

Sophie Fauset

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

4,075
citations

279701

23
h-index

414303

32
g-index

33
all docs

33
docs citations

33
times ranked

6021
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term decline of the Amazon carbon sink. <i>Nature</i> , 2015, 519, 344-348.	13.7	796
2	Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , 2020, 579, 80-87.	13.7	439
3	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019, 25, 39-56.	4.2	265
4	Above-ground biomass and structure of 260 African tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120295.	1.8	264
5	Diversity and carbon storage across the tropical forest biome. <i>Scientific Reports</i> , 2017, 7, 39102.	1.6	251
6	Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , 2015, 6, 6857.	5.8	214
7	Linking hydraulic traits to tropical forest function in a size-structured and trait-driven model (TFS-1-Hydro). <i>Geoscientific Model Development</i> , 2016, 9, 4227-4255.	1.3	211
8	Drought-induced shifts in the floristic and functional composition of tropical forests in Ghana. <i>Ecology Letters</i> , 2012, 15, 1120-1129.	3.0	205
9	Amazon forest response to repeated droughts. <i>Global Biogeochemical Cycles</i> , 2016, 30, 964-982.	1.9	201
10	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020, 368, 869-874.	6.0	198
11	Variation in stem mortality rates determines patterns of above-ground biomass in Amazonian forests: implications for dynamic global vegetation models. <i>Global Change Biology</i> , 2016, 22, 3996-4013.	4.2	116
12	Carbon uptake by mature Amazon forests has mitigated Amazon nations' carbon emissions. <i>Carbon Balance and Management</i> , 2017, 12, 1.	1.4	98
13	Using repeated small-footprint LiDAR acquisitions to infer spatial and temporal variations of a high-biomass Neotropical forest. <i>Remote Sensing of Environment</i> , 2015, 169, 93-101.	4.6	92
14	Differences in leaf thermoregulation and water use strategies between three co-occurring Atlantic forest tree species. <i>Plant, Cell and Environment</i> , 2018, 41, 1618-1631.	2.8	92
15	Drier tropical forests are susceptible to functional changes in response to a long-term drought. <i>Ecology Letters</i> , 2019, 22, 855-865.	3.0	75
16	Evidence for arrested succession in a liana-infested Amazonian forest. <i>Journal of Ecology</i> , 2016, 104, 149-159.	1.9	71
17	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020, 11, 5515.	5.8	62
18	The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , 2020, 29, 1495-1514.	2.7	62

#	ARTICLE	IF	CITATIONS
19	Long-term droughts may drive drier tropical forests towards increased functional, taxonomic and phylogenetic homogeneity. <i>Nature Communications</i> , 2020, 11, 3346.	5.8	61
20	Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. <i>Ecology</i> , 2020, 101, e03052.	1.5	57
21	Contrasting responses of stomatal conductance and photosynthetic capacity to warming and elevated CO ₂ in the tropical tree species <i>Alchornea glandulosa</i> under heatwave conditions. <i>Environmental and Experimental Botany</i> , 2019, 158, 28-39.	2.0	47
22	Tropical forest light regimes in a human-modified landscape. <i>Ecosphere</i> , 2017, 8, e02002.	1.0	36
23	Predicting alpha diversity of African rain forests: models based on climate and satellite-derived data do not perform better than a purely spatial model. <i>Journal of Biogeography</i> , 2011, 38, 1164-1176.	1.4	30
24	Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , 2021, 5, 757-767.	3.4	27
25	Photosynthetic quantum efficiency in south-eastern Amazonian trees may be already affected by climate change. <i>Plant, Cell and Environment</i> , 2021, 44, 2428-2439.	2.8	22
26	Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	19
27	Trees at the Amazonia-Cerrado transition are approaching high temperature thresholds. <i>Environmental Research Letters</i> , 2021, 16, 034047.	2.2	19
28	Water table depth modulates productivity and biomass across Amazonian forests. <i>Global Ecology and Biogeography</i> , 2022, 31, 1571-1588.	2.7	17
29	Causes and consequences of liana infestation in southern Amazonia. <i>Journal of Ecology</i> , 2020, 108, 2184-2197.	1.9	13
30	Thermal safety margins of plant leaves across biomes under a heatwave. <i>Science of the Total Environment</i> , 2022, 806, 150416.	3.9	8
31	A Spatial and Temporal Risk Assessment of the Impacts of El Niño on the Tropical Forest Carbon Cycle: Theoretical Framework, Scenarios, and Implications. <i>Atmosphere</i> , 2019, 10, 588.	1.0	4
32	Modelling Amazonian Carbon Budgets and Vegetation Dynamics in a Changing Climate. <i>Ecological Studies</i> , 2016, , 331-366.	0.4	3