

# Klaus M Stiefel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5692130/publications.pdf>

Version: 2024-02-01

28  
papers

746  
citations

623734

14  
h-index

610901

24  
g-index

35  
all docs

35  
docs citations

35  
times ranked

825  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary trends in large pelagic filter-feeders. <i>Historical Biology</i> , 2021, 33, 1477-1488.	1.4	9
2	A computational model of the shrimp-goby escape and communication system. <i>Journal of Computational Neuroscience</i> , 2021, 49, 395-405.	1.0	1
3	Tool Use by Four Species of Indo-Pacific Sea Urchins. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 69.	2.6	3
4	Why is There No Successful Whole Brain Simulation (Yet)?. <i>Biological Theory</i> , 2019, 14, 122-130.	1.5	1
5	Sea Urchins as an Inspiration for Robotic Designs. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 112.	2.6	5
6	Neurons as oscillators. <i>Journal of Neurophysiology</i> , 2016, 116, 2950-2960.	1.8	49
7	Physiological Dynamics in Demyelinating Diseases: Unraveling Complex Relationships through Computer Modeling. <i>International Journal of Molecular Sciences</i> , 2015, 16, 21215-21236.	4.1	23
8	Eyes, Camera, Action!. <i>Scientific American Mind</i> , 2014, 25, 52-58.	0.0	1
9	Dishonest Signaling in Vertebrate Eusociality. <i>Biological Theory</i> , 2014, 9, 325-330.	1.5	1
10	Temporal Order Detection and Coding in Nervous Systems. <i>Neural Computation</i> , 2013, 25, 510-531.	2.2	4
11	The Greenâ€™s function formalism as a bridge between single- and multi-compartmental modeling. <i>Biological Cybernetics</i> , 2013, 107, 685-694.	1.3	9
12	Why are There No Eusocial Fishes?. <i>Biological Theory</i> , 2013, 7, 204-210.	1.5	3
13	Origin of intrinsic irregular firing in cortical interneurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7886-7891.	7.1	61
14	Proposed evolutionary changes in the role of myelin. <i>Frontiers in Neuroscience</i> , 2013, 7, 202.	2.8	19
15	Intrinsic subthreshold oscillations extend the influence of inhibitory synaptic inputs on cortical pyramidal neurons. <i>European Journal of Neuroscience</i> , 2010, 31, 1019-1026.	2.6	20
16	An Inverse Approach for Elucidating Dendritic Function. <i>Frontiers in Computational Neuroscience</i> , 2010, 4, 128.	2.1	26
17	A comparison of methods to determine neuronal phase-response curves. <i>Frontiers in Neuroinformatics</i> , 2010, 4, 6.	2.5	24
18	Wide-Field Motion Integration in Fly VS Cells: Insights from an Inverse Approach. <i>PLoS Computational Biology</i> , 2010, 6, e1000932.	3.2	6

#	ARTICLE	IF	CITATIONS
19	Multiscale Modeling of Cortical Neural Networks. , 2009, , .		1
20	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
21	Systematic mapping between dendritic function and structure. Network: Computation in Neural Systems, 2009, 20, 69-105.	3.6	15
22	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
23	Irregular Firing of Isolated Cortical Interneurons in Vitro Driven by Intrinsic Stochastic Mechanisms. Neural Computation, 2008, 20, 44-64.	2.2	15
24	Cholinergic Neuromodulation Changes Phase Response Curve Shape and Type in Cortical Pyramidal Neurons. PLoS ONE, 2008, 3, e3947.	2.5	116
25	Mapping Function Onto Neuronal Morphology. Journal of Neurophysiology, 2007, 98, 513-526.	1.8	49
26	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
27	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
28	Mutational analysis of dendritic Ca <sup>2+</sup> kinetics in rodent Purkinje cells: role of parvalbumin and calbindin D28k. Journal of Physiology, 2003, 551, 13-32.	2.9	148