neuroscience</i> , 2022, 16, 800733.	1.4	2
3	Traumatic brain injury metabolome and mitochondrial impact after early stage Ru360 treatment. <i>Mitochondrion</i> , 2021, 57, 192-204.	1.6	6
4	ExBoX – a simple Boolean exclusion strategy to drive expression in neurons. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	4
5	Reduced hippocampal inhibition and enhanced autism-epilepsy comorbidity in mice lacking neuropilin 2. <i>Translational Psychiatry</i> , 2021, 11, 537.	2.4	13
6	Kaempferol Treatment after Traumatic Brain Injury during Early Development Mitigates Brain Parenchymal Microstructure and Neural Functional Connectivity Deterioration at Adolescence. <i>Journal of Neurotrauma</i> , 2020, 37, 966-974.	1.7	15
7	Born to Be Wild: A Case for Targeting Ectopic Adult Born Granule Cells for Seizure Control. <i>Epilepsy Currents</i> , 2020, 20, 57-60.	0.4	0
8	From Plugging the Dam to Fueling the Firing: Platelets Breach the Barrier to Seize the Brain. <i>Epilepsy Currents</i> , 2020, 20, 300-302.	0.4	0
9	Dendritic morphology and inhibitory regulation distinguish dentate semilunar granule cells from granule cells through distinct stages of postnatal development. <i>Brain Structure and Function</i> , 2020, 225, 2841-2855.	1.2	12
10	Toll-like Receptor 4 Signaling in Neurons Enhances Calcium-Permeable AMPA Receptor Currents and Drives Post-Traumatic Epileptogenesis. <i>Annals of Neurology</i> , 2020, 87, 497-515.	2.8	36
11	Distinct cellular mediators drive the Janus faces of toll-like receptor 4 regulation of network excitability which impacts working memory performance after brain injury. <i>Brain, Behavior, and Immunity</i> , 2020, 88, 381-395.	2.0	12
12	Current ex vivo and in vitro approaches to uncovering mechanisms of neurological dysfunction after traumatic brain injury. <i>Current Opinion in Biomedical Engineering</i> , 2020, 14, 18-24.	1.8	6
13	Alterations of Parenchymal Microstructure, Neuronal Connectivity, and Cerebrovascular Resistance at Adolescence after Mild-to-Moderate Traumatic Brain Injury in Early Development. <i>Journal of Neurotrauma</i> , 2019, 36, 601-608.	1.7	11
14	Goldilocks Zone of Ictal Onset: Partially Recovered Synapses Provide the Kindling to Fuel Ictal Activity. <i>Epilepsy Currents</i> , 2019, 19, 330-332.	0.4	1
15	The p75NTR Influences Cerebellar Circuit Development and Adult Behavior via Regulation of Cell Cycle Duration of Granule Cell Progenitors. <i>Journal of Neuroscience</i> , 2019, 39, 9119-9129.	1.7	20
16	Consolidated Biochemical Profile of Subacute Stage Traumatic Brain Injury in Early Development. <i>Frontiers in Neuroscience</i> , 2019, 13, 431.	1.4	11
17	Beneficial Effects of Kaempferol after Developmental Traumatic Brain Injury Is through Protection of Mitochondrial Function, Oxidative Metabolism, and Neural Viability. <i>Journal of Neurotrauma</i> , 2019, 36, 1264-1278.	1.7	31
18	Converging early responses to brain injury pave the road to epileptogenesis. <i>Journal of Neuroscience Research</i> , 2019, 97, 1335-1344.	1.3	16

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19	Reefer to the Rescue: The Dope on Cannabidiol as a Multi-Symptom Panacea for Dravet Syndrome. <i>Epilepsy Currents</i> , 2018, 18, 118-120.	0.4	2
20	Early behavioral and metabolomic change after mild to moderate traumatic brain injury in the developing brain. <i>Neurochemistry International</i> , 2018, 120, 75-86.	1.9	25
21	High Ca ²⁺ Influx During Traumatic Brain Injury Leads to Caspase-1-Dependent Neuroinflammation and Cell Death. <i>Molecular Neurobiology</i> , 2017, 54, 3964-3975.	1.9	36
22	Enhanced Dentate Neurogenesis after Brain Injury Undermines Long-Term Neurogenic Potential and Promotes Seizure Susceptibility. <i>Stem Cell Reports</i> , 2017, 9, 972-984.	2.3	73
23	Traumatic brain injury induced matrix metalloproteinase2 cleaves CXCL12 \pm (stromal cell derived factor) Tj ETQq1 1,0,784314,rgBT /Cve	2.0	30
24	Lighting the Fuse: Deconstructing Complex Network Interactions Using On-Demand Seizures. <i>Epilepsy Currents</i> , 2017, 17, 174-176.	0.4	0
25	Illuminating the Role for Chloride Dysregulation in Network Activity. <i>Epilepsy Currents</i> , 2016, 16, 258-260.	0.4	0
26	Fingerprints of Interictal Spikes: Can Imprints Deliver a Verdict on Their Role in Epilepsy?. <i>Epilepsy Currents</i> , 2016, 16, 41-42.	0.4	0
27	Facilitating Mitochondrial Calcium Uptake Improves Activation-Induced Cerebral Blood Flow and Behavior after mTBI. <i>Frontiers in Systems Neuroscience</i> , 2016, 10, 19.	1.2	18
28	Immunostaining of Biocytin-filled and Processed Sections for Neurochemical Markers. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	19
29	Dentate cannabinoid-sensitive interneurons undergo unique and selective strengthening of mutual synaptic inhibition in experimental epilepsy. <i>Neurobiology of Disease</i> , 2016, 89, 23-35.	2.1	13
30	Functional Reduction in Cannabinoid-Sensitive Heterotypic Inhibition of Dentate Basket Cells in Epilepsy: Impact on Network Rhythms. <i>Cerebral Cortex</i> , 2016, 26, 4299-4314.	1.6	24
31	Marching towards a Seizure: Spatio-Temporal Evolution of Preictal Activity. <i>Epilepsy Currents</i> , 2015, 15, 267-268.	0.4	3
32	Dentate total molecular layer interneurons mediate cannabinoid-sensitive inhibition. <i>Hippocampus</i> , 2015, 25, 884-889.	0.9	17
33	Fluid percussion injury device for the precise control of injury parameters. <i>Journal of Neuroscience Methods</i> , 2015, 248, 16-26.	1.3	14
34	Long-Lasting Suppression of Acoustic Startle Response after Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2015, 32, 801-810.	1.7	23
35	Toll-like receptor 4 enhancement of non-NMDA synaptic currents increases dentate excitability after brain injury. <i>Neurobiology of Disease</i> , 2015, 74, 240-253.	2.1	49
36	Electrophysiological monitoring of injury progression in the rat cerebellar cortex. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 197.	1.2	15

