

Rico Fischer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2625199/publications.pdf>

Version: 2024-02-01

39
papers

1,621
citations

393982

19
h-index

301761

39
g-index

52
all docs

52
docs citations

52
times ranked

2847
citing authors

#	ARTICLE	IF	CITATIONS
1	Global patterns of tropical forest fragmentation. <i>Nature</i> , 2018, 554, 519-522.	13.7	409
2	High resolution analysis of tropical forest fragmentation and its impact on the global carbon cycle. <i>Nature Communications</i> , 2017, 8, 14855.	5.8	213
3	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.	1.2	115
4	Linking lidar and forest modeling to assess biomass estimation across scales and disturbance states. <i>Remote Sensing of Environment</i> , 2018, 205, 199-209.	4.6	68
5	Accelerated forest fragmentation leads to critical increase in tropical forest edge area. <i>Science Advances</i> , 2021, 7, eabg7012.	4.7	66
6	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.	1.9	64
7	The importance of forest structure for carbon fluxes of the Amazon rainforest. <i>Environmental Research Letters</i> , 2018, 13, 054013.	2.2	60
8	Gap models and their individual-based relatives in the assessment of the consequences of global change. <i>Environmental Research Letters</i> , 2018, 13, 033001.	2.2	56
9	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.	2.1	47
10	Monitoring of Forest Structure Dynamics by Means of L-Band SAR Tomography. <i>Remote Sensing</i> , 2017, 9, 1229.	1.8	44
11	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.	1.9	39
12	Dynamics of Forest Fragmentation and Connectivity Using Particle and Fractal Analysis. <i>Scientific Reports</i> , 2019, 9, 12228.	1.6	38
13	Tackling unresolved questions in forest ecology: The past and future role of simulation models. <i>Ecology and Evolution</i> , 2021, 11, 3746-3770.	0.8	37
14	Structure metrics to generalize biomass estimation from lidar across forest types from different continents. <i>Remote Sensing of Environment</i> , 2020, 237, 111597.	4.6	31
15	Impacts of precipitation variability on the dynamics of a dry tropical montane forest. <i>Ecological Modelling</i> , 2016, 320, 92-101.	1.2	29
16	From small-scale forest structure to Amazon-wide carbon estimates. <i>Nature Communications</i> , 2019, 10, 5088.	5.8	25
17	The carbon fluxes in different successional stages: modelling the dynamics of tropical montane forests in South Ecuador. <i>Forest Ecosystems</i> , 2017, 4, .	1.3	23
18	Understanding the Land Carbon Cycle with Space Data: Current Status and Prospects. <i>Surveys in Geophysics</i> , 2019, 40, 735-755.	2.1	22

#	ARTICLE	IF	CITATIONS
19	Simulating Carbon Stocks and Fluxes of an African Tropical Montane Forest with an Individual-Based Forest Model. <i>PLoS ONE</i> , 2015, 10, e0123300.	1.1	21
20	Using airborne LiDAR to assess spatial heterogeneity in forest structure on Mount Kilimanjaro. <i>Landscape Ecology</i> , 2017, 32, 1881-1894.	1.9	19
21	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.	1.4	17
22	Defaunation impacts on seed survival and its effect on the biomass of future tropical forests. <i>Oikos</i> , 2018, 127, 1526-1538.	1.2	17
23	Model-Assisted Estimation of Tropical Forest Biomass Change: A Comparison of Approaches. <i>Remote Sensing</i> , 2018, 10, 731.	1.8	16
24	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.	1.2	15
25	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.	1.3	14
26	Carbon Sequestration in Mixed Deciduous Forests: The Influence of Tree Size and Species Composition Derived from Model Experiments. <i>Forests</i> , 2021, 12, 726.	0.9	13
27	Consequences of a Reduced Number of Plant Functional Types for the Simulation of Forest Productivity. <i>Forests</i> , 2018, 9, 460.	0.9	12
28	Tree Crowns Cause Border Effects in Area-Based Biomass Estimations from Remote Sensing. <i>Remote Sensing</i> , 2021, 13, 1592.	1.8	12
29	Monodominance in tropical forests: modelling reveals emerging clusters and phase transitions. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160123.	1.5	11
30	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.	1.5	11
31	Challenges to aboveground biomass prediction from waveform lidar. <i>Environmental Research Letters</i> , 2021, 16, 125013.	2.2	9
32	An analysis of forest biomass sampling strategies across scales. <i>Biogeosciences</i> , 2020, 17, 1673-1683.	1.3	8
33	Climate change alters the ability of neotropical forests to provide timber and sequester carbon. <i>Forest Ecology and Management</i> , 2021, 492, 119166.	1.4	8
34	Mapping Amazon Forest Productivity by Fusing GEDI Lidar Waveforms with an Individual-Based Forest Model. <i>Remote Sensing</i> , 2021, 13, 4540.	1.8	7
35	A multi-scaled analysis of forest structure using individual-based modeling in a Costa Rican rainforest. <i>Ecological Modelling</i> , 2020, 433, 109226.	1.2	5
36	Deriving Tree Size Distributions of Tropical Forests from Lidar. <i>Remote Sensing</i> , 2021, 13, 131.	1.8	5

#	ARTICLE	IF	CITATIONS
37	Simulating Forest Dynamics of Lowland Rainforests in Eastern Madagascar. <i>Forests</i> , 2018, 9, 214.	0.9	4
38	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.	1.3	3
39	Lianas in silico, ecological insights from a model of structural parasitism. <i>Ecological Modelling</i> , 2020, 431, 109159.	1.2	2