Lars R Eklundh

List of Publications by Year
in descending order

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91	9,639	61857	51492
papers	citations	43 h-index	86 g-index

97	97	97	8383
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A simple method for reconstructing a high-quality NDVI time-series data set based on the Savitzkyâ€“Golay filter. Remote Sensing of Environment, 2004, 91, 332-344.	4.6	1,679
2	TIMESATâ€”a program for analyzing time-series of satellite sensor data. Computers and Geosciences, 2004, 30, 833-845.	2.0	1,459
3	Seasonality extraction by function fitting to time-series of satellite sensor data. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 1824-1832.	2.7	983
4	A recent greening of the Sahelâ€”trends, patterns and potential causes. Journal of Arid Environments, 2005, 63, 556-566.	1.2	441
5	AVHRR derived phenological change in the Sahel and Soudan, Africa, 1982â€“2005. Remote Sensing of Environment, 2007, 108, 385-392.	4.6	282
6	Continental-scale land surface phenology from harmonized Landsat 8 and Sentinel-2 imagery. Remote Sensing of Environment, 2020, 240, 111685.	4.6	226
7	Detecting changes in vegetation trends using time series segmentation. Remote Sensing of Environment, 2015, 156, 182-195.	4.6	219
8	Vegetation index trends for the African Sahel 1982-1999. Geophysical Research Letters, 2003, 30, .	1.5	208
9	Estimation of diurnal air temperature using MSG SEVIRI data in West Africa. Remote Sensing of Environment, 2007, 110, 262-274.	4.6	200
10	Precipitation controls Sahel greening trend. Geophysical Research Letters, 2005, 32, .	1.5	195
11	Performance of Smoothing Methods for Reconstructing NDVI Time-Series and Estimating Vegetation Phenology from MODIS Data. Remote Sensing, 2017, 9, 1271.	1.8	152
12	Impact of understory vegetation on forest canopy reflectance and remotely sensed LAI estimates. Remote Sensing of Environment, 2006, 103, 408-418.	4.6	147
13	Annual changes in MODIS vegetation indices of Swedish coniferous forests in relation to snow dynamics and tree phenology. Remote Sensing of Environment, 2010, 114, 2719-2730.	4.6	131
14	Challenges for drought mitigation in Africa: The potential use of geospatial data and drought information systems. Applied Geography, 2012, 34, 471-486.	1.7	127
15	Investigating relationships between Landsat ETM+ sensor data and leaf area index in a boreal conifer forest. Remote Sensing of Environment, 2001, 78, 239-251.	4.6	118
16	Mapping insect defoliation in Scots pine with MODIS time-series data. Remote Sensing of Environment, 2009, 113, 1566-1573.	4.6	118
17	A physically based vegetation index for improved monitoring of plant phenology. Remote Sensing of Environment, 2014, 152, 512-525.	4.6	118
18	A comparative analysis of standardised and unstandardised Principal Components Analysis in remote sensing. International Journal of Remote Sensing, 1993, 14, 1359-1370.	1.3	114

