Gregory Duveiller

List of Publications by Year
in descending order

62 papers	4,101 citations	126907 33 h-index	155660 55 g-index
90 all docs	90 docs citations	90 times ranked	4947 citing authors

#	Article	IF	Citations
1	Remote sensing for agricultural applications: A meta-review. Remote Sensing of Environment, 2020, 236, 111402.	11.0	763
2	The mark of vegetation change on Earthâ€™s surface energy balance. Nature Communications, 2018, 9, 679.	12.8	325
3	Deforestation in Central Africa: Estimates at regional, national and landscape levels by advanced processing of systematically-distributed Landsat extracts. Remote Sensing of Environment, 2008, 112, 1969-1981.	11.0	203
4	Abrupt increase in harvested forest area over Europe after 2015. Nature, 2020, 583, 72-77.	27.8	198
5	A unified vegetation index for quantifying the terrestrial biosphere. Science Advances, 2021, 7, .	10.3	160
6	Increased control of vegetation on global terrestrial energy fluxes. Nature Climate Change, 2020, 10, 356-362.	18.8	152
7	Potential performances of remotely sensed LAI assimilation in WOFOST model based on an OSS Experiment. Agricultural and Forest Meteorology, 2011, 151, 1843-1855.	4.8	135
8	A conceptual framework to define the spatial resolution requirements for agricultural monitoring using remote sensing. Remote Sensing of Environment, 2010, 114, 2637-2650.	11.0	131
9	Estimation of Terrestrial Global Gross Primary Production (GPP) with Satellite Data-Driven Models and Eddy Covariance Flux Data. Remote Sensing, 2018, 10, 1346.	4.0	122
10	Estimating regional winter wheat yield with WOFOST through the assimilation of green area index retrieved from MODIS observations. Agricultural and Forest Meteorology, 2012, 164, 39-52.	4.8	112
11	Spatially downscaling sun-induced chlorophyll fluorescence leads to an improved temporal correlation with gross primary productivity. Remote Sensing of Environment, 2016, 182, 72-89.	11.0	109
12	Estimating and understanding crop yields with explainable deep learning in the Indian Wheat Belt. Environmental Research Letters, 2020, 15, 024019.	5.2	104
13	A global dataset of air temperature derived from satellite remote sensing and weather stations. Scientific Data, 2018, 5, 180246.	5.3	99
14	Retrieving wheat Green Area Index during the growing season from optical time series measurements based on neural network radiative transfer inversion. Remote Sensing of Environment, 2011, 115, 887-896.	11.0	94
15	Towards regional grain yield forecasting with 1km-resolution EO biophysical products: Strengths and limitations at pan-European level. Agricultural and Forest Meteorology, 2015, 206, 12-32.	4.8	88
16	Revisiting the concept of a symmetric index of agreement for continuous datasets. Scientific Reports, 2016, 6, 19401.	3.3	70
17	Crop specific green area index retrieval from MODIS data at regional scale by controlling pixel-target adequacy. Remote Sensing of Environment, 2011, 115, 2686-2701.	11.0	69
18	Widespread increasing vegetation sensitivity to soil moisture. Nature Communications, 2022, 13, .	12.8	69

#	Article	IF	Citations
19	Local biophysical effects of land use and land cover change: towards an assessment tool for policy makers. Land Use Policy, 2020, 91, 104382.	5.6	64
20	Defining the Spatial Resolution Requirements for Crop Identification Using Optical Remote Sensing. Remote Sensing, 2014, 6, 9034-9063.	4.0	63
21	Satellite Observations of the Contrasting Response of Trees and Grasses to Variations in Water Availability. Geophysical Research Letters, 2019, 46, 1429-1440.	4.0	61
22	Global Climate. Bulletin of the American Meteorological Society, 2020, 101, S9-S128.	3.3	61
23	A framework for harmonizing multiple satellite instruments to generate a long-term global high spatial-resolution solar-induced chlorophyll fluorescence (SIF). Remote Sensing of Environment, 2020, 239, 111644.	11.0	57
24	Climate change impact and potential adaptation strategies under alternate realizations of climate scenarios for three major crops in Europe. Environmental Research Letters, 2015, 10, 075005.	5.2	54
25	A spatially downscaled sun-induced fluorescence global product for enhanced monitoring of vegetation productivity. Earth System Science Data, 2020, 12, 1101-1116.	9.9	52
26	Vegetation-based climate mitigation in a warmer and greener World. Nature Communications, 2022, 13, 606.	12.8	51
27	Biophysics and vegetation cover change: a process-based evaluation framework for confronting land surface models with satellite observations. Earth System Science Data, 2018, 10, 1265-1279.	9.9	46
28	Revealing the widespread potential of forests to increase low level cloud cover. Nature Communications, 2021, 12, 4337.	12.8	45
29	Enhanced Processing of 1-km Spatial Resolution fAPAR Time Series for Sugarcane Yield Forecasting and Monitoring. Remote Sensing, 2013, 5, 1091-1116.	4.0	44
30	A dataset mapping the potential biophysical effects of vegetation cover change. Scientific Data, 2018, 5, 180014.	5.3	41
31	Sensitivity of L-band vegetation optical depth to carbon stocks in tropical forests: a comparison to higher frequencies and optical indices. Remote Sensing of Environment, 2019, 232, 111303.	11.0	40
32	Remotely sensed green area index for winter wheat crop monitoring: 10-Year assessment at regional scale over a fragmented landscape. Agricultural and Forest Meteorology, 2012, 166-167, 156-168.	4.8	39
33	Estimating regional wheat yield from the shape of decreasing curves of green area index temporal profiles retrieved from MODIS data. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 111-118.	2.8	36
34	Global long-term mapping of surface temperature shows intensified intra-city urban heat island extremes. Global Environmental Change, 2022, 72, 102441.	7.8	34
35	Assessing the dynamics of vegetation productivity in circumpolar regions with different satellite indicators of greenness and photosynthesis. Biogeosciences, 2018, 15, 6221-6256.	3.3	28
36	Adaptation and sustainability of water management for rice agriculture in temperate regions: The Italian caseâ€study. Land Degradation and Development, 2019, 30, 2033-2047.	3.9	26

