

Victor Matveev

List of Publications by Year in descending order

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36
papers

913
citations

471061

17
h-index

525886

27
g-index

38
all docs

38
docs citations

38
times ranked

840
citing authors

#	ARTICLE	IF	CITATIONS
1	Implications of All-or-None Synaptic Transmission and Short-Term Depression beyond Vesicle Depletion: A Computational Study. <i>Journal of Neuroscience</i> , 2000, 20, 1575-1588.	1.7	96
2	Facilitation through Buffer Saturation: Constraints on Endogenous Buffering Properties. <i>Biophysical Journal</i> , 2004, 86, 2691-2709.	0.2	94
3	N-type Ca ²⁺ channels carry the largest current: implications for nanodomains and transmitter release. <i>Nature Neuroscience</i> , 2010, 13, 1348-1350.	7.1	93
4	New and Corrected Simulations of Synaptic Facilitation. <i>Biophysical Journal</i> , 2002, 83, 1368-1373.	0.2	83
5	Ca ²⁺ channel clustering with insulin-containing granules is disturbed in type 2 diabetes. <i>Journal of Clinical Investigation</i> , 2017, 127, 2353-2364.	3.9	70
6	Calcium cooperativity of exocytosis as a measure of Ca ²⁺ channel domain overlap. <i>Brain Research</i> , 2011, 1398, 126-138.	1.1	49
7	Reduced endogenous Ca ²⁺ buffering speeds active zone Ca ²⁺ signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3075-84.	3.3	49
8	Complex-temperature properties of the two-dimensional Ising model for nonzero magnetic field. <i>Physical Review E</i> , 1996, 53, 254-267.	0.8	41
9	Complex-temperature singularities in Potts models on the square lattice. <i>Physical Review E</i> , 1996, 54, 6174-6185.	0.8	38
10	Complex-temperature singularities in the d=2 Ising model: triangular and honeycomb lattices. <i>Journal of Physics A</i> , 1996, 29, 803-823.	1.6	33
11	Loss of phase-locking in non-weakly coupled inhibitory networks of type-I model neurons. <i>Journal of Computational Neuroscience</i> , 2009, 26, 303-320.	0.6	32
12	Residual Bound Ca ²⁺ Can Account for the Effects of Ca ²⁺ Buffers on Synaptic Facilitation. <i>Journal of Neurophysiology</i> , 2006, 96, 3389-3397.	0.9	31
13	A connection between complex-temperature properties of the 1D and 2D spin s Ising model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 204, 353-358.	0.9	25
14	Ca ²⁺ -dependent Inactivation of CaV1.2 Channels Prevents Gd ³⁺ Block: Does Ca ²⁺ Block the Pore of Inactivated Channels?. <i>Journal of General Physiology</i> , 2007, 129, 477-483.	0.9	25
15	Ca ²⁺ Current versus Ca ²⁺ Channel Cooperativity of Exocytosis. <i>Journal of Neuroscience</i> , 2009, 29, 12196-12209.	1.7	25
16	Some new results on Yang-Lee zeros of the Ising model partition function. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 215, 271-279.	0.9	20
17	Capturing the bursting dynamics of a two-cell inhibitory network using a one-dimensional map. <i>Journal of Computational Neuroscience</i> , 2007, 23, 169-187.	0.6	19
18	Multistability of clustered states in a globally inhibitory network. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 253-263.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Neuromodulatory changes in short-term synaptic dynamics may be mediated by two distinct mechanisms of presynaptic calcium entry. <i>Journal of Computational Neuroscience</i> , 2012, 33, 573-585.	0.6	15
20	On properties of the Ising model for complex energy/temperature and magnetic field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 135002.	0.7	14
21	PadÃ© Approximation of a Stationary Single-Channel Ca ²⁺ Nanodomain. <i>Biophysical Journal</i> , 2016, 111, 2062-2074.	0.2	11
22	Extension of Rapid Buffering Approximation to Ca ²⁺ Buffers with Two Binding Sites. <i>Biophysical Journal</i> , 2018, 114, 1204-1215.	0.2	8
23	Complex-temperature phase diagram of the 1D Z6 clock model and its connection with higher-dimensional models. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 221, 343-349.	0.9	7
24	Efficient Approximations for Stationary Single-Channel Ca ²⁺ Nanodomains across Length Scales. <i>Biophysical Journal</i> , 2020, 119, 1239-1254.	0.2	4
25	Non-weak inhibition and phase resetting at negative values of phase in cells with fast-slow dynamics at hyperpolarized potentials. <i>Journal of Computational Neuroscience</i> , 2011, 31, 31-42.	0.6	3
26	Stationary Ca ²⁺ nanodomains in the presence of buffers with two binding sites. <i>Biophysical Journal</i> , 2021, 120, 1942-1956.	0.2	3
27	Short-Term Synaptic Plasticity in Central Pattern Generators. , 2014, , 1-14.		2
28	Ca ²⁺ -buffering as a mechanism of short-term synaptic plasticity. <i>BMC Neuroscience</i> , 2013, 14, .	0.8	1
29	Calcium-Dependent Exocytosis, <i>Biophysical Models of</i> . , 2014, , 1-17.		1
30	Effect of spatial arrangement of presynaptic calcium channels on the calcium current cooperativity of neurotransmitter release. <i>BMC Neuroscience</i> , 2011, 12, .	0.8	0
31	NEGATIVE PHASE AND LEADER SWITCHING IN NON-WEAKLY COUPLED TWO-CELL INHIBITORY NETWORKS. , 2008, , .		0
32	Facilitation, <i>Biophysical Models</i> . , 2014, , 1-6.		0
33	<i>Biophysical Models of Calcium-Dependent Exocytosis</i> . , 2020, , 1-18.		0
34	Short-Term Synaptic Plasticity in Central Pattern Generators. , 2022, , 3107-3118.		0
35	Facilitation, <i>Biophysical Models</i> . , 2022, , 1391-1395.		0
36	<i>Biophysical Models of Calcium-Dependent Exocytosis</i> . , 2022, , 468-484.		0