

Louis Giglio

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/628240/publications.pdf>

Version: 2024-02-01

86
papers

20,200
citations

27035

58
h-index

60403

85
g-index

86
all docs

86
docs citations

86
times ranked

15744
citing authors

#	ARTICLE	IF	CITATIONS
1	Letter to the editor on "Nonlinear dynamics of fires in Africa over recent decades controlled by precipitation". <i>Global Change Biology</i> , 2022, 28, 1197-1199.	4.2	1
2	A remote sensing-based approach to estimating the fire spread rate parameter for individual burn patch extraction. <i>International Journal of Remote Sensing</i> , 2022, 43, 649-673.	1.3	4
3	Assessment of satellite orbit-drift artifacts in the long-term AVHRR FireCCI11 global burned area data set. <i>Science of Remote Sensing</i> , 2022, 5, 100044.	2.2	7
4	Comment on Otáñ et al. Analysis of Trends in the FireCCI Global Long Term Burned Area Product (1982-2018). <i>Fire</i> 2021, 4, 74. <i>Fire</i> , 2022, 5, 52.	1.2	5
5	Impacts of large-scale refugee resettlement on LCLUC: Bidi Bidi refugee settlement, Uganda case study. <i>Environmental Research Letters</i> , 2022, 17, 064019.	2.2	3
6	Conflict and Climate: Drivers of Fire Activity in Syria in the Twenty-First Century. <i>Earth Interactions</i> , 2021, 25, 119-135.	0.7	6
7	Spectral and diurnal temporal suitability of GOES Advanced Baseline Imager (ABI) reflectance for burned area mapping. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 96, 102271.	1.4	4
8	Environmental and political implications of underestimated cropland burning in Ukraine. <i>Environmental Research Letters</i> , 2021, 16, 064019.	2.2	23
9	Validation of MCD64A1 and FireCCI51 cropland burned area mapping in Ukraine. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 102, 102443.	1.4	12
10	Satellite remote sensing of active fires: History and current status, applications and future requirements. <i>Remote Sensing of Environment</i> , 2021, 267, 112694.	4.6	92
11	Assessing the Shape Accuracy of Coarse Resolution Burned Area Identifications. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 1516-1526.	2.7	9
12	Forecasting Global Fire Emissions on Subseasonal to Seasonal (S2S) Time Scales. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001955.	1.3	13
13	Landsat-8 and Sentinel-2 burned area mapping - A combined sensor multi-temporal change detection approach. <i>Remote Sensing of Environment</i> , 2019, 231, 111254.	4.6	155
14	Changes in Fire Activity in Africa from 2002 to 2016 and Their Potential Drivers. <i>Geophysical Research Letters</i> , 2019, 46, 7643-7653.	1.5	56
15	Trends in Vegetation fires in South and Southeast Asian Countries. <i>Scientific Reports</i> , 2019, 9, 7422.	1.6	112
16	Historical background and current developments for mapping burned area from satellite Earth observation. <i>Remote Sensing of Environment</i> , 2019, 225, 45-64.	4.6	287
17	How well do global burned area products represent fire patterns in the Brazilian Savannas biome? An accuracy assessment of the MCD64 collections. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 78, 318-331.	1.4	35
18	Global validation of the collection 6 MODIS burned area product. <i>Remote Sensing of Environment</i> , 2019, 235, 111490.	4.6	125

