

Koen Hufkens

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

3,994
citations

172207

29
h-index

223531

46
g-index

47
all docs

47
docs citations

47
times ranked

6495
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital repeat photography for phenological research in forest ecosystems. <i>Agricultural and Forest Meteorology</i> , 2012, 152, 159-177.	1.9	446
2	Tracking vegetation phenology across diverse North American biomes using PhenoCam imagery. <i>Scientific Data</i> , 2018, 5, 180028.	2.4	304
3	Above-ground biomass and structure of 260 African tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120295.	1.8	264
4	Ecosystem warming extends vegetation activity but heightens vulnerability to cold temperatures. <i>Nature</i> , 2018, 560, 368-371.	13.7	249
5	Terrestrial biosphere model performance for interannual variability of land-atmosphere CO ₂ exchange. <i>Global Change Biology</i> , 2012, 18, 1971-1987.	4.2	232
6	Linking near-surface and satellite remote sensing measurements of deciduous broadleaf forest phenology. <i>Remote Sensing of Environment</i> , 2012, 117, 307-321.	4.6	230
7	Ecological impacts of a widespread frost event following early spring leaf-out. <i>Global Change Biology</i> , 2012, 18, 2365-2377.	4.2	210
8	Productivity of North American grasslands is increased under future climate scenarios despite rising aridity. <i>Nature Climate Change</i> , 2016, 6, 710-714.	8.1	153
9	Satellite-observed pantropical carbon dynamics. <i>Nature Plants</i> , 2019, 5, 944-951.	4.7	141
10	Using data from Landsat, MODIS, VIIRS and PhenoCams to monitor the phenology of California oak/grass savanna and open grassland across spatial scales. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 311-325.	1.9	131
11	Greenness indices from digital cameras predict the timing and seasonal dynamics of canopy-scale photosynthesis. <i>Ecological Applications</i> , 2015, 25, 99-115.	1.8	129
12	An integrated phenology modelling framework in R. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1276-1285.	2.2	126
13	Conventional tree height-diameter relationships significantly overestimate aboveground carbon stocks in the Central Congo Basin. <i>Nature Communications</i> , 2013, 4, 2269.	5.8	103
14	Intercomparison of phenological transition dates derived from the PhenoCam Dataset V1.0 and MODIS satellite remote sensing. <i>Scientific Reports</i> , 2018, 8, 5679.	1.6	99
15	Ecotones in vegetation ecology: methodologies and definitions revisited. <i>Ecological Research</i> , 2009, 24, 977-986.	0.7	89
16	Seasonal patterns of foliar reflectance in relation to photosynthetic capacity and color index in two co-occurring tree species, <i>Quercus rubra</i> and <i>Betula papyrifera</i> . <i>Agricultural and Forest Meteorology</i> , 2012, 160, 60-68.	1.9	83
17	A tale of two springs: using recent climate anomalies to characterize the sensitivity of temperate forest phenology to climate change. <i>Environmental Research Letters</i> , 2014, 9, 054006.	2.2	82
18	Tracking vegetation phenology across diverse biomes using Version 2.0 of the PhenoCam Dataset. <i>Scientific Data</i> , 2019, 6, 222.	2.4	82

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19	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , 2018, 27, 1366-1383.	2.7	78
20	Monitoring crop phenology using a smartphone based near-surface remote sensing approach. <i>Agricultural and Forest Meteorology</i> , 2019, 265, 327-337.	1.9	75
21	Limitations to winter and spring photosynthesis of a Rocky Mountain subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 241-255.	1.9	72
22	NDVI derived from near-infrared-enabled digital cameras: Applicability across different plant functional types. <i>Agricultural and Forest Meteorology</i> , 2018, 249, 275-285.	1.9	68
23	Calibrating vegetation phenology from Sentinel-2 using eddy covariance, PhenoCam, and PEP725 networks across Europe. <i>Remote Sensing of Environment</i> , 2021, 260, 112456.	4.6	56
24	On quantifying the apparent temperature sensitivity of plant phenology. <i>New Phytologist</i> , 2020, 225, 1033-1040.	3.5	52
25	Season Spotter: Using Citizen Science to Validate and Scale Plant Phenology from Near-Surface Remote Sensing. <i>Remote Sensing</i> , 2016, 8, 726.	1.8	49
26	Weather dataset choice introduces uncertainty to estimates of crop yield responses to climate variability and change. <i>Environmental Research Letters</i> , 2019, 14, 124089.	2.2	44
27	Model performance of tree height-diameter relationships in the central Congo Basin. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	43
28	Functional community structure of African monodominant <i>Gilbertiodendron dewevrei</i> forest influenced by local environmental filtering. <i>Ecology and Evolution</i> , 2017, 7, 295-304.	0.8	37
29	Testing Hopkins's™ Bioclimatic Law with PhenoCam data. <i>Applications in Plant Sciences</i> , 2019, 7, e01228.	0.8	31
30	Asymmetric responses of ecosystem productivity to rainfall anomalies vary inversely with mean annual rainfall over the conterminous United States. <i>Global Change Biology</i> , 2020, 26, 6959-6973.	4.2	31
31	Seasonal variation in the canopy color of temperate evergreen conifer forests. <i>New Phytologist</i> , 2021, 229, 2586-2600.	3.5	30
32	Later springs green-up faster: the relation between onset and completion of green-up in deciduous forests of North America. <i>International Journal of Biometeorology</i> , 2018, 62, 1645-1655.	1.3	25
33	Aboveground vs. Belowground Carbon Stocks in African Tropical Lowland Rainforest: Drivers and Implications. <i>PLoS ONE</i> , 2015, 10, e0143209.	1.1	25
34	Developmental changes in the reflectance spectra of temperate deciduous tree leaves and implications for thermal emissivity and leaf temperature. <i>New Phytologist</i> , 2021, 229, 791-804.	3.5	19
35	Integrating camera imagery, crowdsourcing, and deep learning to improve high-frequency automated monitoring of snow at continental-to-global scales. <i>PLoS ONE</i> , 2018, 13, e0209649.	1.1	15
36	Assimilating phenology datasets automatically across ICOS ecosystem stations. <i>International Agrophysics</i> , 2018, 32, 677-687.	0.7	14

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37	Large-sized rare tree species contribute disproportionately to functional diversity in resource acquisition in African tropical forest. <i>Ecology and Evolution</i> , 2019, 9, 4349-4361.	0.8	13
38	Improving the Performance of Index Insurance Using Crop Models and Phenological Monitoring. <i>Remote Sensing</i> , 2021, 13, 924.	1.8	13
39	Historical Aerial Surveys Map Long-Term Changes of Forest Cover and Structure in the Central Congo Basin. <i>Remote Sensing</i> , 2020, 12, 638.	1.8	11
40	Accuracy assessment of contextual classification results for vegetation mapping. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 15, 7-15.	1.4	10
41	Wood anatomy variability under contrasted environmental conditions of common deciduous and evergreen species from central African forests. <i>Trees - Structure and Function</i> , 2019, 33, 893-909.	0.9	10
42	Validation of the sigmoid wave curve fitting algorithm on a forest-tundra ecotone in the Northwest Territories, Canada. <i>Ecological Informatics</i> , 2009, 4, 1-7.	2.3	6
43	Habitat reporting of a heathland site: Classification probabilities as additional information, a case study. <i>Ecological Informatics</i> , 2010, 5, 248-255.	2.3	5
44	The aeroecology of atmospheric convergence zones: the case of pallid swifts. <i>Oikos</i> , 2022, 2022, .	1.2	4