Koen Hufkens

List of Publications by Year in descending order

44 papers	3,994 citations	172457 29 h-index	223800 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. Agricultural and Forest Meteorology, 2012, 152, 159-177.	4.8	446
2	Tracking vegetation phenology across diverse North American biomes using PhenoCam imagery. Scientific Data, 2018, 5, 180028.	5.3	304
3	Above-ground biomass and structure of 260 African tropical forests. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120295.	4.0	264
4	Ecosystem warming extends vegetation activity but heightens vulnerability to cold temperatures. Nature, 2018, 560, 368-371.	27.8	249
5	Terrestrial biosphere model performance for interâ€annual variability of landâ€atmosphere <scp><scp>CO₂</scp></scp> exchange. Global Change Biology, 2012, 18, 1971-1987.	9.5	232
6	Linking near-surface and satellite remote sensing measurements of deciduous broadleaf forest phenology. Remote Sensing of Environment, 2012, 117, 307-321.	11.0	230
7	Ecological impacts of a widespread frost event following early spring leafâ€out. Global Change Biology, 2012, 18, 2365-2377.	9.5	210
8	Productivity of North American grasslands is increased under future climate scenarios despite rising aridity. Nature Climate Change, 2016, 6, 710-714.	18.8	153
9	Satellite-observed pantropical carbon dynamics. Nature Plants, 2019, 5, 944-951.	9.3	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. Agricultural and Forest Meteorology, 2017, 237-238, 311-325.	4.8	131
11	Greenness indices from digital cameras predict the timing and seasonal dynamics of canopyâ€scale photosynthesis. Ecological Applications, 2015, 25, 99-115.	3.8	129
12	An integrated phenology modelling framework in <scp>r</scp>. Methods in Ecology and Evolution, 2018, 9, 1276-1285.	5.2	126
13	Conventional tree heightâ€“diameter relationships significantly overestimate aboveground carbon stocks in the Central Congo Basin. Nature Communications, 2013, 4, 2269.	12.8	103
14	Intercomparison of phenological transition dates derived from the PhenoCam Dataset V1.0 and MODIS satellite remote sensing. Scientific Reports, 2018, 8, 5679.	3.3	99
15	Ecotones in vegetation ecology: methodologies and definitions revisited. Ecological Research, 2009, 24, 977-986.	1.5	89
16	Seasonal patterns of foliar reflectance in relation to photosynthetic capacity and color index in two co-occurring tree species, Quercus rubra and Betula papyrifera. Agricultural and Forest Meteorology, 2012, 160, 60-68.	4.8	83
17	A tale of two springs: using recent climate anomalies to characterize the sensitivity of temperate forest phenology to climate change. Environmental Research Letters, 2014, 9, 054006.	5.2	82
18	Tracking vegetation phenology across diverse biomes using Version 2.0 of the PhenoCam Dataset. Scientific Data, 2019, 6, 222.	5.3	82

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19	Panâ€tropical prediction of forest structure from the largest trees. Global Ecology and Biogeography, 2018, 27, 1366-1383.	5.8	78
20	Monitoring crop phenology using a smartphone based near-surface remote sensing approach. Agricultural and Forest Meteorology, 2019, 265, 327-337.	4.8	75
21	Limitations to winter and spring photosynthesis of a Rocky Mountain subalpine forest. Agricultural and Forest Meteorology, 2018, 252, 241-255.	4.8	72
22	NDVI derived from near-infrared-enabled digital cameras: Applicability across different plant functional types. Agricultural and Forest Meteorology, 2018, 249, 275-285.	4.8	68
23	Calibrating vegetation phenology from Sentinel-2 using eddy covariance, PhenoCam, and PEP725 networks across Europe. Remote Sensing of Environment, 2021, 260, 112456.	11.0	56
24	On quantifying the apparent temperature sensitivity of plant phenology. New Phytologist, 2020, 225, 1033-1040.	7.3	52
25	Season Spotter: Using Citizen Science to Validate and Scale Plant Phenology from Near-Surface Remote Sensing. Remote Sensing, 2016, 8, 726.	4.0	49
26	Weather dataset choice introduces uncertainty to estimates of crop yield responses to climate variability and change. Environmental Research Letters, 2019, 14, 124089.	5.2	44
27	Model performance of tree height-diameter relationships in the central Congo Basin. Annals of Forest Science, 2017, 74, 1.	2.0	43
28	Functional community structure of African monodominant Gilbertiodendron dewevrei forest influenced by local environmental filtering. Ecology and Evolution, 2017, 7, 295-304.	1.9	37
29	Testing Hopkinsâ€™ Bioclimatic Law with PhenoCam data. Applications in Plant Sciences, 2019, 7, e01228.	2.1	31
30	Asymmetric responses of ecosystem productivity to rainfall anomalies vary inversely with mean annual rainfall over the conterminous United States. Global Change Biology, 2020, 26, 6959-6973.	9.5	31
31	Seasonal variation in the canopy color of temperate evergreen conifer forests. New Phytologist, 2021, 229, 2586-2600.	7.3	30
32	Later springs green-up faster: the relation between onset and completion of green-up in deciduous forests of North America. International Journal of Biometeorology, 2018, 62, 1645-1655.	3.0	25
33	Aboveground vs. Belowground Carbon Stocks in African Tropical Lowland Rainforest: Drivers and Implications. PLoS ONE, 2015, 10, e0143209.	2.5	25
34	Developmental changes in the reflectance spectra of temperate deciduous tree leaves and implications for thermal emissivity and leaf temperature. New Phytologist, 2021, 229, 791-804.	7.3	19
35	Integrating camera imagery, crowdsourcing, and deep learning to improve high-frequency automated monitoring of snow at continental-to-global scales. PLoS ONE, 2018, 13, e0209649.	2.5	15
36	Assimilating phenology datasets automatically across ICOS ecosystem stations. International Agrophysics, 2018, 32, 677-687.	1.7	14

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37	Largeâ€sized rare tree species contribute disproportionately to functional diversity in resource acquisition in African tropical forest. Ecology and Evolution, 2019, 9, 4349-4361.	1.9	13
38	Improving the Performance of Index Insurance Using Crop Models and Phenological Monitoring. Remote Sensing, 2021, 13, 924.	4.0	13
39	Historical Aerial Surveys Map Long-Term Changes of Forest Cover and Structure in the Central Congo Basin. Remote Sensing, 2020, 12, 638.	4.0	11
40	Accuracy assessment of contextual classification results for vegetation mapping. International Journal of Applied Earth Observation and Geoinformation, 2012, 15, 7-15.	2.8	10
41	Wood anatomy variability under contrasted environmental conditions of common deciduous and evergreen species from central African forests. Trees - Structure and Function, 2019, 33, 893-909.	1.9	10
42	Validation of the sigmoid wave curve fitting algorithm on a forest-tundra ecotone in the Northwest Territories, Canada. Ecological Informatics, 2009, 4, 1-7.	5.2	6
43	Habitat reporting of a heathland site: Classification probabilities as additional information, a case study. Ecological Informatics, 2010, 5, 248-255.	5.2	5
44	The aeroecology of atmospheric convergence zones: the case of pallid swifts. Oikos, 2022, 2022, .	2.7	4