

Robert Marsland Iii

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4792917/publications.pdf>

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 | Dynamics of phosphoinositide conversion in clathrin-mediated endocytic traffic. <i>Nature</i> , 2017, 552, 410-414. | 27.8 | 119 |
| 2 | 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 |
| 3 | A minimal model for microbial biodiversity can reproduce experimentally observed ecological patterns. <i>Scientific Reports</i> , 2020, 10, 3308. | 3.3 | 56 |
| 4 | The in vivo genetic program of murine primordial lung epithelial progenitors. <i>Nature Communications</i> , 2020, 11, 635. | 12.8 | 46 |
| 5 | 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 |
| 6 | Effect of Resource Dynamics on Species Packing in Diverse Ecosystems. <i>Physical Review Letters</i> , 2020, 125, 048101. | 7.8 | 39 |
| 7 | The thermodynamic uncertainty relation in biochemical oscillations. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190098. | 3.4 | 32 |
| 8 | The Community Simulator: A Python package for microbial ecology. <i>PLoS ONE</i> , 2020, 15, e0230430. | 2.5 | 31 |
| 9 | The Minimum Environmental Perturbation Principle: A New Perspective on Niche Theory. <i>American Naturalist</i> , 2020, 196, 291-305. | 2.1 | 26 |
| 10 | Diverse communities behave like typical random ecosystems. <i>Physical Review E</i> , 2021, 104, 034416. | 2.1 | 26 |
| 11 | Limits of predictions in thermodynamic systems: a review. <i>Reports on Progress in Physics</i> , 2018, 81, 016601. | 20.1 | 25 |
| 12 | 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 |
| 13 | Niche Theory for Mutualism: A Graphical Approach to Plant-Pollinator Network Dynamics. <i>American Naturalist</i> , 2021, 197, 393-404. | 2.1 | 16 |
| 14 | Time and irreversibility in axiomatic thermodynamics. <i>American Journal of Physics</i> , 2015, 83, 628-634. | 0.7 | 9 |
| 15 | 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 |
| 16 | Machine learning as ecology. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 334001. | 2.1 | 4 |