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19	Exploring the potential of MODIS EVI for modeling gross primary production across African ecosystems. Remote Sensing of Environment, 2011, 115, 1081-1089.	4.6	113
20	Global maps of soil temperature. Global Change Biology, 2022, 28, 3110-3144.	4.2	113
21	Challenges and Best Practices for Deriving Temperature Data from an Uncalibrated UAV Thermal Infrared Camera. Remote Sensing, 2019, 11, 567.	1.8	111
22	Automated mapping of vegetation trends with polynomials using NDVI imagery over the Sahel. Remote Sensing of Environment, 2014, 141, 79-89.	4.6	109
23	A Method for Robust Estimation of Vegetation Seasonality from Landsat and Sentinel-2 Time Series Data. Remote Sensing, 2018, 10, 635.	1.8	95
24	A groundâ€validated NDVI dataset for monitoring vegetation dynamics and mapping phenology in Fennoscandia and the Kola peninsula. International Journal of Remote Sensing, 2007, 28, 4311-4330.	1.3	87
25	Estimating relations between AVHRR NDVI and rainfall in East Africa at 10-day and monthly time scales. International Journal of Remote Sensing, 1998, 19, 563-570.	1.3	86
26	Net primary production and light use efficiency in a mixed coniferous forest in Sweden. Plant, Cell and Environment, 2005, 28, 412-423.	2.8	85
27	Ground-Based Optical Measurements at European Flux Sites: A Review of Methods, Instruments and Current Controversies. Sensors, 2011, 11, 7954-7981.	2.1	76
28	Estimating northern peatland CO2 exchange from MODIS time series data. Remote Sensing of Environment, 2010, 114, 1178-1189.	4.6	69
29	A simple method for reconstructing a high-quality NDVI time-series data set based on the Savitzky?Golay filter. Remote Sensing of Environment, 2004, 91, 332-332.	4.6	67
30	Ground-Based Optical Measurements at European Flux Sites: A Review of Methods, Instruments and Current Controversies. Sensors, 2011, 11, 7954-7981.	2.1	67
31	An Optical Sensor Network for Vegetation Phenology Monitoring and Satellite Data Calibration. Sensors, 2011, 11, 7678-7709.	2.1	66
32	Estimating LAI in deciduous forest stands. Agricultural and Forest Meteorology, 2005, 129, 27-37.	1.9	60
33	Estimation of absorbed PAR across Scandinavia from satellite measurements. Part II: Modeling and evaluating the fractional absorption. Remote Sensing of Environment, 2007, 110, 240-251.	4.6	59
34	Calibrating vegetation phenology from Sentinel-2 using eddy covariance, PhenoCam, and PEP725 networks across Europe. Remote Sensing of Environment, 2021, 260, 112456.	4.6	56
35	Climate data induced uncertainty in model-based estimations of terrestrial primary productivity. Environmental Research Letters, 2017, 12, 064013.	2.2	55
36	Investigating the use of Landsat thematic mapper data for estimation of forest leaf area index in southern Sweden. Canadian Journal of Remote Sensing, 2003, 29, 349-362.	1.1	51

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37	The supply and demand of net primary production in the Sahel. Environmental Research Letters, 2014, 9, 094003.	2.2	50
38	Near real-time monitoring of insect induced defoliation in subalpine birch forests with MODIS derived NDVI. Remote Sensing of Environment, 2016, 181, 42-53.	4.6	49
39	Disentangling remotely-sensed plant phenology and snow seasonality at northern Europe using MODIS and the plant phenology index. Remote Sensing of Environment, 2017, 198, 203-212.	4.6	48
40	EUROSPEC: at the interface between remote-sensing and ecosystem CO₂ flux measurements in Europe. Biogeosciences, 2015, 12, 6103-6124.	1.3	47
41	Mapping fractional forest cover across the highlands of mainland Southeast Asia using MODIS data and regression tree modelling. International Journal of Remote Sensing, 2007, 28, 23-46.	1.3	46
42	Estimating net primary production for Scandinavian forests using data from Terra/MODIS. Advances in Space Research, 2007, 39, 125-130.	1.2	46
43	New satellite-based estimates show significant trends in spring phenology and complex sensitivities to temperature and precipitation at northern European latitudes. International Journal of Biometeorology, 2019, 63, 763-775.	1.3	45
44	Ecological applications of physically based remote sensing methods. Scandinavian Journal of Forest Research, 2010, 25, 325-339.	0.5	43
45	Modeling GPP in the Nordic forest landscape with MODIS time series dataâ€"Comparison with the MODIS GPP product. Remote Sensing of Environment, 2012, 126, 136-147.	4.6	40
46	Spatio-temporal patterns in vegetation start of season across the island of Ireland using the MERIS Global Vegetation Index. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 68, 79-94.	4.9	40
47	TIMESAT: A Software Package for Time-Series Processing and Assessment of Vegetation Dynamics. Remote Sensing and Digital Image Processing, 2015, , 141-158.	0.7	39
48	Estimation of absorbed PAR across Scandinavia from satellite measurements. Remote Sensing of Environment, 2007, 110, 252-261.	4.6	37
49	A new invasive insect in Sweden â€“ Physokermes inopinatus: Tracing forest damage with satellite based remote sensing. Forest Ecology and Management, 2012, 285, 29-37.	1.4	37
50	Assessing Forest Phenology: A Multi-Scale Comparison of Near-Surface (UAV, Spectral Reflectance) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	37
51	Regionalization and spatial estimation of ethiopian mean annual rainfall. International Journal of Climatology, 1990, 10, 473-494.	1.5	35
52	Rapid generation of Digital Elevation Models from topographic maps. International Journal of Geographical Information Science, 1995, 9, 329-340.	2.2	35
53	Improving the estimation of noise from NOAA AVHRR NDVI for Africa using geostatistics. International Journal of Remote Sensing, 2001, 22, 1067-1080.	1.3	35
54	Dynamic response of NDVI to soil moisture variations during different hydrological regimes in the Sahel region. International Journal of Remote Sensing, 2017, 38, 5408-5429.	1.3	35