#	Article	IF	Citations
37	Maximising climate mitigation potential by carbon and radiative agricultural land management with cover crops. Environmental Research Letters, 2020, 15, 094075.	5.2	26
38	Exploiting the multi-angularity of the MODIS temporal signal to identify spatially homogeneous vegetation cover: A demonstration for agricultural monitoring applications. Remote Sensing of Environment, 2015, 166, 61-77.	11.0	25
39	Evaluating the Interplay Between Biophysical Processes and Leaf Area Changes in Land Surface Models. Journal of Advances in Modeling Earth Systems, 2018, 10, 1102-1126.	3.8	22
40	A dataset of future daily weather data for crop modelling over Europe derived from climate change scenarios. Theoretical and Applied Climatology, 2017, 127, 573-585.	2.8	21
41	Clouds damp the radiative impacts of polar sea ice loss. Cryosphere, 2020, 14, 2673-2686.	3.9	19
42	On the realistic contribution of European forests to reach climate objectives. Carbon Balance and Management, 2019, 14, 8.	3.2	18
43	Using Thermal Time and Pixel Purity for Enhancing Biophysical Variable Time Series: An Interproduct Comparison. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2119-2127.	6.3	17
44	Reply to Wernick, I. K. et al.; PalahÃ; M. et al.. Nature, 2021, 592, E18-E23.	27.8	16
45	A study on trade-offs between spatial resolution and temporal sampling density for wheat yield estimation using both thermal and calendar time. International Journal of Applied Earth Observation and Geoinformation, 2020, 86, 101988.	2.8	15
46	Testing the Contribution of Stress Factors to Improve Wheat and Maize Yield Estimations Derived from Remotely-Sensed Dry Matter Productivity. Remote Sensing, 2016, 8, 170.	4.0	12
47	Estimating crop-specific evapotranspiration using remote-sensing imagery at various spatial resolutions for improving crop growth modelling. International Journal of Remote Sensing, 2013, 34, 3274-3288.	2.9	9
48	Local adjustments of image spatial resolution to optimize large-area mapping in the era of big data. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 374-385.	2.8	9
49	Impacts of a revised surface roughness parameterization in the Community Land Model 5.1. Geoscientific Model Development, 2022, 15, 2365-2393.	3.6	9
50	A Crop Group-Specific Pure Pixel Time Series for Europe. Remote Sensing, 2019, 11, 2668.	4.0	5
51	From Anopheles to Spatial Surveillance: A Roadmap Through a Multidisciplinary Challenge. , 0, , .		4
52	Einfluss der thematischen und rÃumlichen AuflÃ¶sung auf die Ã¼berwachte, fernerkundungsbasierte Feldfrucht-Klassifizierung.. Photogrammetrie, Fernerkundung, Geoinformation, 2015, 2015, 7-20.	1.2	4
53	Biases in the albedo sensitivity to deforestation in CMIP5 models and their impacts on the associated historical radiative forcing. Earth System Dynamics, 2020, 11, 1209-1232.	7.1	4
54	Caveats in calculating crop specific pixel purity for agricultural monitoring using MODIS time series. Proceedings of SPIE, 2012, , .	0.8	3

#	Article	IF	Citations
55	Spatial homogeneity from temporal stability: Exploiting the combined hyper-frequent revisit of Terra and Aqua to guide Earth System Science. Remote Sensing of Environment, 2021, 261, 112496.	11.0	2
56	A Method to Determine the Appropriate Spatial Resolution Required for Monitoring Crop Growth in a given Agricultural Landscape. , 2008, , .		1
57	Monitoring crop growth inter-annual variability from MODIS time series: Performance comparison between crop specific green area index and current global leaf area index products. , 2011, , .		1
58	Mapping winter and summer crops in Uruguay using MODIS time series. , 2013, , .		1
59	Determining suitable image resolutions for accurate supervised crop classification using remote sensing data. , 2013, , .		1
60	Potentials and limitations of NFIs and remote sensing in the assessment of harvest rates: a reply to Breidenbach et al.. Annals of Forest Science, 2022, 79, .	2.0	1
61	Exploring the capacity to grasp multi-annual seasonal variability of winter wheat in Continental Climates with MODIS. , 2011, , .		0
62	Correction to "Using thermal time and pixel purity for enhancing biophysical variable time series: An interproduct comparison" [Apr 13 2119-2127]. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4911-4911.	6.3	0