Liana Oighenstein Anderson

List of Publications by Year
in descending order

96 papers	7,456 citations	101543 36 h-index	56724 83 g-index
105 all docs	105 docs citations	105 times ranked	9031 citing authors

#	Article	IF	Citations
1	South American fires and their impacts on ecosystems increase with continued emissions. Climate Resilience and Sustainability, 2022, 1, e8.	2.3	15
2	Extreme rainfall and its impacts in the Brazilian Minas Gerais state in January 2020: Can we blame climate change?. Climate Resilience and Sustainability, 2022, 1, .	2.3	26
3	Identifying localâ€scale meteorological conditions favorable to large fires in Brazil. Climate Resilience and Sustainability, 2022, 1, .	2.3	5
4	An alert system for Seasonal Fire probability forecast for South American Protected Areas. Climate Resilience and Sustainability, 2022, 1, .	2.3	9
5	Attributing the 2015/2016 Amazon basin drought to anthropogenic influence. Climate Resilience and Sustainability, 2022, 1, .	2.3	5
6	Innovative fire policy in the Amazon: A statistical Hicks-Kaldor analysis. Ecological Economics, 2022, 191, 107248.	5.7	1
7	Hospitalization Due to Fire-Induced Pollution in the Brazilian Legal Amazon from 2005 to 2018. Remote Sensing, 2022, 14, 69.	4.0	10
8	Forest Fragmentation and Fires in the Eastern Brazilian Amazonâ€“MaranhÃ£o State, Brazil. Fire, 2022, 5, 77.	2.8	13
9	Near Real-Time Fire Detection and Monitoring in the MATOPIBA Region, Brazil. Remote Sensing, 2022, 14, 3141.	4.0	0
10	Compound impact of land use and extreme climate on the 2020 fire record of the Brazilian Pantanal. Global Ecology and Biogeography, 2022, 31, 1960-1975.	5.8	6
11	Improving the spatialâ€temporal analysis of Amazonian fires. Global Change Biology, 2021, 27, 469-471.	9.5	17
12	The Brazilian Amazon deforestation rate in 2020 is the greatest of the decade. Nature Ecology and Evolution, 2021, 5, 144-145.	7.8	251
13	New approach for drought assessment: A case study in the northern region of Minas Gerais. International Journal of Disaster Risk Reduction, 2021, 53, 102019.	3.9	8
14	Large carbon sink potential of secondary forests in the Brazilian Amazon to mitigate climate change. Nature Communications, 2021, 12, 1785.	12.8	99
15	The Sketch Map Tool Facilitates the Assessment of OpenStreetMap Data for Participatory Mapping. ISPRS International Journal of Geo-Information, 2021, 10, 130.	2.9	8
16	Burning in southwestern Brazilian Amazonia, 2016â€“2019. Journal of Environmental Management, 2021, 286, 112189.	7.8	23
17	Amazonia as a carbon source linked to deforestation and climate change. Nature, 2021, 595, 388-393.	27.8	371
18	Relationship between Biomass Burning Emissions and Deforestation in Amazonia over the Last Two Decades. Forests, 2021, 12, 1217.	2.1	12

