

## List of Publications by Year in descending order

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73  
papers

6,238  
citations

117625

34  
h-index

76900

74  
g-index

84  
all docs

84  
docs citations

84  
times ranked

7948  
citing authors

#	ARTICLE	IF	CITATIONS
1	Greenhouse gas observation network design for Africa. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1824486.	1.6	8
2	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	9.5	113
3	A physiology-based Earth observation model indicates stagnation in the global gross primary production during recent decades. <i>Global Change Biology</i> , 2021, 27, 836-854.	9.5	25
4	Contrasting responses of woody and herbaceous vegetation to altered rainfall characteristics in the Sahel. <i>Biogeosciences</i> , 2021, 18, 77-93.	3.3	11
5	Modelling Daily Gross Primary Productivity with Sentinel-2 Data in the Nordic Region – Comparison with Data from MODIS. <i>Remote Sensing</i> , 2021, 13, 469.	4.0	12
6	Temperature thresholds of ecosystem respiration at a global scale. <i>Nature Ecology and Evolution</i> , 2021, 5, 487-494.	7.8	46
7	A Sentinel-2 Dataset for Uganda. <i>Data</i> , 2021, 6, 35.	2.3	1
8	Sun-induced fluorescence and near-infrared reflectance of vegetation track the seasonal dynamics of gross primary production over Africa. <i>Biogeosciences</i> , 2021, 18, 2843-2857.	3.3	15
9	Improvement of modeling plant responses to low soil moisture in JULESv4.9 and evaluation against flux tower measurements. <i>Geoscientific Model Development</i> , 2021, 14, 3269-3294.	3.6	15
10	Calibrating vegetation phenology from Sentinel-2 using eddy covariance, PhenoCam, and PEP725 networks across Europe. <i>Remote Sensing of Environment</i> , 2021, 260, 112456.	11.0	56
11	The International Soil Moisture Network: serving Earth system science for over a decade. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5749-5804.	4.9	116
12	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	5.3	646
13	Climate Change and the Future Heat Stress Challenges among Smallholder Farmers in East Africa. <i>Atmosphere</i> , 2020, 11, 753.	2.3	17
14	The 2000–2017 drought risk assessment of the western and southwestern basins in Iran. <i>Modeling Earth Systems and Environment</i> , 2020, 6, 1201-1221.	3.4	22
15	Recent divergence in the contributions of tropical and boreal forests to the terrestrial carbon sink. <i>Nature Ecology and Evolution</i> , 2020, 4, 202-209.	7.8	93
16	SoilTemp: A global database of near-surface temperature. <i>Global Change Biology</i> , 2020, 26, 6616-6629.	9.5	122
17	A New Retrieval Algorithm for Soil Moisture Index from Thermal Infrared Sensor On-Board Geostationary Satellites over Europe and Africa and Its Validation. <i>Remote Sensing</i> , 2019, 11, 1968.	4.0	12
18	First assessment of the plant phenology index (PPI) for estimating gross primary productivity in African semi-arid ecosystems. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 78, 249-260.	2.8	18