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55	Broadâ€scale increase in NPP quantified for the African Sahel, 1982â€“1999. International Journal of Remote Sensing, 2006, 27, 5115-5122.	1.3	31
56	High-resolution satellite data reveal an increase in peak growing season gross primary production in a high-Arctic wet tundra ecosystem 1992â€“2008. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 407-416.	1.4	31
57	Classification of Grassland Successional Stages Using Airborne Hyperspectral Imagery. Remote Sensing, 2014, 6, 7732-7761.	1.8	29
58	An Empirical Assessment of the MODIS Land Cover Dynamics and TIMESAT Land Surface Phenology Algorithms. Remote Sensing, 2019, 11, 2201.	1.8	29
59	Radiometric Correction of Multispectral UAS Images: Evaluating the Accuracy of the Parrot Sequoia Camera and Sunshine Sensor. Remote Sensing, 2021, 13, 577.	1.8	29
60	Modelling of growing season methane fluxes in a high-Arctic wet tundra ecosystem 1997â€“2010 using in situ and high-resolution satellite data. Tellus, Series B: Chemical and Physical Meteorology, 2013, 65, 19722.	0.8	24
61	TIMESAT for Processing Time-Series Data from Satellite Sensors for Land Surface Monitoring. Remote Sensing and Digital Image Processing, 2016, , 177-194.	0.7	24
62	Biodiversity decline with increasing crop productivity in agricultural fields revealed by satellite remote sensing. Ecological Indicators, 2021, 130, 108098.	2.6	24
63	Fast estimation of spatially dependent temporal vegetation trends using Gaussian Markov random fields. Computational Statistics and Data Analysis, 2009, 53, 2885-2896.	0.7	19
64	Upscaling Northern Peatland CO2 Fluxes Using Satellite Remote Sensing Data. Remote Sensing, 2021, 13, 818.	1.8	19
65	Noise estimation in NOAA AVHRR maximum-value composite NDVI images. International Journal of Remote Sensing, 1995, 16, 2955-2962.	1.3	18
66	Mapping the reduction in gross primary productivity in subarctic birch forests due to insect outbreaks. Biogeosciences, 2017, 14, 1703-1719.	1.3	18
67	First assessment of the plant phenology index (PPI) for estimating gross primary productivity in African semi-arid ecosystems. International Journal of Applied Earth Observation and Geoinformation, 2019, 78, 249-260.	1.4	18
68	Development of a method for monitoring of insect induced forest defoliation â€“ limitation of MODIS data in Fennoscandian forest landscapes. Silva Fennica, 2016, 50, .	0.5	18
69	Spatial Influence of Topographical Factors on Yield of Potato (Solanum tuberosum L.) in Central Sweden. Precision Agriculture, 2005, 6, 341-357.	3.1	17
70	Ecosystem functional assessment based on the â€œoptical typeâ€•concept and self-similarity patterns: An application using MODIS-NDVI time series autocorrelation. International Journal of Applied Earth Observation and Geoinformation, 2015, 43, 132-148.	1.4	17
71	Impact of nutrients on peatland GPP estimations using MODIS time series data. Remote Sensing of Environment, 2010, 114, 2137-2145.	4.6	16
72	The complex multi-sectoral impacts of drought: Evidence from a mountainous basin in the Central Spanish Pyrenees. Science of the Total Environment, 2021, 769, 144702.	3.9	15

