

# Matthias Forkel

## List of Publications by Citations

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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	ESA CCI Soil Moisture for improved Earth system understanding: State-of-the art and future directions. <i>Remote Sensing of Environment</i> , <b>2017</b> , 203, 185-215	13.2	488
45	Global covariation of carbon turnover times with climate in terrestrial ecosystems. <i>Nature</i> , <b>2014</b> , 514, 213-7	50.4	446
44	Trend Change Detection in NDVI Time Series: Effects of Inter-Annual Variability and Methodology. <i>Remote Sensing</i> , <b>2013</b> , 5, 2113-2144	5	275
43	Enhanced seasonal CO <sub>2</sub> exchange caused by amplified plant productivity in northern ecosystems. <i>Science</i> , <b>2016</b> , 351, 696-9	33.3	240
42	Widespread seasonal compensation effects of spring warming on northern plant productivity. <i>Nature</i> , <b>2018</b> , 562, 110-114	50.4	134
41	Codominant water control on global interannual variability and trends in land surface phenology and greenness. <i>Global Change Biology</i> , <b>2015</b> , 21, 3414-35	11.4	121
40	Phenopix: A R package for image-based vegetation phenology. <i>Agricultural and Forest Meteorology</i> , <b>2016</b> , 220, 141-150	5.8	93
39	LPJmL4 <sup>1</sup> dynamic global vegetation model with managed land [Part 1]: Model description. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 1343-1375	6.3	82
38	The response of ecosystem water-use efficiency to rising atmospheric CO <sub>2</sub> concentrations: sensitivity and large-scale biogeochemical implications. <i>New Phytologist</i> , <b>2017</b> , 213, 1654-1666	9.8	57
37	Identifying environmental controls on vegetation greenness phenology through model-data integration. <i>Biogeosciences</i> , <b>2014</b> , 11, 7025-7050	4.6	57
36	A novel bias correction methodology for climate impact simulations. <i>Earth System Dynamics</i> , <b>2016</b> , 7, 71-88	4.8	56
35	Emergent relationships with respect to burned area in global satellite observations and fire-enabled vegetation models. <i>Biogeosciences</i> , <b>2019</b> , 16, 57-76	4.6	54
34	The global long-term microwave Vegetation Optical Depth Climate Archive (VODCA). <i>Earth System Science Data</i> , <b>2020</b> , 12, 177-196	10.5	50
33	Extreme fire events are related to previous-year surface moisture conditions in permafrost-underlain larch forests of Siberia. <i>Environmental Research Letters</i> , <b>2012</b> , 7, 044021	6.2	39
32	LPJmL4 <sup>1</sup> dynamic global vegetation model with managed land [Part 2]: Model evaluation. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 1377-1403	6.3	38
31	A data-driven approach to identify controls on global fire activity from satellite and climate observations (SOFIA V1). <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 4443-4476	6.3	37
30	Recent global and regional trends in burned area and their compensating environmental controls. <i>Environmental Research Communications</i> , <b>2019</b> , 1, 051005	3.1	31

29	Assessing the relationship between microwave vegetation optical depth and gross primary production. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2018</b> , 65, 79-91	7.3	31
28	Contrasting and interacting changes in simulated spring and summer carbon cycle extremes in European ecosystems. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 075006	6.2	26
27	Large-scale variation in boreal and temperate forest carbon turnover rate related to climate. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 4576-4585	4.9	26
26	Pan-Arctic Climate and Land Cover Trends Derived from Multi-Variate and Multi-Scale Analyses (1981-2012). <i>Remote Sensing</i> , <b>2014</b> , 6, 2296-2316	5	23
25	A carbon sink-driven approach to estimate gross primary production from microwave satellite observations. <i>Remote Sensing of Environment</i> , <b>2019</b> , 229, 100-113	13.2	21
24	Deriving Field Scale Soil Moisture from Satellite Observations and Ground Measurements in a Hilly Agricultural Region. <i>Remote Sensing</i> , <b>2019</b> , 11, 2596	5	19
23	Global ecosystems and fire: Multi-model assessment of fire-induced tree-cover and carbon storage reduction. <i>Global Change Biology</i> , <b>2020</b> , 26, 5027-5041	11.4	17
22	Human and climate drivers of global biomass burning variability. <i>Science of the Total Environment</i> , <b>2021</b> , 779, 146361	10.2	13
21	Earth Observation for agricultural drought monitoring in the Pannonian Basin (southeastern Europe): current state and future directions. <i>Regional Environmental Change</i> , <b>2020</b> , 20, 1	4.3	12
20	Constraining modelled global vegetation dynamics and carbon turnover using multiple satellite observations. <i>Scientific Reports</i> , <b>2019</b> , 9, 18757	4.9	12
19	Detecting immediate wildfire impact on runoff in a poorly-gauged mountainous permafrost basin. <i>Hydrological Sciences Journal</i> , <b>2015</b> , 60, 1225-1241	3.5	10
18	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> , <b>2019</b> , 162, 333-344	5.9	9
17	The three major axes of terrestrial ecosystem function. <i>Nature</i> , <b>2021</b> , 598, 468-472	50.4	8
16	Does ASCAT observe the spring reactivation in temperate deciduous broadleaf forests?. <i>Remote Sensing of Environment</i> , <b>2020</b> , 250, 112042	13.2	5
15	Understanding and modelling wildfire regimes: an ecological perspective. <i>Environmental Research Letters</i> ,	6.2	5
14	The importance of antecedent vegetation and drought conditions as global drivers of burnt area. <i>Biogeosciences</i> , <b>2021</b> , 18, 3861-3879	4.6	4
13	Improving the LPJm4-SPITFIRE vegetation fire model for South America using satellite data. <i>Geoscientific Model Development</i> , <b>2019</b> , 12, 5029-5054	6.3	4
12	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> , <b>2013</b> , 34, 4491-4507	3.1	3

11	Impact of temperature and water availability on microwave-derived gross primary production. <i>Biogeosciences</i> , <b>2021</b> , 18, 3285-3308	4.6	3
10	Revisiting Global Vegetation Controls Using Multi-Layer Soil Moisture. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092856	4.9	3
9	The Global Long-term Microwave Vegetation Optical Depth Climate Archive VODCA		2
8	Supplementary material to "The Global Long-term Microwave Vegetation Optical Depth Climate Archive VODCA"		2
7	Identifying required model structures to predict global fire activity from satellite and climate data <b>2016</b> ,		2
6	Improving the LPJmL4-SPITFIRE vegetation-fire model for South America using satellite data <b>2019</b> ,		1
5	LPJmL4 a dynamic global vegetation model with managed land: Part II Model evaluation <b>2017</b> ,		1
4	Global quantification of the bidirectional dependency between soil moisture and vegetation productivity. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 108735	5.8	1
3	A novel bias correction methodology for climate impact simulations		1
2	VODCA2GPP a new, global, long-term (1988-2020) gross primary production dataset from microwave remote sensing. <i>Earth System Science Data</i> , <b>2022</b> , 14, 1063-1085	10.5	1
1	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> , <b>2021</b> , 14, 4117-4141	6.3	0