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19	Spatio-temporal Convergence of Maximum Daily Light-use Efficiency Based on Radiation Absorption by Canopy Chlorophyll. <i>Geophysical Research Letters</i> , 2018, 45, 3508-3519.	4.0	48
20	MODIS EVI-based net primary production in the Sahel 2000–2014. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 65, 35-45.	2.8	8
21	Effect of climate dataset selection on simulations of terrestrial GPP: Highest uncertainty for tropical regions. <i>PLoS ONE</i> , 2018, 13, e0199383.	2.5	10
22	Estimating Grazing Potentials in Sudan Using Daily Carbon Allocation in Dynamic Vegetation Model. <i>Rangeland Ecology and Management</i> , 2018, 71, 792-797.	2.3	4
23	Remotely sensed soil moisture to estimate savannah NDVI. <i>PLoS ONE</i> , 2018, 13, e0200328.	2.5	9
24	Coupling of ecosystem-scale plant water storage and leaf phenology observed by satellite. <i>Nature Ecology and Evolution</i> , 2018, 2, 1428-1435.	7.8	114
25	Dynamic response of NDVI to soil moisture variations during different hydrological regimes in the Sahel region. <i>International Journal of Remote Sensing</i> , 2017, 38, 5408-5429.	2.9	35
26	New data-driven estimation of terrestrial CO <sub>2</sub> fluxes in Asia using a standardized database of eddy covariance measurements, remote sensing data, and support vector regression. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 767-795.	3.0	90
27	Estimation of high-resolution terrestrial evapotranspiration from Landsat data using a simple Taylor skill fusion method. <i>Journal of Hydrology</i> , 2017, 553, 508-526.	5.4	41
28	Evaluating Water Controls on Vegetation Growth in the Semi-Arid Sahel Using Field and Earth Observation Data. <i>Remote Sensing</i> , 2017, 9, 294.	4.0	13
29	Modelling spatial and temporal dynamics of gross primary production in the Sahel from earth-observation-based photosynthetic capacity and quantum efficiency. <i>Biogeosciences</i> , 2017, 14, 1333-1348.	3.3	16
30	Future supply and demand of net primary production in the Sahel. <i>Earth System Dynamics</i> , 2017, 8, 1191-1221.	7.1	3
31	Very high CO <sub>2</sub> exchange fluxes at the peak of the rainy season in a West African grazed semi-arid savanna ecosystem. <i>Geografisk Tidsskrift</i> , 2016, 116, 93-109.	0.6	18
32	Spatiotemporal variability in carbon exchange fluxes across the Sahel. <i>Agricultural and Forest Meteorology</i> , 2016, 226-227, 108-118.	4.8	27
33	Estimating and Analyzing Savannah Phenology with a Lagged Time Series Model. <i>PLoS ONE</i> , 2016, 11, e0154615.	2.5	15
34	Annoyance, Sleep and Concentration Problems due to Combined Traffic Noise and the Benefit of Quiet Side. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 1612-1628.	2.6	83
35	Deriving seasonal dynamics in ecosystem properties of semi-arid savanna grasslands from in situ-based hyperspectral reflectance. <i>Biogeosciences</i> , 2015, 12, 4621-4635.	3.3	10
36	Comparison between remote sensing and a dynamic vegetation model for estimating terrestrial primary production of Africa. <i>Carbon Balance and Management</i> , 2015, 10, 8.	3.2	32

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37	Ecosystem properties of semiarid savanna grassland in West Africa and its relationship with environmental variability. <i>Global Change Biology</i> , 2015, 21, 250-264.	9.5	91
38	Dynamics in carbon exchange fluxes for a grazed semi-arid savanna ecosystem in West Africa. <i>Agriculture, Ecosystems and Environment</i> , 2015, 205, 15-24.	5.3	51
39	Detecting changes in vegetation trends using time series segmentation. <i>Remote Sensing of Environment</i> , 2015, 156, 182-195.	11.0	219
40	Crop Yield Gaps in Cameroon. <i>Ambio</i> , 2014, 43, 175-190.	5.5	42
41	A Surface Temperature Initiated Closure (STIC) for surface energy balance fluxes. <i>Remote Sensing of Environment</i> , 2014, 141, 243-261.	11.0	83
42	Automated mapping of vegetation trends with polynomials using NDVI imagery over the Sahel. <i>Remote Sensing of Environment</i> , 2014, 141, 79-89.	11.0	109
43	Evaluation of MODIS gross primary productivity for Africa using eddy covariance data. <i>Remote Sensing of Environment</i> , 2013, 131, 275-286.	11.0	125
44	Relation between Seasonally Detrended Shortwave Infrared Reflectance Data and Land Surface Moisture in Semi-Arid Sahel. <i>Remote Sensing</i> , 2013, 5, 2898-2927.	4.0	32
45	Improving operational land surface model canopy evapotranspiration in Africa using a direct remote sensing approach. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1079-1091.	4.9	34
46	A 10-Year Dataset of Basic Meteorology and Soil Properties in Central Sudan. <i>Dataset Papers in Geosciences</i> , 2013, 2013, 1-6.	0.3	15
47	An underestimated role of precipitation frequency in regulating summer soil moisture. <i>Environmental Research Letters</i> , 2012, 7, 024011.	5.2	34
48	Challenges for drought mitigation in Africa: The potential use of geospatial data and drought information systems. <i>Applied Geography</i> , 2012, 34, 471-486.	3.7	127
49	Estimation of daily evapotranspiration over Africa using MODIS/Terra and SEVIRI/MSG data. <i>Atmospheric Research</i> , 2012, 112, 35-44.	4.1	32
50	Measured and modeled personal and environmental NO <sub>2</sub> exposure. <i>Population Health Metrics</i> , 2012, 10, 10.	2.7	22
51	Survey context and question wording affects self reported annoyance due to road traffic noise: a comparison between two cross-sectional studies. <i>Environmental Health</i> , 2012, 11, 14.	4.0	17
52	Improving evapotranspiration in a land surface model using biophysical variables derived from MSG/SEVIRI satellite. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2567-2583.	4.9	40
53	Mapping daily evapotranspiration and dryness index in the East African highlands using MODIS and SEVIRI data. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 163-170.	4.9	21
54	Work stress, worries, and pain interact synergistically with modelled traffic noise on cross-sectional associations with self-reported sleep problems. <i>International Archives of Occupational and Environmental Health</i> , 2011, 84, 211-224.	2.3	12

