

Anton Vrieling

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,834
citations

201575

27
h-index

175177

52
g-index

60
all docs

60
docs citations

60
times ranked

4272
citing authors

#	ARTICLE	IF	CITATIONS
1	Satellite remote sensing for water erosion assessment: A review. <i>Catena</i> , 2006, 65, 2-18.	2.2	308
2	Assessing drought probability for agricultural areas in Africa with coarse resolution remote sensing imagery. <i>Remote Sensing of Environment</i> , 2011, 115, 343-352.	4.6	259
3	Vegetation phenology from Sentinel-2 and field cameras for a Dutch barrier island. <i>Remote Sensing of Environment</i> , 2018, 215, 517-529.	4.6	153
4	Length of Growing Period over Africa: Variability and Trends from 30 Years of NDVI Time Series. <i>Remote Sensing</i> , 2013, 5, 982-1000.	1.8	149
5	Impacts of extreme weather on wheat and maize in France: evaluating regional crop simulations against observed data. <i>Climatic Change</i> , 2012, 113, 751-765.	1.7	126
6	Preparing for an interdisciplinary future: A perspective from early-career researchers. <i>Futures</i> , 2013, 53, 22-32.	1.4	123
7	The response of African land surface phenology to large scale climate oscillations. <i>Remote Sensing of Environment</i> , 2010, 114, 2286-2296.	4.6	120
8	The Potential and Uptake of Remote Sensing in Insurance: A Review. <i>Remote Sensing</i> , 2014, 6, 10888-10912.	1.8	111
9	Satellite-based estimation of rainfall erosivity for Africa. <i>Journal of Hydrology</i> , 2010, 395, 235-241.	2.3	102
10	Phenology of short vegetation cycles in a Kenyan rangeland from PlanetScope and Sentinel-2. <i>Remote Sensing of Environment</i> , 2020, 248, 112004.	4.6	92
11	Timing of erosion and satellite data: A multi-resolution approach to soil erosion risk mapping. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2008, 10, 267-281.	1.4	88
12	Variability of African farming systems from phenological analysis of NDVI time series. <i>Climatic Change</i> , 2011, 109, 455-477.	1.7	82
13	Comparing land surface phenology of major European crops as derived from SAR and multispectral data of Sentinel-1 and -2. <i>Remote Sensing of Environment</i> , 2021, 253, 112232.	4.6	77
14	A comparison of data sources for creating a long-term time series of daily gridded solar radiation for Europe. <i>Solar Energy</i> , 2014, 99, 152-171.	2.9	69
15	Migration and environment in Ghana: a cross-district analysis of human mobility and vegetation dynamics. <i>Environment and Urbanization</i> , 2010, 22, 107-123.	1.5	68
16	Prediction of drought-induced reduction of agricultural productivity in Chile from MODIS, rainfall estimates, and climate oscillation indices. <i>Remote Sensing of Environment</i> , 2018, 219, 15-30.	4.6	64
17	Towards large-scale monitoring of soil erosion in Africa: Accounting for the dynamics of rainfall erosivity. <i>Global and Planetary Change</i> , 2014, 115, 33-43.	1.6	61
18	Mapping leaf chlorophyll content from Sentinel-2 and RapidEye data in spruce stands using the invertible forest reflectance model. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 79, 58-70.	1.4	57

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19	Spatial evaluation of soil erosion risk in the West Usambara Mountains, Tanzania. <i>Land Degradation and Development</i> , 2006, 17, 301-319.	1.8	52
20	Evaluation of MODIS Spectral Indices for Monitoring Hydrological Dynamics of a Small, Seasonally-Flooded Wetland in Southern Spain. <i>Wetlands</i> , 2015, 35, 851-864.	0.7	45
21	Early assessment of seasonal forage availability for mitigating the impact of drought on East African pastoralists. <i>Remote Sensing of Environment</i> , 2016, 174, 44-55.	4.6	45
22	Analysis of Sentinel-2 and RapidEye for Retrieval of Leaf Area Index in a Saltmarsh Using a Radiative Transfer Model. <i>Remote Sensing</i> , 2019, 11, 671.	1.8	44
23	Historical extension of operational NDVI products for livestock insurance in Kenya. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014, 28, 238-251.	1.4	41
24	Rapid mapping and impact estimation of illegal charcoal production in southern Somalia based on WorldView-1 imagery. <i>Energy for Sustainable Development</i> , 2015, 25, 40-49.	2.0	40
25	Predictive Factors and Risk Mapping for Rift Valley Fever Epidemics in Kenya. <i>PLoS ONE</i> , 2016, 11, e0144570.	1.1	38
26	Spatially detailed retrievals of spring phenology from single-season high-resolution image time series. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 59, 19-30.	1.4	32
27	Does the design matter? Comparing satellite-based indices for insuring pastoralists against drought. <i>Ecological Economics</i> , 2019, 162, 59-73.	2.9	29
28	Spatial and spatiotemporal clustering methods for detecting elephant poaching hotspots. <i>Ecological Modelling</i> , 2015, 297, 180-186.	1.2	28
29	Calibration of solar radiation models for Europe using Meteosat Second Generation and weather station data. <i>Agricultural and Forest Meteorology</i> , 2013, 176, 1-9.	1.9	25
30	Satellite- versus temperature-derived green wave indices for predicting the timing of spring migration of avian herbivores. <i>Ecological Indicators</i> , 2015, 58, 322-331.	2.6	24
31	The El Niño "La Niña" cycle and recent trends in supply and demand of net primary productivity in African drylands. <i>Climatic Change</i> , 2016, 138, 111-125.	1.7	22
32	Monitoring the dynamics of surface water fraction from MODIS time series in a Mediterranean environment. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 66, 135-145.	1.4	22
33	A new dense 18-year time series of surface water fraction estimates from MODIS for the Mediterranean region. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3037-3056.	1.9	21
34	An auto-calibration procedure for empirical solar radiation models. <i>Environmental Modelling and Software</i> , 2013, 49, 118-128.	1.9	19
35	Exploring Spatiotemporal Phenological Patterns and Trajectories Using Self-Organizing Maps. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 1914-1921.	2.7	18
36	Recent trends in agricultural production of Africa based on AVHRR NDVI time series. , 2008, , .		14

