

Evgeni V Nikolaev

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

882
citations

840585

11
h-index

940416

16
g-index

20
all docs

20
docs citations

20
times ranked

1026
citing authors

#	ARTICLE	IF	CITATIONS
1	Flux Coupling Analysis of Genome-Scale Metabolic Network Reconstructions. <i>Genome Research</i> , 2004, 14, 301-312.	2.4	320
2	Continuation techniques and interactive software for bifurcation analysis of ODEs and iterated maps. <i>Physica D: Nonlinear Phenomena</i> , 1993, 62, 360-371.	1.3	208
3	Nicotinamide mononucleotide synthetase is the key enzyme for an alternative route of NAD biosynthesis in <i>Francisella tularensis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3083-3088.	3.3	70
4	Elucidation and Structural Analysis of Conserved Pools for Genome-Scale Metabolic Reconstructions. <i>Biophysical Journal</i> , 2005, 88, 37-49.	0.2	45
5	Review of the BRENDA Database. <i>Metabolic Engineering</i> , 2003, 5, 71-73.	3.6	41
6	The elucidation of metabolic pathways and their improvements using stable optimization of large-scale kinetic models of cellular systems. <i>Metabolic Engineering</i> , 2010, 12, 26-38.	3.6	36
7	In-phase and antiphase self-oscillations in a model of two electrically coupled pacemakers. <i>Biological Cybernetics</i> , 1994, 71, 153-160.	0.6	34
8	A Computational Procedure for Optimal Engineering Interventions Using Kinetic Models of Metabolism. <i>Biotechnology Progress</i> , 2006, 22, 1507-1517.	1.3	31
9	Quorum-Sensing Synchronization of Synthetic Toggle Switches: A Design Based on Monotone Dynamical Systems Theory. <i>PLoS Computational Biology</i> , 2016, 12, e1004881.	1.5	25
10	A Computational Procedure for Optimal Engineering Interventions Using Kinetic Models of Metabolism. <i>Biotechnology Progress</i> , 2006, 22, 1507-1517.	1.3	16
11	Fundamental limitation of the instantaneous approximation in fold-change detection models. <i>IET Systems Biology</i> , 2015, 9, 1-15.	0.8	13
12	Sensitivity and control analysis of periodically forced reaction networks using the Green's function method. <i>Journal of Theoretical Biology</i> , 2007, 247, 442-461.	0.8	11
13	Immunobiochemical Reconstruction of Influenza Lung Infection-Melanoma Skin Cancer Interactions. <i>Frontiers in Immunology</i> , 2019, 10, 4.	2.2	11
14	Subharmonics and Chaos in Simple Periodically Forced Biomolecular Models. <i>Biophysical Journal</i> , 2018, 114, 1232-1240.	0.2	8
15	Computer models of bacterial cells: from generalized coarsegrained to genome-specific modular models. <i>Journal of Physics: Conference Series</i> , 2006, 46, 322-326.	0.3	7
16	Modeling of coupled transport of ions and zwitterions across porous ion exchange membranes. <i>Journal of Membrane Science</i> , 1993, 79, 211-226.	4.1	3
17	Scale-invariance in singularly perturbed systems. , 2014, , .		2
18	Multi-scale modeling of neuronal adaptation mediated by angiotensin II in the central regulation of blood pressure. <i>FASEB Journal</i> , 2008, 22, 756.2.	0.2	0