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37	Distinct effect of impact rise times on immediate and early neuropathology after brain injury in juvenile rats. <i>Journal of Neuroscience Research</i> , 2014, 92, 1350-1361.	1.3	21
38	Status epilepticus enhances tonic GABA currents and depolarizes GABA reversal potential in dentate fast-spiking basket cells. <i>Journal of Neurophysiology</i> , 2013, 109, 1746-1763.	0.9	57
39	Seizure-induced alterations in fast-spiking basket cell GABA currents modulate frequency and coherence of gamma oscillation in network simulations. <i>Chaos</i> , 2013, 23, 046109.	1.0	14
40	A Reinforcing Circuit Action of Extrasynaptic GABAA Receptor Modulators on Cerebellar Granule Cell Inhibition. <i>PLoS ONE</i> , 2013, 8, e72976.	1.1	10
41	Table-top air pressure-driven shock tube to induce a blast traumatic brain injury. , 2012, , .		1
42	Decrease in Tonic Inhibition Contributes to Increase in Dentate Semilunar Granule Cell Excitability after Brain Injury. <i>Journal of Neuroscience</i> , 2012, 32, 2523-2537.	1.7	99
43	Precisely controllable traumatic brain injury devices for rodent models. , 2011, , .		2
44	Developmental regulation and neuroprotective effects of striatal tonic GABAA currents. <i>Neuroscience</i> , 2010, 167, 644-655.	1.1	76
45	Modeling Circuit Alterations in Epilepsy. , 2008, , 89-111.		6
46	Topological Determinants of Epileptogenesis in Large-Scale Structural and Functional Models of the Dentate Gyrus Derived From Experimental Data. <i>Journal of Neurophysiology</i> , 2007, 97, 1566-1587.	0.9	206
47	Modeling the dentate gyrus. <i>Progress in Brain Research</i> , 2007, 163, 639-658.	0.9	46
48	Ethanol acts directly on extrasynaptic subtypes of GABAA receptors to increase tonic inhibition. <i>Alcohol</i> , 2007, 41, 211-221.	0.8	108
49	Contributions of the GABAA Receptor $\alpha 6$ Subunit to Phasic and Tonic Inhibition Revealed by a Naturally Occurring Polymorphism in the $\alpha 6$ Gene. <i>Journal of Neuroscience</i> , 2006, 26, 3357-3364.	1.7	88
50	Role of Mossy Fiber Sprouting and Mossy Cell Loss in Hyperexcitability: A Network Model of the Dentate Gyrus Incorporating Cell Types and Axonal Topography. <i>Journal of Neurophysiology</i> , 2005, 93, 437-453.	0.9	240
51	Impact of Heterogeneous Perisomatic IPSC Populations on Pyramidal Cell Firing Rates. <i>Journal of Neurophysiology</i> , 2004, 91, 2849-2858.	0.9	20
52	Rapid Deletion of Mossy Cells Does Not Result in a Hyperexcitable Dentate Gyrus: Implications for Epileptogenesis. <i>Journal of Neuroscience</i> , 2004, 24, 2259-2269.	1.7	106
53	Plasticity of interneuronal species diversity and parameter variance in neurological diseases. <i>Trends in Neurosciences</i> , 2004, 27, 504-510.	4.2	38
54	Post-Traumatic Hyperexcitability Is Not Caused by Impaired Buffering of Extracellular Potassium. <i>Journal of Neuroscience</i> , 2003, 23, 5865-5876.	1.7	36

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55	Postsynaptic effects of GABAergic synaptic diversity: regulation of neuronal excitability by changes in IPSC variance. <i>Neuropharmacology</i> , 2002, 43, 511-522.	2.0	36
56	H-channels in epilepsy: new targets for seizure control?. <i>Trends in Pharmacological Sciences</i> , 2002, 23, 552-557.	4.0	39
57	Mossy cells in epilepsy: rigor mortis or vigor mortis?. <i>Trends in Neurosciences</i> , 2002, 25, 140-144.	4.2	135
58	Long-term hyperexcitability in the hippocampus after experimental head trauma. <i>Annals of Neurology</i> , 2001, 50, 708-717.	2.8	225
59	Granule cell hyperexcitability in the early post-traumatic rat dentate gyrus: the "irritable mossy cell" hypothesis. <i>Journal of Physiology</i> , 2000, 524, 117-134.	1.3	181