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37	Insuring forage through satellites: testing alternative indices against grassland production estimates for France. <i>International Journal of Remote Sensing</i> , 2017, 38, 1912-1939.	1.3	14
38	Annual Green Water Resources and Vegetation Resilience Indicators: Definitions, Mutual Relationships, and Future Climate Projections. <i>Remote Sensing</i> , 2019, 11, 2708.	1.8	14
39	Elephant poaching risk assessed using spatial and non-spatial Bayesian models. <i>Ecological Modelling</i> , 2016, 338, 60-68.	1.2	13
40	Evaluation of the Standardized Precipitation Index as an early predictor of seasonal vegetation production anomalies in the Sahel. <i>Remote Sensing Letters</i> , 2017, 8, 301-310.	0.6	13
41	Exploring improvements to the design of an operational seasonal forage scarcity index from NDVI time series for livestock insurance in East Africa. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 82, 101885.	1.4	12
42	Winter cover crops in Dutch maize fields: Variability in quality and its drivers assessed from multi-temporal Sentinel-2 imagery. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 91, 102139.	1.4	12
43	A Vision for Transdisciplinarity in Future Earth: Perspectives from Young Researchers. <i>Journal of Agriculture, Food Systems, and Community Development</i> , 0, , 249-260.	2.4	11
44	Mapping Geospatial Processes Affecting the Environmental Fate of Agricultural Pesticides in Africa. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3523.	1.2	10
45	Earth observation for drought risk financing in pastoral systems of sub-Saharan Africa. <i>Current Opinion in Environmental Sustainability</i> , 2021, 48, 44-52.	3.1	10
46	Satellite support to insure farmers against extreme droughts. <i>Nature Food</i> , 2021, 2, 215-217.	6.2	10
47	Understanding Intra-Annual Dynamics of Ecosystem Services Using Satellite Image Time Series. <i>Remote Sensing</i> , 2020, 12, 710.	1.8	9
48	Evaluation of a new 18-year MODIS-derived surface water fraction dataset for constructing Mediterranean wetland open surface water dynamics. <i>Journal of Hydrology</i> , 2020, 587, 124956.	2.3	6
49	Assessing trends and seasonal changes in elephant poaching risk at the small area level using spatio-temporal Bayesian modeling. <i>International Journal of Geographical Information Science</i> , 2018, 32, 622-636.	2.2	5
50	Satellite-based modelling of potential tsetse (<i>Glossina pallidipes</i>) breeding and foraging sites using teneral and non-teneral fly occurrence data. <i>Parasites and Vectors</i> , 2021, 14, 506.	1.0	5
51	Long-term assessment of ecosystem services at ecological restoration sites using Landsat time series. <i>PLoS ONE</i> , 2021, 16, e0243020.	1.1	4
52	A global assessment of PT-JPL soil evaporation in agroecosystems with optical, thermal, and microwave satellite data. <i>Agricultural and Forest Meteorology</i> , 2021, 306, 108455.	1.9	4
53	Constructing boundary-consistent population time series for the municipalities of the Netherlands, 1988-2011. <i>Population Studies</i> , 2013, 67, 195-208.	1.1	3
54	Rapid cloud-based temporal compositing of Sentinel-1 radar imagery for epibenthic shellfish inventory. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 250, 107115.	0.9	3

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55	Mapping saffron fields and their ages with Sentinel-2 time series in north-east Iran. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102398.	1.4	3
56	Identification of temporary livestock enclosures in Kenya from multi-temporal PlanetScope imagery. Remote Sensing of Environment, 2022, 279, 113110.	4.6	3
57	Camera traps enable the estimation of herbaceous aboveground net primary production (<sc>ANPP</sc>) in an African savanna at high temporal resolution. Remote Sensing in Ecology and Conservation, 2022, 8, 583-600.	2.2	2
58	Determining optimal seasonal integration times of NDVI series for index-based livestock insurance in East Africa. , 2015, , .		0
59	Peer review report 2 on "Spatio-temporal variability of erosivity determined by highly resolved and adjusted radar rain data (RADOLAN)" Agricultural and Forest Meteorology, 2017, 233, 2-4.	1.9	0