

Pearu Peterson

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

29,026
citations

623734

14
h-index

794594

19
g-index

22
all docs

22
docs citations

22
times ranked

33054
citing authors

#	ARTICLE	IF	CITATIONS
1	SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , 2020, 17, 261-272.	19.0	17,539
2	Array programming with NumPy. <i>Nature</i> , 2020, 585, 357-362.	27.8	10,143
3	F2PY: a tool for connecting Fortran and Python programs. <i>International Journal of Computational Science and Engineering</i> , 2009, 4, 296.	0.5	186
4	Application of regularized Richardson-Lucy algorithm for deconvolution of confocal microscopy images. <i>Journal of Microscopy</i> , 2011, 243, 124-140.	1.8	75
5	Analysis of Molecular Movement Reveals Latticelike Obstructions to Diffusion in Heart Muscle Cells. <i>Biophysical Journal</i> , 2012, 102, 739-748.	0.5	31
6	Restricted ADP movement in cardiomyocytes: Cytosolic diffusion obstacles are complemented with a small number of open mitochondrial voltage-dependent anion channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 97, 197-203.	1.9	30
7	Long-time behaviour of soliton ensembles. Part I – Emergence of ensembles. <i>Chaos, Solitons and Fractals</i> , 2002, 14, 1413-1424.	5.1	29
8	Tight Coupling of Na ⁺ /K ⁺ -ATPase with Glycolysis Demonstrated in Permeabilized Rat Cardiomyocytes. <i>PLoS ONE</i> , 2014, 9, e99413.	2.5	29
9	On the long-time behaviour of soliton ensembles. <i>Mathematics and Computers in Simulation</i> , 2003, 62, 137-147.	4.4	24
10	Long-time behaviour of soliton ensembles. Part II – Periodical patterns of trajectories. <i>Chaos, Solitons and Fractals</i> , 2003, 15, 29-40.	5.1	23
11	Real-time determination of sarcomere length of a single cardiomyocyte during contraction. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 304, C519-C531.	4.6	22
12	A direct and inverse problem for wave crests modelled by interactions of two solitons. <i>Physica D: Nonlinear Phenomena</i> , 2000, 141, 316-332.	2.8	21
13	Molecular Dynamics Simulations of Creatine Kinase and Adenine Nucleotide Translocase in Mitochondrial Membrane Patch. <i>Journal of Biological Chemistry</i> , 2012, 287, 7467-7476.	3.4	20
14	Sensitivity of the inverse wave crest problem. <i>Wave Motion</i> , 2001, 34, 391-399.	2.0	14
15	Bidirectionality and Compartmentation of Metabolic Fluxes Are Revealed in the Dynamics of Isotopomer Networks. <i>International Journal of Molecular Sciences</i> , 2009, 10, 1697-1718.	4.1	12
16	Reconstruction of multi-soliton interactions using crest data for (2+1)-dimensional KdV type equations. <i>Physica D: Nonlinear Phenomena</i> , 2002, 171, 221-235.	2.8	5
17	Symbolic flux analysis for genome-scale metabolic networks. <i>BMC Systems Biology</i> , 2011, 5, 81.	3.0	3
18	Cross-Bridge Group Ensembles Describing Cooperativity in Thermodynamically Consistent Way. <i>PLoS ONE</i> , 2015, 10, e0137438.	2.5	3

#	ARTICLE	IF	CITATIONS
19	Mapping Diffusion Coefficients of Fluorescent Dyes in Cardiomyocytes. Biophysical Journal, 2011, 100, 470a.	0.5	0
20	Sensitivity Analysis of Flux Determination in Heart by H218O -provided Labeling Using a Dynamic Isotopologue Model of Energy Transfer Pathways. PLoS Computational Biology, 2012, 8, e1002795.	3.2	0
21	Incorporating Cooperativity into Huxley-Type Cross-Bridge Models in Thermodynamically Consistent Way. Biophysical Journal, 2012, 102, 357a.	0.5	0