

John Guckenheimer

List of Publications by Citations

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Version: 2024-04-28

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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.

20
papers

1,323
citations

14
h-index

22
g-index

22
ext. papers

1,565
ext. citations

5.4
avg, IF

4.28
L-index

#	Paper	IF	Citations
20	The Dynamics of Legged Locomotion: Models, Analyses, and Challenges. <i>SIAM Review</i> , 2006 , 48, 207-304	7.4	449
19	Mixed-Mode Oscillations with Multiple Time Scales. <i>SIAM Review</i> , 2012 , 54, 211-288	7.4	336
18	Discovering the flight autostabilizer of fruit flies by inducing aerial stumbles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4820-4	11.5	142
17	NUMERICAL COMPUTATION OF CANARDS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2000 , 10, 2669-2687	2	65
16	Computing Periodic Orbits and their Bifurcations with Automatic Differentiation. <i>SIAM Journal of Scientific Computing</i> , 2000 , 22, 951-985	2.6	62
15	Computing Slow Manifolds of Saddle Type. <i>SIAM Journal on Applied Dynamical Systems</i> , 2009 , 8, 854-879	2.8	45
14	Dissecting the Phase Response of a Model Bursting Neuron. <i>SIAM Journal on Applied Dynamical Systems</i> , 2010 , 9, 659-703	2.8	35
13	Return maps of folded nodes and folded saddle-nodes. <i>Chaos</i> , 2008 , 18, 015108	3.3	32
12	BIFURCATIONS OF RELAXATION OSCILLATIONS NEAR FOLDED SADDLES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005 , 15, 3411-3421	2	31
11	Synaptic patterning of left-right alternation in a computational model of the rodent hindlimb central pattern generator. <i>Journal of Computational Neuroscience</i> , 2011 , 30, 323-60	1.4	28
10	Constructing predictive models of human running. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	25
9	Invariant manifolds and global bifurcations. <i>Chaos</i> , 2015 , 25, 097604	3.3	18
8	Parameter estimation for bursting neural models. <i>Journal of Computational Neuroscience</i> , 2008 , 24, 358-734	7.4	15
7	Mixed-Mode Oscillations of El Niño Southern Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 1755-1766	2.1	14
6	The backward behavior of the Ricci and cross-curvature flows on S^2 . <i>Communications in Analysis and Geometry</i> , 2009 , 17, 777-796	0.9	9
5	(Un)predictability of strong El Niño events. <i>Dynamics and Statistics of the Climate System</i> , 2017 , 2,		7
4	COMPUTATIONAL ENVIRONMENTS FOR EXPLORING DYNAMICAL SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1991 , 01, 269-276	2	5

3	From data to dynamical systems. <i>Nonlinearity</i> , 2014 , 27, R41-R50	1.7	2
2	Locomotion: exploiting noise for state estimation. <i>Biological Cybernetics</i> , 2019 , 113, 93-104	2.8	1
1	DYNAMICAL SYSTEMS AND NUMERICAL ANALYSIS By A. M. STUART and A. R. HUMPHRIES Cambridge University Press, 1996, 709 pp. Price £40.00. ISBN 0 521 49672 1. <i>Ergodic Theory and Dynamical Systems</i> , 1998 , 18, 759-763	0.9	