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19	Amazonian forest degradation must be incorporated into the COP26 agenda. Nature Geoscience, 2021, 14, 634-635.	12.9	32
20	Anthropogenic climate change contribution to wildfire-prone weather conditions in the Cerrado and Arc of deforestation. Environmental Research Letters, 2021, 16, 094051.	5.2	6
21	The 2020 Brazilian Pantanal fires. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20210077.	0.8	9
22	Amazon methane budget derived from multi-year airborne observations highlights regional variations in emissions. Communications Earth & Environment, 2021, 2, .	6.8	24
23	Spatio-temporal variation in dry season determines the Amazonian fire calendar. Environmental Research Letters, 2021, 16, 125009.	5.2	11
24	Predicting fires for policy making: Improving accuracy of fire brigade allocation in the Brazilian Amazon. Ecological Economics, 2020, 169, 106501.	5.7	21
25	Determination of Region of Influence Obtained by Aircraft Vertical Profiles Using the Density of Trajectories from the HYSPLIT Model. Atmosphere, 2020, 11, 1073.	2.3	9
26	Intercomparison of Burned Area Products and Its Implication for Carbon Emission Estimations in the Amazon. Remote Sensing, 2020, 12, 3864.	4.0	27
27	Smoke pollution's impacts in Amazonia. Science, 2020, 369, 634-635.	12.6	28
28	Benchmark maps of 33 years of secondary forest age for Brazil. Scientific Data, 2020, 7, 269.	5.3	46
29	Drivers of Fire Anomalies in the Brazilian Amazon: Lessons Learned from the 2019 Fire Crisis. Land, 2020, 9, 516.	2.9	48
30	El NiÃ±o Driven Changes in Global Fire 2015/16. Frontiers in Earth Science, 2020, 8, .	1.8	28
31	Estimating the multi-decadal carbon deficit of burned Amazonian forests. Environmental Research Letters, 2020, 15, 114023.	5.2	32
32	Persistent collapse of biomass in Amazonian forest edges following deforestation leads to unaccounted carbon losses. Science Advances, 2020, 6, .	10.3	82
33	Burned Area Detection in the Brazilian Amazon using Spectral Indices and GEOBIA. Revista Brasileira De Cartografia, 2020, 72, 253-269.	0.2	3
34	MudanÃ§as na exposiÃ§Ã£o da populaÃ§Ã£o Ã fumaÃ§a gerada por incÃªndios florestais na AmazÃ´nia: o que dizem os dados sobre desastres e qualidade do ar?. SaÃºde Em Debate, 2020, 44, 284-302.	0.5	0
35	RELATOS DE EXPERIÃŠNCIAS DOS PROJETOS DE PESQUISA MAP-FIRE E ACRE-QUEIMADAS: DIAGNÃ“STICO E PERSPECTIVAS DE MITIGAÃ‡ÃƒO ENVOLVENDO A SOCIEDADE PARA REDUÃ‡ÃƒO DO RISCO E DE IMPACTOS ASSOCIADOS A INCÃŠNDIOS FLORESTAIS. UÃ¡quiri, 2020, 2, 14.	0.0	1
36	Effects of climate and landâ€use change scenarios on fire probability during the 21st century in the Brazilian Amazon. Global Change Biology, 2019, 25, 2931-2946.	9.5	87

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37	Fire, Tractors, and Health in the Amazon: A Cost-Benefit Analysis of Fire Policy. Land Economics, 2019, 95, 409-434.	0.9	14
38	Fire Responses to the 2010 and 2015/2016 Amazonian Droughts. Frontiers in Earth Science, 2019, 7, .	1.8	46
39	Translating Fire Impacts in Southwestern Amazonia into Economic Costs. Remote Sensing, 2019, 11, 764.	4.0	35
40	Modelo conceitual de sistema de alerta e de gestÃ£o de riscos e desastres associados a incÃªndios florestais e desafios para polÃticas pÃºblicas no Brasil. Territorium: Revista Portuguesa De Riscos, PrevenÃ§Ã£o E SeguranÃ§a, 2019, , 43-61.	0.1	10
41	21st Century drought-related fires counteract the decline of Amazon deforestation carbon emissions. Nature Communications, 2018, 9, 536.	12.8	485
42	Re-thinking socio-economic impact assessments of disasters: The 2015 flood in Rio Branco, Brazilian Amazon. International Journal of Disaster Risk Reduction, 2018, 31, 212-219.	3.9	19
43	Seasonality of vegetation types of South America depicted by moderate resolution imaging spectroradiometer (MODIS) time series. International Journal of Applied Earth Observation and Geoinformation, 2018, 69, 148-163.	2.8	19
44	Vulnerability of Amazonian forests to repeated droughts. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170411.	4.0	80
45	Drought-induced Amazonian wildfires instigate a decadal-scale disruption of forest carbon dynamics. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20180043.	4.0	79
46	Spatiotemporal Rainfall Trends in the Brazilian Legal Amazon between the Years 1998 and 2015. Water (Switzerland), 2018, 10, 1220.	2.7	26
47	HOW STRONG IS THE RELATIONSHIP BETWEEN RAINFALL VARIABILITY AND CAATINGA PRODUCTIVITY? A CASE STUDY UNDER A CHANGING CLIMATE. Anais Da Academia Brasileira De Ciencias, 2018, 90, 2121-2127.	0.8	17
48	Deforestation-Induced Fragmentation Increases Forest Fire Occurrence in Central Brazilian Amazonia. Forests, 2018, 9, 305.	2.1	79
49	Vegetation chlorophyll estimates in the Amazon from multi-angle MODIS observations and canopy reflectance model. International Journal of Applied Earth Observation and Geoinformation, 2017, 58, 278-287.	2.8	14
50	Climatic and anthropogenic drivers of northern Amazon fires during the 2015â€“2016 El NiÃ±o event. Ecological Applications, 2017, 27, 2514-2527.	3.8	49
51	An RS-GIS-Based ComprehensiveImpact Assessment of Floodsâ€”A Case Study in Madeira River, Western Brazilian Amazon. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1614-1617.	3.1	17
52	Development of a Point-based Method for Map Validation and Confidence Interval Estimation: A Case Study of Burned Areas in Amazonia. Journal of Remote Sensing & GIS, 2017, 06, .	0.3	10
53	Chlorophyll Fluorescence Data Reveals Climate-Related Photosynthesis Seasonality in Amazonian Forests. Remote Sensing, 2017, 9, 1275.	4.0	14
54	Climate seasonality limits leaf carbon assimilation and wood productivity in tropical forests. Biogeosciences, 2016, 13, 2537-2562.	3.3	108

