

Douglas C Morton

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

9,990
citations

126907

33
h-index

254184

43
g-index

47
all docs

47
docs citations

47
times ranked

11901
citing authors

#	ARTICLE	IF	CITATIONS
1	Global fire emissions and the contribution of deforestation, savanna, forest, agricultural, and peat fires (1997–2009). <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11707-11735.	4.9	2,326
2	Global fire emissions estimates during 1997–2016. <i>Earth System Science Data</i> , 2017, 9, 697-720.	9.9	1,159
3	Cropland expansion changes deforestation dynamics in the southern Brazilian Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14637-14641.	7.1	780
4	A human-driven decline in global burned area. <i>Science</i> , 2017, 356, 1356-1362.	12.6	694
5	Global burned area and biomass burning emissions from small fires. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	578
6	Abrupt increases in Amazonian tree mortality due to drought–fire interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6347-6352.	7.1	576
7	Brazil's Soy Moratorium. <i>Science</i> , 2015, 347, 377-378.	12.6	452
8	Climate regulation of fire emissions and deforestation in equatorial Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20350-20355.	7.1	336
9	NASA Goddard's LiDAR, Hyperspectral and Thermal (G-LiHT) Airborne Imager. <i>Remote Sensing</i> , 2013, 5, 4045-4066.	4.0	278
10	Beyond 3-D: The new spectrum of lidar applications for earth and ecological sciences. <i>Remote Sensing of Environment</i> , 2016, 186, 372-392.	11.0	229
11	The Global Fire Atlas of individual fire size, duration, speed and direction. <i>Earth System Science Data</i> , 2019, 11, 529-552.	9.9	227
12	Effect of oil palm sustainability certification on deforestation and fire in Indonesia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 121-126.	7.1	218
13	Forecasting Fire Season Severity in South America Using Sea Surface Temperature Anomalies. <i>Science</i> , 2011, 334, 787-791.	12.6	197
14	Agricultural intensification increases deforestation fire activity in Amazonia. <i>Global Change Biology</i> , 2008, 14, 2262-2275.	9.5	180
15	Understorey fire frequency and the fate of burned forests in southern Amazonia. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120163.	4.0	152
16	Tree height and tropical forest biomass estimation. <i>Biogeosciences</i> , 2013, 10, 8385-8399.	3.3	149
17	The gathering firestorm in southern Amazonia. <i>Science Advances</i> , 2020, 6, eaay1632.	10.3	132
18	A pan-tropical cascade of fire driven by El Niño/Southern Oscillation. <i>Nature Climate Change</i> , 2017, 7, 906-911.	18.8	115

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19	Validation of MODIS Active Fire Detection Products Derived from Two Algorithms. <i>Earth Interactions</i> , 2005, 9, 1-25.	1.5	112
20	Aboveground biomass variability across intact and degraded forests in the Brazilian Amazon. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1639-1660.	4.9	109
21	Mapping canopy damage from understory fires in Amazon forests using annual time series of Landsat and MODIS data. <i>Remote Sensing of Environment</i> , 2011, 115, 1706-1720.	11.0	96
22	Quantifying long-term changes in carbon stocks and forest structure from Amazon forest degradation. <i>Environmental Research Letters</i> , 2018, 13, 065013.	5.2	75
23	How much global burned area can be forecast on seasonal time scales using sea surface temperatures?. <i>Environmental Research Letters</i> , 2016, 11, 045001.	5.2	72
24	Synergy between land use and climate change increases future fire risk in Amazon forests. <i>Earth System Dynamics</i> , 2017, 8, 1237-1246.	7.1	71
25	The role of fire in global forest loss dynamics. <i>Global Change Biology</i> , 2021, 27, 2377-2391.	9.5	71
26	El Niño drought increased canopy turnover in Amazon forests. <i>New Phytologist</i> , 2018, 219, 959-971.	7.3	65
27	Characterizing Vegetation Fire Dynamics in Brazil through Multisatellite Data: Common Trends and Practical Issues. <i>Earth Interactions</i> , 2005, 9, 1-26.	1.5	62
28	Structural Dynamics of Tropical Moist Forest Gaps. <i>PLoS ONE</i> , 2015, 10, e0132144.	2.5	57
29	The Impact of Land Cover Change on Surface Energy and Water Balance in Mato Grosso, Brazil. <i>Earth Interactions</i> , 2006, 10, 1-17.	1.5	54
30	Impacts of Degradation on Water, Energy, and Carbon Cycling of the Amazon Tropical Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005677.	3.0	44
31	Deforestation-induced climate change reduces carbon storage in remaining tropical forests. <i>Nature Communications</i> , 2022, 13, 1964.	12.8	41
32	Thinner bark increases sensitivity of wetter Amazonian tropical forests to fire. <i>Ecology Letters</i> , 2020, 23, 99-106.	6.4	40
33	Fire-related carbon emissions from land use transitions in southern Amazonia. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	39
34	Separating the influence of temperature, drought, and fire on interannual variability in atmospheric CO ₂ . <i>Global Biogeochemical Cycles</i> , 2014, 28, 1295-1310.	4.9	33
35	Amazon forest structure generates diurnal and seasonal variability in light utilization. <i>Biogeosciences</i> , 2016, 13, 2195-2206.	3.3	32
36	Long-Term Impacts of Selective Logging on Amazon Forest Dynamics from Multi-Temporal Airborne LiDAR. <i>Remote Sensing</i> , 2019, 11, 709.	4.0	31

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37	Managing fire risk during drought: the influence of certification and El Niño on fire-driven forest conversion for oil palm in Southeast Asia. <i>Earth System Dynamics</i> , 2017, 8, 749-771.	7.1	21
38	uncertainties. <i>Carbon Balance and Management</i> , 2011, 6, 18.	3.2	19
39	Management and climate contributions to satellite-derived active fire trends in the contiguous United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 645-660.	3.0	13
40	Forecasting Global Fire Emissions on Subseasonal to Seasonal (S2S) Time Scales. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001955.	3.8	13
41	Tracking the Rates and Mechanisms of Canopy Damage and Recovery Following Hurricane Maria Using Multitemporal Lidar Data. <i>Ecosystems</i> , 2022, 25, 892-910.	3.4	10
42	Estimation of coarse dead wood stocks in intact and degraded forests in the Brazilian Amazon using airborne lidar. <i>Biogeosciences</i> , 2019, 16, 3457-3474.	3.3	8
43	Large-scale, image-based tree species mapping in a tropical forest using artificial perceptual learning. <i>Methods in Ecology and Evolution</i> , 2021, 12, 608-618.	5.2	8