

Per Jesper Sjøstrøm

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

7,841
citations

186265

28
h-index

161849

54
g-index

71
all docs

71
docs citations

71
times ranked

7909
citing authors

#	ARTICLE	IF	CITATIONS
1	Pre- and postsynaptically expressed spike-timing-dependent plasticity contribute differentially to neuronal learning. <i>PLoS Computational Biology</i> , 2022, 18, e1009409.	3.2	3
2	NMDA receptors in axons: there's no coincidence. <i>Journal of Physiology</i> , 2021, 599, 367-387.	2.9	20
3	Rare CASP6N73T variant associated with hippocampal volume exhibits decreased proteolytic activity, synaptic transmission defect, and neurodegeneration. <i>Scientific Reports</i> , 2021, 11, 12695.	3.3	8
4	The secret life of memory receptors. <i>ELife</i> , 2021, 10, .	6.0	0
5	Editorial: Latest Advances on Excitatory Synapse Biology. <i>Frontiers in Synaptic Neuroscience</i> , 2021, 13, 768651.	2.5	1
6	Grand Challenge at the Frontiers of Synaptic Neuroscience. <i>Frontiers in Synaptic Neuroscience</i> , 2021, 13, 748937.	2.5	4
7	Editorial: Methods for Synaptic Interrogation. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 23.	2.5	1
8	A Practical Guide to Using CV Analysis for Determining the Locus of Synaptic Plasticity. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 11.	2.5	23
9	A Step-by-Step Protocol for Optogenetic Kindling. <i>Frontiers in Neural Circuits</i> , 2020, 14, 3.	2.8	7
10	Novel Optogenetic Approaches in Epilepsy Research. <i>Frontiers in Neuroscience</i> , 2019, 13, 947.	2.8	29
11	An Optogenetic Kindling Model of Neocortical Epilepsy. <i>Scientific Reports</i> , 2019, 9, 5236.	3.3	54
12	Editorial overview: Neurobiology of learning and plasticity. <i>Current Opinion in Neurobiology</i> , 2019, 54, iii-vi.	4.2	0
13	Methylene blue inhibits Caspase-6 activity, and reverses Caspase-6-induced cognitive impairment and neuroinflammation in aged mice. <i>Acta Neuropathologica Communications</i> , 2019, 7, 210.	5.2	25
14	Towards resolving the presynaptic NMDA receptor debate. <i>Current Opinion in Neurobiology</i> , 2018, 51, 1-7.	4.2	68
15	Differential susceptibility of striatal, hippocampal and cortical neurons to Caspase-6. <i>Cell Death and Differentiation</i> , 2018, 25, 1319-1335.	11.2	14
16	Synapse Type-Dependent Expression of Calcium-Permeable AMPA Receptors. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 34.	2.5	25
17	CosMIC: A Consistent Metric for Spike Inference from Calcium Imaging. <i>Neural Computation</i> , 2018, 30, 2726-2756.	2.2	6
18	Functional consequences of pre- and postsynaptic expression of synaptic plasticity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160153.	4.0	50

#	ARTICLE	IF	CITATIONS
19	Differential Regulation of Evoked and Spontaneous Release by Presynaptic NMDA Receptors. <i>Neuron</i> , 2017, 96, 839-855.e5.	8.1	76
20	Unconventional NMDA Receptor Signaling. <i>Journal of Neuroscience</i> , 2017, 37, 10800-10807.	3.6	99
21	ABLE: An Activity-Based Level Set Segmentation Algorithm for Two-Photon Calcium Imaging Data. <i>ENeuro</i> , 2017, 4, ENEURO.0012-17.2017.	1.9	35
22	Synapse-specific expression of calcium-permeable AMPA receptors in neocortical layer 5. <i>Journal of Physiology</i> , 2016, 594, 837-861.	2.9	41
23	Neocortex: a lean mean memory storage machine. <i>Nature Neuroscience</i> , 2016, 19, 643-644.	14.8	9
24	In Vitro Investigation of Synaptic Plasticity. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.top087262.	0.3	11
25	Using Multiple Whole-Cell Recordings to Study Spike-Timing-Dependent Plasticity in Acute Neocortical Slices. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.prot091306.	0.3	14
26	Long-Term Potentiation by Theta-Burst Stimulation Using Extracellular Field Potential Recordings in Acute Hippocampal Slices. <i>Cold Spring Harbor Protocols</i> , 2016, 2016, pdb.prot091298.	0.3	15
27	Neurons diversify astrocytes in the adult brain through sonic hedgehog signaling. <i>Science</i> , 2016, 351, 849-854.	12.6	221
28	Functional plasticity at dendritic synapses. , 2016, , 505-556.		7
29	ISDN2014_0407: Optogenetic kindling of cortical circuits elicits epilepsy. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 122-122.	1.6	1
30	Synapse-type-specific plasticity in local circuits. <i>Current Opinion in Neurobiology</i> , 2015, 35, 127-135.	4.2	76
31	Unified pre- and postsynaptic long-term plasticity enables reliable and flexible learning. <i>ELife</i> , 2015, 4, .	6.0	44
32	A comparison of manual neuronal reconstruction from biocytin histology or 2-photon imaging: morphometry and computer modeling. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 65.	1.7	22
33	Neuronal morphometry directly from bitmap images. <i>Nature Methods</i> , 2014, 11, 982-984.	19.0	517
34	Probabilistic inference of synaptic dynamics in neocortical microcircuits. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	0
35	Probabilistic inference of short-term synaptic plasticity in neocortical microcircuits. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 75.	2.1	71
36	Target-cell-specific short-term plasticity in local circuits. <i>Frontiers in Synaptic Neuroscience</i> , 2013, 5, 11.	2.5	75

