

Matthias Forkel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

2,585
citations

21
h-index

50
g-index

85
ext. papers

3,404
ext. citations

10.8
avg, IF

4.86
L-index

#	Paper	IF	Citations
46	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	10.5	1
45	Global quantification of the bidirectional dependency between soil moisture and vegetation productivity. <i>Agricultural and Forest Meteorology</i> , 2021 , 108735	5.8	1
44	Impact of temperature and water availability on microwave-derived gross primary production. <i>Biogeosciences</i> , 2021 , 18, 3285-3308	4.6	3
43	Revisiting Global Vegetation Controls Using Multi-Layer Soil Moisture. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092856	4.9	3
42	The importance of antecedent vegetation and drought conditions as global drivers of burnt area. <i>Biogeosciences</i> , 2021 , 18, 3861-3879	4.6	4
41	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	6.3	0
40	Human and climate drivers of global biomass burning variability. <i>Science of the Total Environment</i> , 2021 , 779, 146361	10.2	13
39	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021 , 598, 468-472	50.4	8
38	Does ASCAT observe the spring reactivation in temperate deciduous broadleaf forests?. <i>Remote Sensing of Environment</i> , 2020 , 250, 112042	13.2	5
37	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	11.4	17
36	The global long-term microwave Vegetation Optical Depth Climate Archive (VODCA). <i>Earth System Science Data</i> , 2020 , 12, 177-196	10.5	50
35	Earth Observation for agricultural drought monitoring in the Pannonian Basin (southeastern Europe): current state and future directions. <i>Regional Environmental Change</i> , 2020 , 20, 1	4.3	12
34	Improving the LPJmL4-SPITFIRE vegetation-fire model for South America using satellite data 2019 ,		1
33	Recent global and regional trends in burned area and their compensating environmental controls. <i>Environmental Research Communications</i> , 2019 , 1, 051005	3.1	31
32	A carbon sink-driven approach to estimate gross primary production from microwave satellite observations. <i>Remote Sensing of Environment</i> , 2019 , 229, 100-113	13.2	21
31	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	5.9	9
30	Emergent relationships with respect to burned area in global satellite observations and fire-enabled vegetation models. <i>Biogeosciences</i> , 2019 , 16, 57-76	4.6	54

29	Deriving Field Scale Soil Moisture from Satellite Observations and Ground Measurements in a Hilly Agricultural Region. <i>Remote Sensing</i> , 2019 , 11, 2596	5	19
28	Constraining modelled global vegetation dynamics and carbon turnover using multiple satellite observations. <i>Scientific Reports</i> , 2019 , 9, 18757	4.9	12
27	Improving the LPJmL4-SPITFIRE vegetation fire model for South America using satellite data. <i>Geoscientific Model Development</i> , 2019 , 12, 5029-5054	6.3	4
26	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	7.3	31
25	LPJmL4 1b dynamic global vegetation model with managed land [Part 1]: Model description. <i>Geoscientific Model Development</i> , 2018 , 11, 1343-1375	6.3	82
24	Widespread seasonal compensation effects of spring warming on northern plant productivity. <i>Nature</i> , 2018 , 562, 110-114	50.4	134
23	LPJmL4 1b dynamic global vegetation model with managed land [Part 2]: Model evaluation. <i>Geoscientific Model Development</i> , 2018 , 11, 1377-1403	6.3	38
22	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	6.3	37
21	LPJmL4 1b dynamic global vegetation model with managed land: Part II [Model evaluation 2017 ,		1
20	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	13.2	488
19	Contrasting and interacting changes in simulated spring and summer carbon cycle extremes in European ecosystems. <i>Environmental Research Letters</i> , 2017 , 12, 075006	6.2	26
18	The response of ecosystem water-use efficiency to rising atmospheric CO concentrations: sensitivity and large-scale biogeochemical implications. <i>New Phytologist</i> , 2017 , 213, 1654-1666	9.8	57
17	Enhanced seasonal CO2 exchange caused by amplified plant productivity in northern ecosystems. <i>Science</i> , 2016 , 351, 696-9	33.3	240
16	Phenopix: A R package for image-based vegetation phenology. <i>Agricultural and Forest Meteorology</i> , 2016 , 220, 141-150	5.8	93
15	Identifying required model structures to predict global fire activity from satellite and climate data 2016 ,		2
14	A novel bias correction methodology for climate impact simulations. <i>Earth System Dynamics</i> , 2016 , 7, 71-88	4.8	56
13	Large-scale variation in boreal and temperate forest carbon turnover rate related to climate. <i>Geophysical Research Letters</i> , 2016 , 43, 4576-4585	4.9	26
12	Codominant water control on global interannual variability and trends in land surface phenology and greenness. <i>Global Change Biology</i> , 2015 , 21, 3414-35	11.4	121

11	Detecting immediate wildfire impact on runoff in a poorly-gauged mountainous permafrost basin. <i>Hydrological Sciences Journal</i> , 2015 , 60, 1225-1241	3.5	10
10	Global covariation of carbon turnover times with climate in terrestrial ecosystems. <i>Nature</i> , 2014 , 514, 213-7	50.4	446
9	Identifying environmental controls on vegetation greenness phenology through model-data integration. <i>Biogeosciences</i> , 2014 , 11, 7025-7050	4.6	57
8	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	5	23
7	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	3.1	3
6	Trend Change Detection in NDVI Time Series: Effects of Inter-Annual Variability and Methodology. <i>Remote Sensing</i> , 2013 , 5, 2113-2144	5	275
5	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	6.2	39
4	Understanding and modelling wildfire regimes: an ecological perspective. <i>Environmental Research Letters</i> ,	6.2	5
3	A novel bias correction methodology for climate impact simulations		1
2	The Global Long-term Microwave Vegetation Optical Depth Climate Archive VODCA		2
1	Supplementary material to "The Global Long-term Microwave Vegetation Optical Depth Climate Archive VODCA"		2