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55	Exploring the potential of MODIS EVI for modeling gross primary production across African ecosystems. <i>Remote Sensing of Environment</i> , 2011, 115, 1081-1089.	11.0	113
56	Patterns and controls of the variability of radiation use efficiency and primary productivity across terrestrial ecosystems. <i>Global Ecology and Biogeography</i> , 2010, 19, 253-267.	5.8	201
57	Changes in soil properties following conversion of Acacia senegal plantation to other land management systems in North Kordofan State, Sudan. <i>Journal of Arid Environments</i> , 2009, 73, 499-505.	2.4	26
58	Road traffic noise and hypertension: results from a cross-sectional public health survey in southern Sweden. <i>Environmental Health</i> , 2009, 8, 38.	4.0	102
59	Seasonal variation of carbon fluxes in a sparse savanna in semi arid Sudan. <i>Carbon Balance and Management</i> , 2008, 3, 7.	3.2	55
60	Trait anxiety and modeled exposure as determinants of self-reported annoyance to sound, air pollution and other environmental factors in the home. <i>International Archives of Occupational and Environmental Health</i> , 2007, 81, 179-191.	2.3	53
61	Road traffic noise in southern Sweden and its relation to annoyance, disturbance of daily activities and health. <i>Scandinavian Journal of Work, Environment and Health</i> , 2006, 32, 392-401.	3.4	55
62	Determinants of woody cover in African savannas. <i>Nature</i> , 2005, 438, 846-849.	27.8	1,543
63	A recent greening of the Sahel—trends, patterns and potential causes. <i>Journal of Arid Environments</i> , 2005, 63, 556-566.	2.4	441
64	Precipitation controls Sahel greening trend. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	195
65	Critical Loads of Acidity for Forest Soils and Relationship to Forest Decline in the Northern Czech Republic. <i>Environmental Monitoring and Assessment</i> , 2004, 98, 363-379.	2.7	25
66	Soil Carbon Sequestration in Traditional Farming in Sudanese Dry Lands. <i>Environmental Management</i> , 2004, 33, S318.	2.7	12
67	Effects of Data Uncertainties on Estimated Soil Organic Carbon in the Sudan. <i>Environmental Management</i> , 2004, 33, S405.	2.7	3
68	Verification of Soil Carbon Sequestration?Sample Requirements. <i>Environmental Management</i> , 2004, 33, S416.	2.7	19
69	A remote sensing-based primary production model for grassland biomes. <i>Ecological Modelling</i> , 2003, 169, 131-155.	2.5	120
70	Assessment of soil organic carbon in semi-arid Sudan using GIS and the CENTURY model. <i>Journal of Arid Environments</i> , 2003, 54, 633-651.	2.4	96
71	Desert Locust Control in Ecologically Sensitive Areas: Need for Guidelines.. <i>Ambio</i> , 2003, 32, 463-468.	5.5	15
72	Soil Carbon Sequestration in Degraded Semiarid Agro-ecosystems—Perils and Potentials. <i>Ambio</i> , 2002, 31, 471-477.	5.5	63

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73	Critical Levels of SO <sub>2</sub> in Northern Czech Republic - Uncertainty and Relationship to Regional Forest Decline. Geographical and Environmental Modelling, 2000, 4, 131-161.	0.7	6