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73	Estimating and Analyzing Savannah Phenology with a Lagged Time Series Model. PLoS ONE, 2016, 11, e0154615.	1.1	15
74	<roman><italic>In Situ</italic></roman> Calibration of Light Sensors for Long-Term Monitoring of Vegetation. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3405-3416.	2.7	13
75	Applicability of leaf area index products for boreal regions of Sweden. International Journal of Remote Sensing, 2009, 30, 5619-5632.	1.3	12
76	Modelling Daily Gross Primary Productivity with Sentinel-2 Data in the Nordic Regionâ€“Comparison with Data from MODIS. Remote Sensing, 2021, 13, 469.	1.8	12
77	SEASONALITY EXTRACTION FROM TIME-SERIES OF SATELLITE SENSOR DATA. , 2003, , 487-500.		11
78	Influence of solar zenith angles on observed trends in the NOAA/NASA 8â€km Pathfinder normalized difference vegetation index over the African Sahel. International Journal of Remote Sensing, 2006, 27, 1973-1991.	1.3	10
79	Effect of climate dataset selection on simulations of terrestrial GPP: Highest uncertainty for tropical regions. PLoS ONE, 2018, 13, e0199383.	1.1	10
80	Investigating modelled and observed Terra/MODIS 500-m reflectance data for viewing and illumination effects. Advances in Space Research, 2007, 39, 119-124.	1.2	9
81	Airborne hyperspectral data predict Ellenberg indicator values for nutrient and moisture availability in dry grazed grasslands within a local agricultural landscape. Ecological Indicators, 2016, 66, 503-516.	2.6	9
82	Remotely sensed soil moisture to estimate savannah NDVI. PLoS ONE, 2018, 13, e0200328.	1.1	9
83	Estimating Net Primary Production of Swedish Forest Landscapes by Combining Mechanistic Modeling and Remote Sensing. Ambio, 2009, 38, 316-324.	2.8	8
84	Modelling and upscaling ecosystem respiration using thermal cameras and UAVs: Application to a peatland during and after a hot drought. Agricultural and Forest Meteorology, 2021, 300, 108330.	1.9	8
85	Comparison of carbon assimilation estimates over tropical forest types in India based on different satellite and climate data products. International Journal of Applied Earth Observation and Geoinformation, 2012, 18, 557-563.	1.4	5
86	European Remote Sensing: progress, challenges, and opportunities. International Journal of Remote Sensing, 2017, 38, 1759-1764.	1.3	5
87	Field-scale CH₄ emission at a subarctic mire with heterogeneous permafrost thaw status. Biogeosciences, 2021, 18, 5811-5830.	1.3	5
88	<title>Extracting information about vegetation seasons in Africa from Pathfinder AVHRR NDVI imagery using temporal filtering and least-squares fits to asymmetric Gaussian functions</title>. , 2003, , .		4
89	Estimating leaf area index in coniferous and deciduous forests in Sweden using Landsat optical sensor data. , 2003, 4879, 379.		3
90	Estimation of Gross Primary Productivity of an Ombrotrophic Bog in Southern Sweden. , 2008, , .		1

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91	Comparison of Light Use Efficiency, Plant Phenology Index, and Light Response Function-Based GPP Models in the Northern Forest Landscape. , 2021, , .		0