

Matthias Forkel

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

4,423
citations

185998

28
h-index

264894

42
g-index

85
all docs

85
docs citations

85
times ranked

6466
citing authors

#	ARTICLE	IF	CITATIONS
1	ESA CCI Soil Moisture for improved Earth system understanding: State-of-the art and future directions. <i>Remote Sensing of Environment</i> , 2017, 203, 185-215.	4.6	781
2	Global covariation of carbon turnover times with climate in terrestrial ecosystems. <i>Nature</i> , 2014, 514, 213-217.	13.7	648
3	Trend Change Detection in NDVI Time Series: Effects of Inter-Annual Variability and Methodology. <i>Remote Sensing</i> , 2013, 5, 2113-2144.	1.8	354
4	Enhanced seasonal CO ₂ exchange caused by amplified plant productivity in northern ecosystems. <i>Science</i> , 2016, 351, 696-699.	6.0	319
5	Widespread seasonal compensation effects of spring warming on northern plant productivity. <i>Nature</i> , 2018, 562, 110-114.	13.7	240
6	Global and Regional Trends and Drivers of Fire Under Climate Change. <i>Reviews of Geophysics</i> , 2022, 60, .	9.0	182
7	Codominant water control on global interannual variability and trends in land surface phenology and greenness. <i>Global Change Biology</i> , 2015, 21, 3414-3435.	4.2	165
8	LPJmL4 – a dynamic global vegetation model with managed land – Part 1: Model description. <i>Geoscientific Model Development</i> , 2018, 11, 1343-1375.	1.3	140
9	Phenopix: A R package for image-based vegetation phenology. <i>Agricultural and Forest Meteorology</i> , 2016, 220, 141-150.	1.9	136
10	The global long-term microwave Vegetation Optical Depth Climate Archive (VODCA). <i>Earth System Science Data</i> , 2020, 12, 177-196.	3.7	129
11	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021, 598, 468-472.	13.7	99
12	The response of ecosystem water-use efficiency to rising atmospheric CO ₂ concentrations: sensitivity and large-scale biogeochemical implications. <i>New Phytologist</i> , 2017, 213, 1654-1666.	3.5	92
13	Emergent relationships with respect to burned area in global satellite observations and fire-enabled vegetation models. <i>Biogeosciences</i> , 2019, 16, 57-76.	1.3	85
14	A novel bias correction methodology for climate impact simulations. <i>Earth System Dynamics</i> , 2016, 7, 71-88.	2.7	75
15	Widespread increasing vegetation sensitivity to soil moisture. <i>Nature Communications</i> , 2022, 13, .	5.8	69
16	Identifying environmental controls on vegetation greenness phenology through model-data integration. <i>Biogeosciences</i> , 2014, 11, 7025-7050.	1.3	68
17	Extreme fire events are related to previous-year surface moisture conditions in permafrost-underlain larch forests of Siberia. <i>Environmental Research Letters</i> , 2012, 7, 044021.	2.2	57
18	LPJmL4 – a dynamic global vegetation model with managed land – Part 2: Model evaluation. <i>Geoscientific Model Development</i> , 2018, 11, 1377-1403.	1.3	57

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19	Recent global and regional trends in burned area and their compensating environmental controls. <i>Environmental Research Communications</i> , 2019, 1, 051005.	0.9	55
20	Global ecosystems and fire: Multi-model assessment of fire-induced tree cover and carbon storage reduction. <i>Global Change Biology</i> , 2020, 26, 5027-5041.	4.2	55
21	A data-driven approach to identify controls on global fire activity from satellite and climate observations (SOFIA V1). <i>Geoscientific Model Development</i> , 2017, 10, 4443-4476.	1.3	51
22	Assessing the relationship between microwave vegetation optical depth and gross primary production. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 65, 79-91.	1.4	50
23	Human and climate drivers of global biomass burning variability. <i>Science of the Total Environment</i> , 2021, 779, 146361.	3.9	39
24	Large-scale variation in boreal and temperate forest carbon turnover rate related to climate. <i>Geophysical Research Letters</i> , 2016, 43, 4576-4585.	1.5	38
25	Earth Observation for agricultural drought monitoring in the Pannonian Basin (southeastern Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.4	38
26	A carbon sink-driven approach to estimate gross primary production from microwave satellite observations. <i>Remote Sensing of Environment</i> , 2019, 229, 100-113.	4.6	36
27	Understanding and modelling wildfire regimes: an ecological perspective. <i>Environmental Research Letters</i> , 2021, 16, 125008.	2.2	34
28	Contrasting and interacting changes in simulated spring and summer carbon cycle extremes in European ecosystems. <i>Environmental Research Letters</i> , 2017, 12, 075006.	2.2	32
29	Deriving Field Scale Soil Moisture from Satellite Observations and Ground Measurements in a Hilly Agricultural Region. <i>Remote Sensing</i> , 2019, 11, 2596.	1.8	31
30	Revisiting Global Vegetation Controls Using Multi-layer Soil Moisture. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092856.	1.5	30
31	Pan-Arctic Climate and Land Cover Trends Derived from Multi-Variate and Multi-Scale Analyses (1981-2012). <i>Remote Sensing</i> , 2014, 6, 2296-2316.	1.8	29
32	Constraining modelled global vegetation dynamics and carbon turnover using multiple satellite observations. <i>Scientific Reports</i> , 2019, 9, 18757.	1.6	28
33	Global quantification of the bidirectional dependency between soil moisture and vegetation productivity. <i>Agricultural and Forest Meteorology</i> , 2022, 313, 108735.	1.9	26
34	VODCA2GPP - a new, global, long-term (1988-2020) gross primary production dataset from microwave remote sensing. <i>Earth System Science Data</i> , 2022, 14, 1063-1085.	3.7	24
35	The importance of antecedent vegetation and drought conditions as global drivers of burnt area. <i>Biogeosciences</i> , 2021, 18, 3861-3879.	1.3	18
36	Improving the LPJm4-SPITFIRE vegetation-fire model for South America using satellite data. <i>Geoscientific Model Development</i> , 2019, 12, 5029-5054.	1.3	16

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37	Isotope labeling reveals contribution of newly fixed carbon to carbon storage and monoterpenes production under water deficit and carbon limitation. <i>Environmental and Experimental Botany</i> , 2019, 162, 333-344.	2.0	15
38	Detecting immediate wildfire impact on runoff in a poorly-gauged mountainous permafrost basin. <i>Hydrological Sciences Journal</i> , 2015, 60, 1225-1241.	1.2	13
39	CM2Mc-LPJmL v1.0: biophysical coupling of a process-based dynamic vegetation model with managed land to a general circulation model. <i>Geoscientific Model Development</i> , 2021, 14, 4117-4141.	1.3	13
40	Impact of temperature and water availability on microwave-derived gross primary production. <i>Biogeosciences</i> , 2021, 18, 3285-3308.	1.3	12
41	Does ASCAT observe the spring reactivation in temperate deciduous broadleaf forests?. <i>Remote Sensing of Environment</i> , 2020, 250, 112042.	4.6	11
42	Identification of land surface temperature and albedo trends in AVHRR Pathfinder data from 1982 to 2005 for northern Siberia. <i>International Journal of Remote Sensing</i> , 2013, 34, 4491-4507.	1.3	6
43	Novel Long-Term Global Indicators of Plant Productivity from Microwave Satellites. , 2019, , .		0