

Guy Bunin

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

878
citations

687363

13
h-index

888059

17
g-index

22
all docs

22
docs citations

22
times ranked

535
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological communities with Lotka-Volterra dynamics. <i>Physical Review E</i> , 2017, 95, 042414.	2.1	172
2	Generic assembly patterns in complex ecological communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2156-2161.	7.1	141
3	Conformal Flattening by Curvature Prescription and Metric Scaling. <i>Computer Graphics Forum</i> , 2008, 27, 449-458.	3.0	128
4	Marginally stable equilibria in critical ecosystems. <i>New Journal of Physics</i> , 2018, 20, 083051.	2.9	94
5	Statistical physics of community ecology: a cavity solution to MacArthur's consumer resource model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 033406.	2.3	56
6	Universal energy fluctuations in thermally isolated driven systems. <i>Nature Physics</i> , 2011, 7, 913-917.	16.7	52
7	Complex interactions can create persistent fluctuations in high-diversity ecosystems. <i>PLoS Computational Biology</i> , 2020, 16, e1007827.	3.2	47
8	Non-differentiable large-deviation functionals in boundary-driven diffusive systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, L10001.	2.3	27
9	Large deviations in boundary-driven systems: Numerical evaluation and effective large-scale behavior. <i>Europhysics Letters</i> , 2012, 99, 20002.	2.0	24
10	A continuum theory for unstructured mesh generation in two dimensions. <i>Computer Aided Geometric Design</i> , 2008, 25, 14-40.	1.2	21
11	Frequency-dependent fluctuation-dissipation relations in granular gases. <i>Physical Review E</i> , 2008, 77, 051301.	2.1	21
12	Cusp Singularities in Boundary-Driven Diffusive Systems. <i>Journal of Statistical Physics</i> , 2013, 152, 112-135.	1.2	21
13	Fingerprints of High-Dimensional Coexistence in Complex Ecosystems. <i>Physical Review X</i> , 2021, 11, .	8.9	18
14	Dynamical persistence in high-diversity resource-consumer communities. <i>PLoS Computational Biology</i> , 2020, 16, e1008189.	3.2	13
15	Directionality and community-level selection. <i>Oikos</i> , 2021, 130, 489-500.	2.7	12
16	Local and collective transitions in sparsely-interacting ecological communities. <i>PLoS Computational Biology</i> , 2022, 18, e1010274.	3.2	7
17	Extinctions of coupled populations, and rare event dynamics under non-Gaussian noise. <i>Physical Review E</i> , 2021, 104, 024106.	2.1	5