Gitta Lasslop

List of Publications by Year
in descending order

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48 papers	8,151 citations	159358 30 h-index	233125 45 g-index
65 all docs	65 docs citations	65 times ranked	10618 citing authors

#	Article	IF	Citations
1	Terrestrial Gross Carbon Dioxide Uptake: Global Distribution and Covariation with Climate. Science, 2010, 329, 834-838.	6.0	2,056
2	Global patterns of land-atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observations. Journal of Geophysical Research, 2011, 116, .	3.3	933
3	Separation of net ecosystem exchange into assimilation and respiration using a light response curve approach: critical issues and global evaluation. Global Change Biology, 2010, 16, 187-208.	4.2	752
4	A human-driven decline in global burned area. Science, 2017, 356, 1356-1362.	6.0	694
5	Developments in the MPIâ€M Earth System Model version 1.2 (MPIâ€ESM1.2) and Its Response to Increasing CO₂. Journal of Advances in Modeling Earth Systems, 2019, 11, 998-1038.	1.3	582
6	Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level. Science, 2010, 329, 838-840.	6.0	446
7	Historic global biomass burning emissions for CMIP6 (BB4CMIP) based on merging satellite observations with proxies and fire models (1750â€“2015). Geoscientific Model Development, 2017, 10, 3329-3357.	1.3	322
8	The status and challenge of global fire modelling. Biogeosciences, 2016, 13, 3359-3375.	1.3	274
9	Global and Regional Trends and Drivers of Fire Under Climate Change. Reviews of Geophysics, 2022, 60, .	9.0	182
10	Reconciling leaf physiological traits and canopy flux data: Use of the TRY and FLUXNET databases in the Community Land Model version 4. Journal of Geophysical Research, 2012, 117, .	3.3	169
11	The Fire Modeling Intercomparison Project (FireMIP), phase 1: experimental and analytical protocols with detailed model descriptions. Geoscientific Model Development, 2017, 10, 1175-1197.	1.3	159
12	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. Global Change Biology, 2011, 17, 390-409.	4.2	128
13	Influences of observation errors in eddy flux data on inverse model parameter estimation. Biogeosciences, 2008, 5, 1311-1324.	1.3	112
14	SPITFIRE within the MPI <scp>E</scp>arth system model: <scp>M</scp>odel development and evaluation. Journal of Advances in Modeling Earth Systems, 2014, 6, 740-755.	1.3	100
15	Emergent relationships with respect to burned area in global satellite observations and fire-enabled vegetation models. Biogeosciences, 2019, 16, 57-76.	1.3	85
16	Influence of Fire on the Carbon Cycle and Climate. Current Climate Change Reports, 2019, 5, 112-123.	2.8	81
17	Uncertainty Quantification. , 2012, , 173-209.		69
18	Effect of spatial sampling from European flux towers for estimating carbon and water fluxes with artificial neural networks. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1941-1957.	1.3	65

