

Darya Verveyko

List of Publications by Year in descending order

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27
papers

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1684188
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all docs

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docs citations

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times ranked

82
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Astrocyte Networks: Toward Realistic Topology and Dynamics. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 645068.	3.7	21
2	Modulatory effect of NCX on IP3-dependent Ca ²⁺ oscillations in astrocytes. , 2021, , .		0
3	Good neighbors? Astrocyte connectivity defines repeatable patterns of calcium waves. , 2021, , .		0
4	Translating from Na ⁺ to Ca ²⁺ : Na/Ca-exchanger exerts Na ⁺ -dependent control over astrocytic Ca ²⁺ oscillations. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	4
5	Connectivity promotes repeatable activation patterns in the model of astrocytic networks. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	4
6	Algorithm for Randomized Vascular Network Topology Construction. , 2020, , .		0
7	Simulation of Propagated Vascular Responses at the Vascular Bifurcation. , 2020, , .		0
8	Calcium activity in a sponge astrocyte model with AVF-parameter control. , 2020, , .		1
9	The role of NCX in initiation and expansion of astroglial Ca ²⁺ events in a distributed model. , 2020, , .		0
10	When Na modulates Ca: nonlinear interplay between Na/Ca-exchanger and IP3-mediated Ca oscillations in astrocytes. , 2019, , .		1
11	Modeling cellular parquet: endothelially mediated vascular signaling. , 2019, , .		0
12	Noise-sustained patterns in a model of volume-coupled neural tissue. <i>Chaos</i> , 2018, 28, 106326.	2.5	4
13	Sodiumâ€“Calcium Exchanger Can Account for Regenerative Ca ²⁺ Entry in Thin Astrocyte Processes. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 250.	3.7	33
14	Mechanisms for the target patterns formation in a stochastic bistable excitable medium. , 2018, , .		0
15	Raindrops of synaptic noise on dual excitability landscape: an approach to astrocyte network modelling. , 2018, , .		0
16	Spatio-temporal cerebral blood flow perfusion patterns in cortical spreading depression. , 2017, , .		0
17	Mathematical model of chaotic oscillations and oscillatory entrainment in glycolysis originated from periodic substrate supply. <i>Chaos</i> , 2017, 27, 083104.	2.5	8
18	Turing-like structures in a functional model of cortical spreading depression. <i>Physical Review E</i> , 2017, 96, 062409.	2.1	5

#	ARTICLE	IF	CITATIONS
19	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 1. BMC Neuroscience, 2017, 18, .	1.9	0
20	Computational model of cerebral blood flow redistribution during cortical spreading depression. Proceedings of SPIE, 2016, , .	0.8	1
21	Computational analysis of glycolytic reaction in open spatial reactor. Applied Mathematical Modelling, 2014, 38, 4796-4803.	4.2	1
22	NON-TURING MECHANISM OF SELF-SUSTAINED STRUCTURE FORMATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350037.	1.7	0
23	Traveling glycolytic waves induced by a temperature gradient and determination of diffusivities for dense media. Physical Review E, 2012, 86, 012901.	2.1	2
24	Simple model for temperature control of glycolytic oscillations. Physical Review E, 2011, 83, 062901.	2.1	8
25	Cluster structure of condensed media. Moscow University Physics Bulletin (English Translation of) Tj ETQq1 1 0.784314 rgBT ₂ /Overlo 0,4	0.4	0
26	Self-sustained biochemical oscillations and waves with a feedback determined only by boundary conditions. Physical Review E, 2010, 81, 052901.	2.1	4
27	Model of glycolytic traveling waves control in 3D spatial reactor. , 2009, , .		0