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55	Evaluation of geostatistical techniques to estimate the spatial distribution of aboveground biomass in the Amazon rainforest using high-resolution remote sensing data. Acta Amazonica, 2016, 46, 151-160.	0.7	18
56	Modelling fire probability in the Brazilian Amazon using the maximum entropy method. International Journal of Wildland Fire, 2016, 25, 955.	2.4	29
57	Fires in Amazonia. Ecological Studies, 2016, , 301-329.	1.2	4
58	The extent of 2014 forest fragmentation in the Brazilian Amazon. Regional Environmental Change, 2016, 16, 2485-2490.	2.9	24
59	Toward an integrated monitoring framework to assess the effects of tropical forest degradation and recovery on carbon stocks and biodiversity. Global Change Biology, 2016, 22, 92-109.	9.5	165
60	Increased Wildfire Risk Driven by Climate and Development Interactions in the Bolivian Chiquitania, Southern Amazonia. PLoS ONE, 2016, 11, e0161323.	2.5	34
61	Assessing the Influence of Climate Extremes on Ecosystems and Human Health in Southwestern Amazon Supported by the PULSE-Brazil Platform. American Journal of Climate Change, 2016, 05, 399-416.	0.9	7
62	Disentangling the contribution of multiple land covers to fireâ€mediated carbon emissions in Amazonia during the 2010 drought. Global Biogeochemical Cycles, 2015, 29, 1739-1753.	4.9	63
63	Seasonality and drought effects of Amazonian forests observed from multi-angle satellite data. Remote Sensing of Environment, 2015, 171, 278-290.	11.0	32
64	Drought sensitivity of Amazonian carbon balance revealed by atmospheric measurements. Nature, 2014, 506, 76-80.	27.8	398
65	Environmental change and the carbon balance of <scp>A</scp>mazonian forests. Biological Reviews, 2014, 89, 913-931.	10.4	208
66	Application of remote sensing to understanding fire regimes and biomass burning emissions of the tropical Andes. Global Biogeochemical Cycles, 2014, 28, 480-496.	4.9	44
67	Persistent effects of a severe drought on Amazonian forest canopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 565-570.	7.1	334
68	Large-scale heterogeneity of Amazonian phenology revealed from 26-year long AVHRR/NDVI time-series. Environmental Research Letters, 2013, 8, 024011.	5.2	32
69	Biome-Scale Forest Properties in Amazonia Based on Field and Satellite Observations. Remote Sensing, 2012, 4, 1245-1271.	4.0	22
70	Fraction images for monitoring intra-annual phenology of different vegetation physiognomies in Amazonia. International Journal of Remote Sensing, 2011, 32, 387-408.	2.9	18
71	Relationships between phenology, radiation and precipitation in the Amazon region. Global Change Biology, 2011, 17, 2245-2260.	9.5	89
72	Using learning networks to understand complex systems: a case study of biological, geophysical and social research in the Amazon. Biological Reviews, 2011, 86, 457-474.	10.4	39