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19	Historical (1700â€“2012) global multi-model estimates of the fire emissions from the Fire Modeling Intercomparison Project (FireMIP). Atmospheric Chemistry and Physics, 2019, 19, 12545-12567.	1.9	64
20	Quantitative assessment of fire and vegetation properties in simulations with fire-enabled vegetation models from the Fire Model Intercomparison Project. Geoscientific Model Development, 2020, 13, 3299-3318.	1.3	63
21	Recent global and regional trends in burned area and their compensating environmental controls. Environmental Research Communications, 2019, 1, 051005.	0.9	55
22	Global ecosystems and fire: Multiâ€model assessment of fireâ€induced treeâ€cover and carbon storage reduction. Global Change Biology, 2020, 26, 5027-5041.	4.2	55
23	Anthropogenic effects on global mean fire size. International Journal of Wildland Fire, 2015, 24, 589.	1.0	54
24	Multiple stable states of tree cover in a global land surface model due to a fireâ€vegetation feedback. Geophysical Research Letters, 2016, 43, 6324-6331.	1.5	54
25	A data-driven approach to identify controls on global fire activity from satellite and climate observations (SOFIA V1). Geoscientific Model Development, 2017, 10, 4443-4476.	1.3	51
26	Historical and future fire occurrence (1850 to 2100) simulated in CMIP5 Earth System Models. Global and Planetary Change, 2017, 150, 58-69.	1.6	49
27	Effects of climate variability and functional changes on the interannual variation of the carbon balance in a temperate deciduous forest. Biogeosciences, 2012, 9, 13-28.	1.3	48
28	Treatment and assessment of the CO2-exchange at a complex forest site in Thuringia, Germany. Agricultural and Forest Meteorology, 2010, 150, 684-691.	1.9	46
29	On the choice of the driving temperature for eddy-covariance carbon dioxide flux partitioning. Biogeosciences, 2012, 9, 5243-5259.	1.3	45
30	Wildfires in a warmer climate: Emission fluxes, emission heights, and black carbon concentrations in 2090â€“2099. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3195-3223.	1.2	37
31	Human impact on wildfires varies between regions and with vegetation productivity. Environmental Research Letters, 2017, 12, 115011.	2.2	34
32	Partitioning of Net Fluxes. , 2012, , 263-289.		33
33	Land use intensification increasingly drives the spatiotemporal patterns of the global human appropriation of net primary production in the last century. Global Change Biology, 2022, 28, 307-322.	4.2	33
34	Response of simulated burned area to historical changes in environmental and anthropogenic factors: a comparison of seven fire models. Biogeosciences, 2019, 16, 3883-3910.	1.3	32
35	Rare, Intense, Big fires dominate the global tropics under drier conditions. Scientific Reports, 2017, 7, 14374.	1.6	30
36	Comment on Vickers et al.: Self-correlation between assimilation and respiration resulting from flux partitioning of eddy-covariance CO2 fluxes. Agricultural and Forest Meteorology, 2010, 150, 312-314.	1.9	28

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37	Influence of wind speed on the global variability of burned fraction: a global fire modelâ€™s perspective. International Journal of Wildland Fire, 2015, 24, 989.	1.0	19
38	Random errors in carbon and water vapor fluxes assessed with Gaussian Processes. Agricultural and Forest Meteorology, 2013, 178-179, 161-172.	1.9	18
39	Reduced global fire activity due to human demography slows global warming by enhanced land carbon uptake. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2101186119.	3.3	12
40	Impact of fuel variability on wildfire emission estimates. Atmospheric Environment, 2015, 121, 93-102.	1.9	11
41	Tropical climateâ€“vegetationâ€“fire relationships: multivariate evaluation of the land surface model JSBACH. Biogeosciences, 2018, 15, 5969-5989.	1.3	10
42	Response to Comment on â€œGlobal Convergence in the Temperature Sensitivity of Respiration at Ecosystem Levelâ€• Science, 2011, 331, 1265-1265.	6.0	9
43	Lightning Forcing in Global Fire Models: The Importance of Temporal Resolution. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 168-177.	1.3	6
44	Linking Vegetation-Climate-Fire Relationships in Sub-Saharan Africa to Key Ecological Processes in Two Dynamic Global Vegetation Models. Frontiers in Environmental Science, 2020, 8, .	1.5	6
45	Vegetation biomass change in China in the 20th century: an assessment based on a combination of multi-model simulations and field observations. Environmental Research Letters, 2020, 15, 094026.	2.2	6
46	Correction to â€œGlobal patterns of landâ€“atmosphere fluxes of carbon dioxide, latent heat, and sensible heat derived from eddy covariance, satellite, and meteorological observationsâ€• Journal of Geophysical Research, 2012, 117, .	3.3	5
47	Corrigendum to "Effects of climate variability and functional changes on the interannual variation of the carbon balance in a temperate deciduous forest" published in Biogeosciences, 9, 13â€“28, 2012. Biogeosciences, 2012, 9, 715-715.	1.3	1
48	Editorial: Climate, Land Use, and Fire: Can Models Inform Management?. Frontiers in Earth Science, 2020, 8, .	0.8	1