

Rico Fischer

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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.

39
papers

1,021
citations

15
h-index

31
g-index

52
ext. papers

1,307
ext. citations

6.7
avg, IF

4.78
L-index

| # | Paper | IF | Citations |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 39 | Importance of the forest state in estimating biomass losses from tropical forests: combining dynamic forest models and remote sensing. <i>Biogeosciences</i> , 2022 , 19, 1891-1911 | 4.6 | 0 |
| 38 | Mapping Amazon Forest Productivity by Fusing GEDI Lidar Waveforms with an Individual-Based Forest Model. <i>Remote Sensing</i> , 2021 , 13, 4540 | 5 | 1 |
| 37 | Prediction of forest parameters and carbon accounting under different fire regimes in Miombo woodlands, Niassa Special Reserve, Northern Mozambique. <i>Forest Policy and Economics</i> , 2021 , 133, 102625 | 3.6 | 4 |
| 36 | Tackling unresolved questions in forest ecology: The past and future role of simulation models. <i>Ecology and Evolution</i> , 2021 , 11, 3746-3770 | 2.8 | 5 |
| 35 | Tree Crowns Cause Border Effects in Area-Based Biomass Estimations from Remote Sensing. <i>Remote Sensing</i> , 2021 , 13, 1592 | 5 | 3 |
| 34 | The Long-Term Consequences of Forest Fires on the Carbon Fluxes of a Tropical Forest in Africa. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4696 | 2.6 | 6 |
| 33 | Carbon Sequestration in Mixed Deciduous Forests: The Influence of Tree Size and Species Composition Derived from Model Experiments. <i>Forests</i> , 2021 , 12, 726 | 2.8 | 4 |
| 32 | Climate change alters the ability of neotropical forests to provide timber and sequester carbon. <i>Forest Ecology and Management</i> , 2021 , 492, 119166 | 3.9 | 4 |
| 31 | Defaunation and changes in climate and fire frequency have synergistic effects on aboveground biomass loss in the brazilian savanna. <i>Ecological Modelling</i> , 2021 , 454, 109628 | 3 | 4 |
| 30 | Accelerated forest fragmentation leads to critical increase in tropical forest edge area. <i>Science Advances</i> , 2021 , 7, eabg7012 | 14.3 | 14 |
| 29 | Deriving Tree Size Distributions of Tropical Forests from Lidar. <i>Remote Sensing</i> , 2021 , 13, 131 | 5 | 2 |
| 28 | An analysis of forest biomass sampling strategies across scales. <i>Biogeosciences</i> , 2020 , 17, 1673-1683 | 4.6 | 6 |
| 27 | Structure metrics to generalize biomass estimation from lidar across forest types from different continents. <i>Remote Sensing of Environment</i> , 2020 , 237, 111597 | 13.2 | 17 |
| 26 | A multi-scaled analysis of forest structure using individual-based modeling in a costa rican rainforest. <i>Ecological Modelling</i> , 2020 , 433, 109226 | 3 | 3 |
| 25 | Lianas in silico, ecological insights from a model of structural parasitism. <i>Ecological Modelling</i> , 2020 , 431, 109159 | 3 | 1 |
| 24 | Dynamics of Forest Fragmentation and Connectivity Using Particle and Fractal Analysis. <i>Scientific Reports</i> , 2019 , 9, 12228 | 4.9 | 20 |
| 23 | The Relevance of Forest Structure for Biomass and Productivity in Temperate Forests: New Perspectives for Remote Sensing. <i>Surveys in Geophysics</i> , 2019 , 40, 709-734 | 7.6 | 22 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 22 | Understanding the Land Carbon Cycle with Space Data: Current Status and Prospects. <i>Surveys in Geophysics</i> , 2019 , 40, 735-755 | 7.6 | 14 |
