Klaus M Stiefel

List of Publications by Year
in descending order

28	746	623734	610901
papers	citations	14 h-index	24 g-index

35	35	35	825
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mutational analysis of dendritic Ca2+ kinetics in rodent Purkinje cells: role of parvalbumin and calbindin D28k. Journal of Physiology, 2003, 551, 13-32.	2.9	148
2	Cholinergic Neuromodulation Changes Phase Response Curve Shape and Type in Cortical Pyramidal Neurons. PLoS ONE, 2008, 3, e3947.	2.5	116
3	The effects of cholinergic neuromodulation on neuronal phase-response curves of modeled cortical neurons. Journal of Computational Neuroscience, 2009, 26, 289-301.	1.0	91
4	Origin of intrinsic irregular firing in cortical interneurons. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7886-7891.	7.1	61
5	Mapping Function Onto Neuronal Morphology. Journal of Neurophysiology, 2007, 98, 513-526.	1.8	49
6	Neurons as oscillators. Journal of Neurophysiology, 2016, 116, 2950-2960.	1.8	49
7	An Inverse Approach for Elucidating Dendritic Function. Frontiers in Computational Neuroscience, 2010, 4, 128.	2.1	26
8	A comparison of methods to determine neuronal phase-response curves. Frontiers in Neuroinformatics, 2010, 4, 6.	2.5	24
9	Physiological Dynamics in Demyelinating Diseases: Unraveling Complex Relationships through Computer Modeling. International Journal of Molecular Sciences, 2015, 16, 21215-21236.	4.1	23
10	Intrinsic subthreshold oscillations extend the influence of inhibitory synaptic inputs on cortical pyramidal neurons. European Journal of Neuroscience, 2010, 31, 1019-1026.	2.6	20
11	Proposed evolutionary changes in the role of myelin. Frontiers in Neuroscience, 2013, 7, 202.	2.8	19
12	Synaptic plasticity in the absence of backpropagating spikes of layer II inputs to layer V pyramidal cells in rat visual cortex. European Journal of Neuroscience, 2005, 21, 2605-2610.	2.6	16
13	Phase Dependent Sign Changes of GABAergic Synaptic Input Explored In-Silicio and In-Vitro. Journal of Computational Neuroscience, 2005, 19, 71-85.	1.0	15
14	Irregular Firing of Isolated Cortical Interneurons in Vitro Driven by Intrinsic Stochastic Mechanisms. Neural Computation, 2008, 20, 44-64.	2.2	15
15	Systematic mapping between dendritic function and structure. Network: Computation in Neural Systems, 2009, 20, 69-105.	3.6	15
16	Model of traveling waves in a coral nerve network. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2008, 194, 195-200.	1.6	10
17	The Greenâ€™s function formalism as a bridge between single- and multi-compartmental modeling. Biological Cybernetics, 2013, 107, 685-694.	1.3	9
18	Evolutionary trends in large pelagic filter-feeders. Historical Biology, 2021, 33, 1477-1488.	1.4	9

#	Article	IF	Citations
19	Wide-Field Motion Integration in Fly VS Cells: Insights from an Inverse Approach. PLoS Computational Biology, 2010, 6, e1000932.	3.2	6
20	Sea Urchins as an Inspiration for Robotic Designs. Journal of Marine Science and Engineering, 2018, 6, 112.	2.6	5
21	Temporal Order Detection and Coding in Nervous Systems. Neural Computation, 2013, 25, 510-531.	2.2	4
22	Why are There No Eusocial Fishes?. Biological Theory, 2013, 7, 204-210.	1.5	3
23	Tool Use by Four Species of Indo-Pacific Sea Urchins. Journal of Marine Science and Engineering, 2019, 7, 69.	2.6	3
24	Multiscale Modeling of Cortical Neural Networks. , 2009, , .		1
25	Eyes, Camera, Action!. Scientific American Mind, 2014, 25, 52-58.	0.0	1
26	Dishonest Signaling in Vertebrate Eusociality. Biological Theory, 2014, 9, 325-330.	1.5	1
27	Why is There No Successful Whole Brain Simulation (Yet)?. Biological Theory, 2019, 14, 122-130.	1.5	1
28	A computational model of the shrimp-goby escape and communication system. Journal of Computational Neuroscience, 2021, 49, 395-405.	1.0	1