

# Darya Verveyko

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

99  
citations

1684188  
5  
h-index

1474206  
9  
g-index

27  
all docs

27  
docs citations

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times ranked

82  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sodiumâ€“Calcium Exchanger Can Account for Regenerative Ca <sup>2+</sup> Entry in Thin Astrocyte Processes. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 250.	3.7	33
2	Modeling of Astrocyte Networks: Toward Realistic Topology and Dynamics. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 645068.	3.7	21
3	Simple model for temperature control of glycolytic oscillations. <i>Physical Review E</i> , 2011, 83, 062901.	2.1	8
4	Mathematical model of chaotic oscillations and oscillatory entrainment in glycolysis originated from periodic substrate supply. <i>Chaos</i> , 2017, 27, 083104.	2.5	8
5	Turing-like structures in a functional model of cortical spreading depression. <i>Physical Review E</i> , 2017, 96, 062409.	2.1	5
6	Self-sustained biochemical oscillations and waves with a feedback determined only by boundary conditions. <i>Physical Review E</i> , 2010, 81, 052901.	2.1	4
7	Noise-sustained patterns in a model of volume-coupled neural tissue. <i>Chaos</i> , 2018, 28, 106326.	2.5	4
8	Translating from Na <sup>+</sup> to Ca <sup>2+</sup> : Na/Ca-exchanger exerts Na <sup>+</sup> -dependent control over astrocytic Ca <sup>2+</sup> oscillations. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	4
9	Connectivity promotes repeatable activation patterns in the model of astrocytic networks. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	4
10	Cluster structure of condensed media. <i>Moscow University Physics Bulletin (English Translation of)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 0,4 2	0.4	2
11	Traveling glycolytic waves induced by a temperature gradient and determination of diffusivities for dense media. <i>Physical Review E</i> , 2012, 86, 012901.	2.1	2
12	Computational analysis of glycolytic reaction in open spatial reactor. <i>Applied Mathematical Modelling</i> , 2014, 38, 4796-4803.	4.2	1
13	Computational model of cerebral blood flow redistribution during cortical spreading depression. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
14	When Na modulates Ca: nonlinear interplay between Na/Ca-exchanger and IP3-mediated Ca oscillations in astrocytes. , 2019, , .		1
15	Calcium activity in a sponge astrocyte model with AVF-parameter control. , 2020, , .		1
16	Model of glycolytic traveling waves control in 3D spatial reactor. , 2009, , .		0
17	NON-TURING MECHANISM OF SELF-SUSTAINED STRUCTURE FORMATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013, 23, 1350037.	1.7	0
18	Spatio-temporal cerebral blood flow perfusion patterns in cortical spreading depression. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 1. BMC Neuroscience, 2017, 18, .	1.9	0
20	Algorithm for Randomized Vascular Network Topology Construction. , 2020, , .		0
21	Simulation of Propagated Vascular Responses at the Vascular Bifurcation. , 2020, , .		0
22	Modulatory effect of NCX on IP3-dependent Ca <sup>2+</sup> oscillations in astrocytes. , 2021, , .		0
23	Good neighbors? Astrocyte connectivity defines repeatable patterns of calcium waves. , 2021, , .		0
24	Mechanisms for the target patterns formation in a stochastic bistable excitable medium. , 2018, , .		0
25	Raindrops of synaptic noise on dual excitability landscape: an approach to astrocyte network modelling. , 2018, , .		0
26	Modeling cellular parquet: endothelially mediated vascular signaling. , 2019, , .		0
27	The role of NCX in initiation and expansion of astroglial Ca <sup>2+</sup> events in a distributed model. , 2020, , .		0