#	ARTICLE	IF	CITATIONS
19	Spatial and temporal intercomparison of four global burned area products. <i>International Journal of Digital Earth</i> , 2019, 12, 460-484.	1.6	85
20	The Global Fire Atlas of individual fire size, duration, speed and direction. <i>Earth System Science Data</i> , 2019, 11, 529-552.	3.7	227
21	The Collection 6 MODIS burned area mapping algorithm and product. <i>Remote Sensing of Environment</i> , 2018, 217, 72-85.	4.6	606
22	A human-driven decline in global burned area. <i>Science</i> , 2017, 356, 1356-1362.	6.0	694
23	Global fire emissions estimates during 1997–2016. <i>Earth System Science Data</i> , 2017, 9, 697-720.	3.7	1,159
24	A pan-tropical cascade of fire driven by El Niño/Southern Oscillation. <i>Nature Climate Change</i> , 2017, 7, 906-911.	8.1	115
25	How much global burned area can be forecast on seasonal time scales using sea surface temperatures?. <i>Environmental Research Letters</i> , 2016, 11, 045001.	2.2	72
26	The collection 6 MODIS active fire detection algorithm and fire products. <i>Remote Sensing of Environment</i> , 2016, 178, 31-41.	4.6	837
27	A MODIS-based burned area assessment for Russian croplands: Mapping requirements and challenges. <i>Remote Sensing of Environment</i> , 2016, 184, 506-521.	4.6	95
28	Active fire detection using Landsat-8/OLI data. <i>Remote Sensing of Environment</i> , 2016, 185, 210-220.	4.6	193
29	Vegetation fires, absorbing aerosols and smoke plume characteristics in diverse biomass burning regions of Asia. <i>Environmental Research Letters</i> , 2015, 10, 105003.	2.2	93
30	Analysis of Southeast Asian pollution episode during June 2013 using satellite remote sensing datasets. <i>Environmental Pollution</i> , 2014, 195, 245-256.	3.7	72
31	A global feasibility assessment of the bi-spectral fire temperature and area retrieval using MODIS data. <i>Remote Sensing of Environment</i> , 2014, 152, 166-173.	4.6	30
32	The New VIIRS 375 m active fire detection data product: Algorithm description and initial assessment. <i>Remote Sensing of Environment</i> , 2014, 143, 85-96.	4.6	611
33	Active fires from the Suomi NPP Visible Infrared Imaging Radiometer Suite: Product status and first evaluation results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 803-816.	1.2	142
34	Satellite based analysis of fire–carbon monoxide relationships from forest and agricultural residue burning (2003–2011). <i>Atmospheric Environment</i> , 2013, 64, 179-191.	1.9	70
35	Patterns of fire activity over Indonesia and Malaysia from polar and geostationary satellite observations. <i>Atmospheric Research</i> , 2013, 122, 504-519.	1.8	69
36	Analysis of daily, monthly, and annual burned area using the fourth-generation global fire emissions database (GFED4). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 317-328.	1.3	1,086

#	ARTICLE	IF	CITATIONS
37	Observing and understanding the Southeast Asian aerosol system by remote sensing: An initial review and analysis for the Seven Southeast Asian Studies (7SEAS) program. <i>Atmospheric Research</i> , 2013, 122, 403-468.	1.8	269
38	Hotspot Analysis of Vegetation Fires and Intensity in the Indian Region. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013, 6, 224-238.	2.3	79
39	Satellite-based assessment of climate controls on US burned area. <i>Biogeosciences</i> , 2013, 10, 247-260.	1.3	44
40	Evaluating greenhouse gas emissions inventories for agricultural burning using satellite observations of active fires. <i>Ecological Applications</i> , 2012, 22, 1345-1364.	1.8	39
41	Regional fire monitoring and characterization using global NASA MODIS fire products in dry lands of Central Asia. <i>Frontiers of Earth Science</i> , 2012, 6, 196-205.	0.9	28
42	Vegetation fires in the himalayan region – Aerosol load, black carbon emissions and smoke plume heights. <i>Atmospheric Environment</i> , 2012, 47, 241-251.	1.9	117
43	Quantifying burned area for North American forests: Implications for direct reduction of carbon stocks. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
44	Mapping burned area in Alaska using MODIS data: a data limitations-driven modification to the regional burned area algorithm. <i>International Journal of Wildland Fire</i> , 2011, 20, 487.	1.0	35
45	Forecasting Fire Season Severity in South America Using Sea Surface Temperature Anomalies. <i>Science</i> , 2011, 334, 787-791.	6.0	197
46	Global assessment of the temporal reporting accuracy and precision of the MODIS burned area product. <i>International Journal of Wildland Fire</i> , 2010, 19, 705.	1.0	58
47	Assessing variability and long-term trends in burned area by merging multiple satellite fire products. <i>Biogeosciences</i> , 2010, 7, 1171-1186.	1.3	535
48	Early characterization of the active fire detection products derived from the next generation NPOESS/VIIRS and GOES-R/ABI instruments. , 2010, , .		4
49	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.	1.9	2,326
50	On the use of fire radiative power, area, and temperature estimates to characterize biomass burning via moderate to coarse spatial resolution remote sensing data in the Brazilian Amazon. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	50
51	MODIS-Derived Global Fire Products. <i>Remote Sensing and Digital Image Processing</i> , 2010, , 661-679.	0.7	41
52	Estimates of fire emissions from an active deforestation region in the southern Amazon based on satellite data and biogeochemical modelling. <i>Biogeosciences</i> , 2009, 6, 235-249.	1.3	76
53	An active-fire based burned area mapping algorithm for the MODIS sensor. <i>Remote Sensing of Environment</i> , 2009, 113, 408-420.	4.6	533
54	Estimating biomass consumed from fire using MODIS FRE. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	83

