Sten RÃ¼diger

List of Publications by Year
in descending order

18 papers	351 citations	759233 12 h-index	839539 18 g-index
18 all docs	18 docs citations	18 times ranked	451 citing authors

#	ARTICLE	IF	CITATIONS
1	Epidemics with mutating infectivity on small-world networks. Scientific Reports, 2020, 10, 5919.	3.3	22
2	Modeling of Stochastic $\mathrm{{Ca}}^{2+}$ Signals. Springer Series in Computational Neuroscience, 2019, , 91-114.	0.3	3
3	New Insights on Temporal Lobe Epilepsy Based on Plasticity-Related Network Changes and High-Order Statistics. Molecular Neurobiology, 2018, 55, 3990-3998.	4.0	13
4	Determining the Roles of Inositol Trisphosphate Receptors in Neurodegeneration: Interdisciplinary Perspectives on a Complex Topic. Molecular Neurobiology, 2017, 54, 6870-6884.	4.0	14
5	Particle-Based Multiscale Modeling of Calcium Puff Dynamics. Multiscale Modeling and Simulation, 2016, 14, 997-1016.	1.6	20
6	Modulation of Elementary Calcium Release Mediates a Transition from Puffs to Waves in an IP3R Cluster Model. PLoS Computational Biology, 2015, 11, e1003965.	3.2	25
7	Accurate Langevin approaches to simulate Markovian channel dynamics. Physical Biology, 2015, 12, 061001.	1.8	13
8	Ryanodine Receptor Activation Induces Long-Term Plasticity of Spine Calcium Dynamics. PLoS Biology, 2015, 13, e1002181.	5.6	48
9	Degree Correlations Optimize Neuronal Network Sensitivity to Sub-Threshold Stimuli. PLoS ONE, 2015, 10, e0121794.	2.5	22
10	Stochastic models of intracellular calcium signals. Physics Reports, 2014, 534, 39-87.	25.6	40
11	Functional regulation of neuronal nitric oxide synthase expression and activity in the rat retina. Experimental Neurology, 2014, 261, 510-517.	4.1	8
12	Frequency and Relative Prevalence of Calcium Blips and Puffs in a Model of Small IP3R Clusters. Biophysical Journal, 2014, 106, 2353-2363.	0.5	13
13	Langevin approach for stochastic Hodgkin–Huxley dynamics with discretization of channel open fraction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 3223-3227.	2.1	5
14	Channel-based Langevin approach for the stochastic Hodgkin-Huxley neuron. Physical Review E, 2013, 87, 012716.	2.1	13
15	Diffusive spatio-temporal noise in a first-passage time model for intracellular calcium release. Journal of Chemical Physics, 2013, 138, 154103.	3.0	38
16	Termination of Ca2+ Release for Clustered IP3R Channels. PLoS Computational Biology, 2012, 8, e1002485.	3.2	24
17	Mode interaction in rotating Rayleigh–Bénard convection. Fluid Dynamics Research, 2003, 33, 477-492.	1.3	9
18	Pattern formation in Rayleigh-Bénard convection in a cylindrical container. Physical Review E, 2000, 62, 4927-4931.	2.1	21