

Pearu Peterson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

19
papers

9,931
citations

14
h-index

22
g-index

22
ext. papers

19,148
ext. citations

6.6
avg, IF

5.58
L-index

#	Paper	IF	Citations
19	SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , 2020 , 17, 261-272	21.6	6244
18	Array programming with NumPy. <i>Nature</i> , 2020 , 585, 357-362	50.4	2950
17	F2PY: a tool for connecting Fortran and Python programs. <i>International Journal of Computational Science and Engineering</i> , 2009 , 4, 296	0.4	152
16	Application of regularized Richardson-Lucy algorithm for deconvolution of confocal microscopy images. <i>Journal of Microscopy</i> , 2011 , 243, 124-40	1.9	53
15	Analysis of molecular movement reveals latticelike obstructions to diffusion in heart muscle cells. <i>Biophysical Journal</i> , 2012 , 102, 739-48	2.9	26
14	Long-time behaviour of soliton ensembles. Part I Emergence of ensembles. <i>Chaos, Solitons and Fractals</i> , 2002 , 14, 1413-1424	9.3	26
13	On the long-time behaviour of soliton ensembles. <i>Mathematics and Computers in Simulation</i> , 2003 , 62, 137-147	3.3	23
12	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	5.8	20
11	Tight coupling of Na ⁺ /K ⁺ -ATPase with glycolysis demonstrated in permeabilized rat cardiomyocytes. <i>PLoS ONE</i> , 2014 , 9, e99413	3.7	20
10	Real-time determination of sarcomere length of a single cardiomyocyte during contraction. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 304, C519-31	5.4	19
9	Long-time behaviour of soliton ensembles. Part II Periodical patterns of trajectories. <i>Chaos, Solitons and Fractals</i> , 2003 , 15, 29-40	9.3	19
8	Molecular dynamics simulations of creatine kinase and adenine nucleotide translocase in mitochondrial membrane patch. <i>Journal of Biological Chemistry</i> , 2012 , 287, 7467-76	5.4	18
7	A direct and inverse problem for wave crests modelled by interactions of two solitons. <i>Physica D: Nonlinear Phenomena</i> , 2000 , 141, 316-332	3.3	17
6	Bidirectionality and compartmentation of metabolic fluxes are revealed in the dynamics of isotopomer networks. <i>International Journal of Molecular Sciences</i> , 2009 , 10, 1697-718	6.3	11
5	Sensitivity of the inverse wave crest problem. <i>Wave Motion</i> , 2001 , 34, 391-399	1.8	10
4	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	3.3	5
3	Symbolic flux analysis for genome-scale metabolic networks. <i>BMC Systems Biology</i> , 2011 , 5, 81	3.5	3

- 2 Cross-Bridge Group Ensembles Describing Cooperativity in Thermodynamically Consistent Way. *PLoS ONE*, **2015**, 10, e0137438 3-7 3
- 1 Sensitivity analysis of flux determination in heart by $H^{13}C$ -provided labeling using a dynamic Isotopologue model of energy transfer pathways. *PLoS Computational Biology*, **2012**, 8, e1002795 5