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37	How to train a neuron. <i>ELife</i> , 2013, 2, e00491.	6.0	0
38	Target-Specific Expression of Presynaptic NMDA Receptors in Neocortical Microcircuits. <i>Neuron</i> , 2012, 75, 451-466.	8.1	120
39	Spike-Timing-Dependent Plasticity: A Comprehensive Overview. <i>Frontiers in Synaptic Neuroscience</i> , 2012, 4, 2.	2.5	228
40	A history of spike-timing-dependent plasticity. <i>Frontiers in Synaptic Neuroscience</i> , 2011, 3, 4.	2.5	311
41	One cell to rule them all, and in the dendrites bind them. <i>Frontiers in Synaptic Neuroscience</i> , 2011, 3, 5.	2.5	19
42	Functional specificity of local synaptic connections in neocortical networks. <i>Nature</i> , 2011, 473, 87-91.	27.8	719
43	<i>Frontiers</i> , 2010, , 197-203.		0
44	A piece of the neocortical puzzle: the pyramidal-Martinotti cell reciprocating principle. <i>Journal of Physiology</i> , 2009, 587, 5301-5302.	2.9	5
45	Traveling waves in developing cerebellar cortex mediated by asymmetrical Purkinje cell connectivity. <i>Nature Neuroscience</i> , 2009, 12, 463-473.	14.8	170
46	Dendritic Excitability and Synaptic Plasticity. <i>Physiological Reviews</i> , 2008, 88, 769-840.	28.8	607
47	Multiple forms of long-term plasticity at unitary neocortical layer 5 synapses. <i>Neuropharmacology</i> , 2007, 52, 176-184.	4.1	82
48	A Cooperative Switch Determines the Sign of Synaptic Plasticity in Distal Dendrites of Neocortical Pyramidal Neurons. <i>Neuron</i> , 2006, 51, 227-238.	8.1	366
49	Optimal Information Storage in Noisy Synapses under Resource Constraints. <i>Neuron</i> , 2006, 52, 409-423.	8.1	76
50	Novel presynaptic mechanisms for coincidence detection in synaptic plasticity. <i>Current Opinion in Neurobiology</i> , 2006, 16, 312-322.	4.2	104
51	Highly Nonrandom Features of Synaptic Connectivity in Local Cortical Circuits. <i>PLoS Biology</i> , 2005, 3, e68.	5.6	1,222
52	Endocannabinoid-Dependent Neocortical Layer-5 LTD in the Absence of Postsynaptic Spiking. <i>Journal of Neurophysiology</i> , 2004, 92, 3338-3343.	1.8	85
53	A proportional but slower NMDA potentiation follows AMPA potentiation in LTP. <i>Nature Neuroscience</i> , 2004, 7, 518-524.	14.8	139
54	Neocortical LTD via Coincident Activation of Presynaptic NMDA and Cannabinoid Receptors. <i>Neuron</i> , 2003, 39, 641-654.	8.1	532

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55	Rate and timing in cortical synaptic plasticity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 1851-1857.	4.0	28
56	Spike timing, calcium signals and synaptic plasticity. Current Opinion in Neurobiology, 2002, 12, 305-314.	4.2	199
57	Rate, Timing, and Cooperativity Jointly Determine Cortical Synaptic Plasticity. Neuron, 2001, 32, 1149-1164.	8.1	1,022
58	Artificial neural network-aided image analysis system for cell counting. , 1999, 36, 18-26.		54
59	Spike-timing dependent plasticity. Frontiers Research Topics, 0, , .	0.2	17