#	ARTICLE	IF	CITATIONS
55	An approach to estimate global biomass burning emissions of organic and black carbon from MODIS fire radiative power. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	162
56	Comment on "Reversal of trend of biomass burning in the Amazon" by Ilan Koren, Lorraine A. Remer, and Karla Longo. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	9
57	Global emissions of non-methane hydrocarbons deduced from SCIAMACHY formaldehyde columns through 2003-2006. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3663-3679.	1.9	144
58	Evaluating the performance of pyrogenic and biogenic emission inventories against one decade of space-based formaldehyde columns. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1037-1060.	1.9	198
59	Global characterization of biomass-burning patterns using satellite measurements of fire radiative energy. <i>Remote Sensing of Environment</i> , 2008, 112, 2950-2962.	4.6	159
60	Validation of GOES and MODIS active fire detection products using ASTER and ETM+ data. <i>Remote Sensing of Environment</i> , 2008, 112, 2711-2726.	4.6	263
61	Active fire detection and characterization with the advanced spaceborne thermal emission and reflection radiometer (ASTER). <i>Remote Sensing of Environment</i> , 2008, 112, 3055-3063.	4.6	140
62	Global characterization of fire activity: toward defining fire regimes from Earth observation data. <i>Global Change Biology</i> , 2008, 14, 1488-1502.	4.2	275
63	Climate controls on the variability of fires in the tropics and subtropics. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	238
64	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.	3.3	336
65	Characterization of the tropical diurnal fire cycle using VIRS and MODIS observations. <i>Remote Sensing of Environment</i> , 2007, 108, 407-421.	4.6	225
66	Time-dependent inversion estimates of global biomass-burning CO emissions using Measurement of Pollution in the Troposphere (MOPITT) measurements. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	94
67	Global distribution and seasonality of active fires as observed with the Terra and Aqua Moderate Resolution Imaging Spectroradiometer (MODIS) sensors. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	493
68	Validation of active fire detection from moderate-resolution satellite sensors: the MODIS example in northern Eurasia. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 1757-1764.	2.7	133
69	Characterizing Vegetation Fire Dynamics in Brazil through Multisatellite Data: Common Trends and Practical Issues. <i>Earth Interactions</i> , 2005, 9, 1-26.	0.7	62
70	Global fire activity from two years of MODIS data. <i>International Journal of Wildland Fire</i> , 2005, 14, 117.	1.0	76
71	Validation of MODIS Active Fire Detection Products Derived from Two Algorithms. <i>Earth Interactions</i> , 2005, 9, 1-25.	0.7	112
72	Validation of the MODIS active fire product over Southern Africa with ASTER data. <i>International Journal of Remote Sensing</i> , 2005, 26, 4239-4264.	1.3	145

#	ARTICLE	IF	CITATIONS
73	Continental-Scale Partitioning of Fire Emissions During the 1997 to 2001 El Nino/La Nina Period. <i>Science</i> , 2004, 303, 73-76.	6.0	549
74	Top-down estimates of global CO sources using MOPITT measurements. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	122
75	Correction to "Top-down estimates of global CO sources using MOPITT measurements". <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	4
76	An Enhanced Contextual Fire Detection Algorithm for MODIS. <i>Remote Sensing of Environment</i> , 2003, 87, 273-282.	4.6	1,433
77	Carbon emissions from fires in tropical and subtropical ecosystems. <i>Global Change Biology</i> , 2003, 9, 547-562.	4.2	390
78	Comment on "Seasonal, intraseasonal, and interannual variability of global land fires and their effects on atmospheric aerosol distribution" by Y. Ji and E. Stocker. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	6
79	Application of the Dozier retrieval to wildfire characterization: a sensitivity analysis. <i>Remote Sensing of Environment</i> , 2001, 77, 34-49.	4.6	121
80	The Moderate Resolution Imaging Spectroradiometer (MODIS): land remote sensing for global change research. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998, 36, 1228-1249.	2.7	1,178
81	Potential global fire monitoring from EOS-MODIS. <i>Journal of Geophysical Research</i> , 1998, 103, 32215-32238.	3.3	521
82	A simplified scheme for obtaining precipitation and vertical hydrometeor profiles from passive microwave sensors. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1996, 34, 1213-1232.	2.7	447
83	A Method for Combined Passive-Active Microwave Retrievals of Cloud and Precipitation Profiles. <i>Journal of Applied Meteorology and Climatology</i> , 1996, 35, 1763-1789.	1.7	123
84	A Method for Combining Passive Microwave and Infrared Rainfall Observations. <i>Journal of Atmospheric and Oceanic Technology</i> , 1995, 12, 33-45.	0.5	48
85	A Passive Microwave Technique for Estimating Rainfall and Vertical Structure Information from Space. Part I: Algorithm Description. <i>Journal of Applied Meteorology and Climatology</i> , 1994, 33, 3-18.	1.7	182
86	A Passive Microwave Technique for Estimating Rainfall and Vertical Structure Information from Space. Part II: Applications to SSM/I Data. <i>Journal of Applied Meteorology and Climatology</i> , 1994, 33, 19-34.	1.7	54