

Robert Marsland Iii

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

642
citations

759233

12
h-index

940533

16
g-index

26
all docs

26
docs citations

26
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	Niche Theory for Mutualism: A Graphical Approach to Plant-Pollinator Network Dynamics. <i>American Naturalist</i> , 2021, 197, 393-404.	2.1	16
2	Diverse communities behave like typical random ecosystems. <i>Physical Review E</i> , 2021, 104, 034416.	2.1	26
3	Tregs self-organize into a computing ecosystem and implement a sophisticated optimization algorithm for mediating immune response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2011709118.	7.1	4
4	Effect of Resource Dynamics on Species Packing in Diverse Ecosystems. <i>Physical Review Letters</i> , 2020, 125, 048101.	7.8	39
5	The Minimum Environmental Perturbation Principle: A New Perspective on Niche Theory. <i>American Naturalist</i> , 2020, 196, 291-305.	2.1	26
6	The Community Simulator: A Python package for microbial ecology. <i>PLoS ONE</i> , 2020, 15, e0230430.	2.5	31
7	The in vivo genetic program of murine primordial lung epithelial progenitors. <i>Nature Communications</i> , 2020, 11, 635.	12.8	46
8	A minimal model for microbial biodiversity can reproduce experimentally observed ecological patterns. <i>Scientific Reports</i> , 2020, 10, 3308.	3.3	56
9	Machine learning as ecology. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 334001.	2.1	4
10	Environmental boundary conditions for the origin of life converge to an organo-sulfur metabolism. <i>Nature Ecology and Evolution</i> , 2019, 3, 1715-1724.	7.8	41
11	Constrained optimization as ecological dynamics with applications to random quadratic programming in high dimensions. <i>Physical Review E</i> , 2019, 99, 052111.	2.1	17
12	The thermodynamic uncertainty relation in biochemical oscillations. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190098.	3.4	32
13	Available energy fluxes drive a transition in the diversity, stability, and functional structure of microbial communities. <i>PLoS Computational Biology</i> , 2019, 15, e1006793.	3.2	101
14	Limits of predictions in thermodynamic systems: a review. <i>Reports on Progress in Physics</i> , 2018, 81, 016601.	20.1	25
15	Dynamics of phosphoinositide conversion in clathrin-mediated endocytic traffic. <i>Nature</i> , 2017, 552, 410-414.	27.8	119
16	Time and irreversibility in axiomatic thermodynamics. <i>American Journal of Physics</i> , 2015, 83, 628-634.	0.7	9