

# Rico Fischer

## 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.

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	Global patterns of tropical forest fragmentation. <i>Nature</i> , <b>2018</b> , 554, 519-522	50.4	257
38	High resolution analysis of tropical forest fragmentation and its impact on the global carbon cycle. <i>Nature Communications</i> , <b>2017</b> , 8, 14855	17.4	144
37	Lessons learned from applying a forest gap model to understand ecosystem and carbon dynamics of complex tropical forests. <i>Ecological Modelling</i> , <b>2016</b> , 326, 124-133	3	91
36	Linking lidar and forest modeling to assess biomass estimation across scales and disturbance states. <i>Remote Sensing of Environment</i> , <b>2018</b> , 205, 199-209	13.2	53
35	Computer and remote-sensing infrastructure to enhance large-scale testing of individual-based forest models. <i>Frontiers in Ecology and the Environment</i> , <b>2015</b> , 13, 503-511	5.5	51
34	Gap models and their individual-based relatives in the assessment of the consequences of global change. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 033001	6.2	42
33	The importance of forest structure for carbon fluxes of the Amazon rainforest. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 054013	6.2	41
32	Monitoring of Forest Structure Dynamics by Means of L-Band SAR Tomography. <i>Remote Sensing</i> , <b>2017</b> , 9, 1229	5	35
31	Simulating the impacts of reduced rainfall on carbon stocks and net ecosystem exchange in a tropical forest. <i>Environmental Modelling and Software</i> , <b>2014</b> , 52, 200-206	5.2	34
30	Impacts of precipitation variability on the dynamics of a dry tropical montane forest. <i>Ecological Modelling</i> , <b>2016</b> , 320, 92-101	3	23
29	The Relevance of Forest Structure for Biomass and Productivity in Temperate Forests: New Perspectives for Remote Sensing. <i>Surveys in Geophysics</i> , <b>2019</b> , 40, 709-734	7.6	22
28	Dynamics of Forest Fragmentation and Connectivity Using Particle and Fractal Analysis. <i>Scientific Reports</i> , <b>2019</b> , 9, 12228	4.9	20
27	The carbon fluxes in different successional stages: modelling the dynamics of tropical montane forests in South Ecuador. <i>Forest Ecosystems</i> , <b>2017</b> , 4,	3.8	18
26	Structure metrics to generalize biomass estimation from lidar across forest types from different continents. <i>Remote Sensing of Environment</i> , <b>2020</b> , 237, 111597	13.2	17
25	Simulating carbon stocks and fluxes of an African tropical montane forest with an individual-based forest model. <i>PLoS ONE</i> , <b>2015</b> , 10, e0123300	3.7	16
24	Understanding the Land Carbon Cycle with Space Data: Current Status and Prospects. <i>Surveys in Geophysics</i> , <b>2019</b> , 40, 735-755	7.6	14
23	From small-scale forest structure to Amazon-wide carbon estimates. <i>Nature Communications</i> , <b>2019</b> , 10, 5088	17.4	14

22	Accelerated forest fragmentation leads to critical increase in tropical forest edge area. <i>Science Advances</i> , <b>2021</b> , 7, eabg7012	14.3	14
21	Using airborne LiDAR to assess spatial heterogeneity in forest structure on Mount Kilimanjaro. <i>Landscape Ecology</i> , <b>2017</b> , 32, 1881-1894	4.3	13
20	Model-Assisted Estimation of Tropical Forest Biomass Change: A Comparison of Approaches. <i>Remote Sensing</i> , <b>2018</b> , 10, 731	5	12
19	Defaunation impacts on seed survival and its effect on the biomass of future tropical forests. <i>Oikos</i> , <b>2018</b> , 127, 1526-1538	4	11
18	Simulation of succession in a neotropical forest: High selective logging intensities prolong the recovery times of ecosystem functions. <i>Forest Ecology and Management</i> , <b>2018</b> , 430, 517-525	3.9	10
17	Monodominance in tropical forests: modelling reveals emerging clusters and phase transitions. <i>Journal of the Royal Society Interface</i> , <b>2016</b> , 13,	4.1	9
16	Consequences of a Reduced Number of Plant Functional Types for the Simulation of Forest Productivity. <i>Forests</i> , <b>2018</b> , 9, 460	2.8	9
15	An analysis of forest biomass sampling strategies across scales. <i>Biogeosciences</i> , <b>2020</b> , 17, 1673-1683	4.6	6
14	The Long-Term Consequences of Forest Fires on the Carbon Fluxes of a Tropical Forest in Africa. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4696	2.6	6
13	Tackling unresolved questions in forest ecology: The past and future role of simulation models. <i>Ecology and Evolution</i> , <b>2021</b> , 11, 3746-3770	2.8	5
12	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> , <b>2021</b> , 133, 102625	3.6	4
11	Carbon Sequestration in Mixed Deciduous Forests: The Influence of Tree Size and Species Composition Derived from Model Experiments. <i>Forests</i> , <b>2021</b> , 12, 726	2.8	4
10	Climate change alters the ability of neotropical forests to provide timber and sequester carbon. <i>Forest Ecology and Management</i> , <b>2021</b> , 492, 119166	3.9	4
9	Defaunation and changes in climate and fire frequency have synergistic effects on aboveground biomass loss in the brazilian savanna. <i>Ecological Modelling</i> , <b>2021</b> , 454, 109628	3	4
8	Simulating Forest Dynamics of Lowland Rainforests in Eastern Madagascar. <i>Forests</i> , <b>2018</b> , 9, 214	2.8	3
7	A multi-scaled analysis of forest structure using individual-based modeling in a costa rican rainforest. <i>Ecological Modelling</i> , <b>2020</b> , 433, 109226	3	3
6	Tree Crowns Cause Border Effects in Area-Based Biomass Estimations from Remote Sensing. <i>Remote Sensing</i> , <b>2021</b> , 13, 1592	5	3
5	Deriving Tree Size Distributions of Tropical Forests from Lidar. <i>Remote Sensing</i> , <b>2021</b> , 13, 131	5	2

4	Mapping Amazon Forest Productivity by Fusing GEDI Lidar Waveforms with an Individual-Based Forest Model. <i>Remote Sensing</i> , <b>2021</b> , 13, 4540	5	1
3	Remote Sensing Measurements of Forest Structure Types for Ecosystem Service Mapping <b>2019</b> , 63-67		1
2	Lianas in silico, ecological insights from a model of structural parasitism. <i>Ecological Modelling</i> , <b>2020</b> , 431, 109159	3	1
1	Importance of the forest state in estimating biomass losses from tropical forests: combining dynamic forest models and remote sensing. <i>Biogeosciences</i> , <b>2022</b> , 19, 1891-1911	4.6	0