| 21 | From small-scale forest structure to Amazon-wide carbon estimates. <i>Nature Communications</i> , 2019 , 10, 5088 | 17.4 | 14 |
| 20 | Remote Sensing Measurements of Forest Structure Types for Ecosystem Service Mapping 2019 , 63-67 | | 1 |
| 19 | The importance of forest structure for carbon fluxes of the Amazon rainforest. <i>Environmental Research Letters</i> , 2018 , 13, 054013 | 6.2 | 41 |
| 18 | Global patterns of tropical forest fragmentation. <i>Nature</i> , 2018 , 554, 519-522 | 50.4 | 257 |
| 17 | Gap models and their individual-based relatives in the assessment of the consequences of global change. <i>Environmental Research Letters</i> , 2018 , 13, 033001 | 6.2 | 42 |
| 16 | Simulating Forest Dynamics of Lowland Rainforests in Eastern Madagascar. <i>Forests</i> , 2018 , 9, 214 | 2.8 | 3 |
| 15 | Model-Assisted Estimation of Tropical Forest Biomass Change: A Comparison of Approaches. <i>Remote Sensing</i> , 2018 , 10, 731 | 5 | 12 |
| 14 | Defaunation impacts on seed survival and its effect on the biomass of future tropical forests. <i>Oikos</i> , 2018 , 127, 1526-1538 | 4 | 11 |
| 13 | Linking lidar and forest modeling to assess biomass estimation across scales and disturbance states. <i>Remote Sensing of Environment</i> , 2018 , 205, 199-209 | 13.2 | 53 |
| 12 | Consequences of a Reduced Number of Plant Functional Types for the Simulation of Forest Productivity. <i>Forests</i> , 2018 , 9, 460 | 2.8 | 9 |
| 11 | Simulation of succession in a neotropical forest: High selective logging intensities prolong the recovery times of ecosystem functions. <i>Forest Ecology and Management</i> , 2018 , 430, 517-525 | 3.9 | 10 |
| 10 | High resolution analysis of tropical forest fragmentation and its impact on the global carbon cycle. <i>Nature Communications</i> , 2017 , 8, 14855 | 17.4 | 144 |
| 9 | Using airborne LiDAR to assess spatial heterogeneity in forest structure on Mount Kilimanjaro. <i>Landscape Ecology</i> , 2017 , 32, 1881-1894 | 4.3 | 13 |
| 8 | The carbon fluxes in different successional stages: modelling the dynamics of tropical montane forests in South Ecuador. <i>Forest Ecosystems</i> , 2017 , 4, | 3.8 | 18 |
| 7 | Monitoring of Forest Structure Dynamics by Means of L-Band SAR Tomography. <i>Remote Sensing</i> , 2017 , 9, 1229 | 5 | 35 |
| 6 | Impacts of precipitation variability on the dynamics of a dry tropical montane forest. <i>Ecological Modelling</i> , 2016 , 320, 92-101 | 3 | 23 |
| 5 | Lessons learned from applying a forest gap model to understand ecosystem and carbon dynamics of complex tropical forests. <i>Ecological Modelling</i> , 2016 , 326, 124-133 | 3 | 91 |

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|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 4 | Monodominance in tropical forests: modelling reveals emerging clusters and phase transitions. <i>Journal of the Royal Society Interface</i> , 2016 , 13, | 4.1 | 9 |
| 3 | Computer and remote-sensing infrastructure to enhance large-scale testing of individual-based forest models. <i>Frontiers in Ecology and the Environment</i> , 2015 , 13, 503-511 | 5.5 | 51 |
| 2 | Simulating carbon stocks and fluxes of an African tropical montane forest with an individual-based forest model. <i>PLoS ONE</i> , 2015 , 10, e0123300 | 3.7 | 16 |
| 1 | Simulating the impacts of reduced rainfall on carbon stocks and net ecosystem exchange in a tropical forest. <i>Environmental Modelling and Software</i> , 2014 , 52, 200-206 | 5.2 | 34 |