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73	Soils of Amazonia with particular reference to the RAINFOR sites. Biogeosciences, 2011, 8, 1415-1440.	3.3	340
74	Remote sensing detection of droughts in Amazonian forest canopies. New Phytologist, 2010, 187, 733-750.	7.3	174
75	Above- and below-ground net primary productivity across ten Amazonian forests on contrasting soils. Biogeosciences, 2009, 6, 2759-2778.	3.3	221
76	Spatial distribution and functional significance of leaf lamina shape in Amazonian forest trees. Biogeosciences, 2009, 6, 1577-1590.	3.3	25
77	Spatial trends in leaf size of Amazonian rainforest trees. Biogeosciences, 2009, 6, 1563-1576.	3.3	31
78	Influence of landscape heterogeneity on spatial patterns of wood productivity, wood specific density and above ground biomass in Amazonia. Biogeosciences, 2009, 6, 1883-1902.	3.3	40
79	Comprehensive assessment of carbon productivity, allocation and storage in three Amazonian forests. Global Change Biology, 2009, 15, 1255-1274.	9.5	280
80	Template phenology for vegetation models. , 2009, , .		0
81	Interactions between rainfall, deforestation and fires during recent years in the Brazilian Amazonia. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1779-1785.	4.0	290
82	Exploring the Biophysical Drivers of Amazon Phenology: Preparing Data Sets to Improve Dynamic Global Vegetation Models. , 2008, , .		1
83	Multitemporal analysis of the spectral response of scars of burnt areas using the Landsat/ETM sensor. , 2007, , .		1
84	Spatial patterns of the canopy stress during 2005 drought in Amazonia. , 2007, , .		3
85	Regional ecosystem structure and function: ecological insights from remote sensing of tropical forests. Trends in Ecology and Evolution, 2007, 22, 414-423.	8.7	295
86	Spatial patterns and fire response of recent Amazonian droughts. Geophysical Research Letters, 2007, 34, .	4.0	399
87	The Impact of Land Cover Change on Surface Energy and Water Balance in Mato Grosso, Brazil. Earth Interactions, 2006, 10, 1-17.	1.5	54
88	Using Fraction Images to Study Natural Land Cover Changes in the Amazon. , 2006, , .		0
89	Cropland expansion changes deforestation dynamics in the southern Brazilian Amazon. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14637-14641.	7.1	780
90	Rapid Assessment of Annual Deforestation in the Brazilian Amazon Using MODIS Data. Earth Interactions, 2005, 9, 1-22.	1.5	98

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91	DetecÃ§Ã£o de cicatrizes de Ã¡reas queimadas baseada no modelo linear de mistura espectral e imagens Ãndice de vegetaÃ§Ã£o utilizando dados multitemporais do sensor MODIS/TERRA no estado do Mato Grosso, AmazÃ´nia brasileira. Acta Amazonica, 2005, 35, 445-456.	0.7	20
92	Physical Landscape Correlates of the Expansion of Mechanized Agriculture in Mato Grosso, Brazil. Earth Interactions, 2005, 9, 1-18.	1.5	61
93	Cover: Multitemporal fraction images derived from Terra MODIS data for analysing land cover change over the Amazon region. International Journal of Remote Sensing, 2005, 26, 2251-2257.	2.9	16
94	Assessment of Deforestation in Near Real Time Over the Brazilian Amazon Using Multitemporal Fraction Images Derived From Terra MODIS. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 315-318.	3.1	54
95	Mapping regional land cover with MODIS data for biological conservation: Examples from the Greater Yellowstone Ecosystem, USA and Parï¿½ State, Brazil. Remote Sensing of Environment, 2004, 92, 67-83.	11.0	95
96	DinÂ¢mica das Queimadas no Cerrado do Estado do MaranhÃ£o, Nordeste do Brasil. Revista Do Departamento De Geografia, 0, 35, 1-14.	0.0	10