

# Lars R Eklundh

## List of Publications by Citations

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90  
papers

7,322  
citations

37  
h-index

85  
g-index

97  
ext. papers

8,438  
ext. citations

6.5  
avg, IF

6.11  
L-index

#	Paper	IF	Citations
90	A simple method for reconstructing a high-quality NDVI time-series data set based on the Savitzky-Golay filter. <i>Remote Sensing of Environment</i> , <b>2004</b> , 91, 332-344	13.2	1236
89	TIMESAT program for analyzing time-series of satellite sensor data. <i>Computers and Geosciences</i> , <b>2004</b> , 30, 833-845	4.5	1177
88	Seasonality extraction by function fitting to time-series of satellite sensor data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2002</b> , 40, 1824-1832	8.1	758
87	A recent greening of the Sahel—trends, patterns and potential causes. <i>Journal of Arid Environments</i> , <b>2005</b> , 63, 556-566	2.5	388
86	AVHRR derived phenological change in the Sahel and Soudan, Africa, 1982–2005. <i>Remote Sensing of Environment</i> , <b>2007</b> , 108, 385-392	13.2	248
85	Estimation of diurnal air temperature using MSG SEVIRI data in West Africa. <i>Remote Sensing of Environment</i> , <b>2007</b> , 110, 262-274	13.2	173
84	Vegetation index trends for the African Sahel 1982–1999. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	169
83	Precipitation controls Sahel greening trend. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	164
82	Detecting changes in vegetation trends using time series segmentation. <i>Remote Sensing of Environment</i> , <b>2015</b> , 156, 182-195	13.2	158
81	Continental-scale land surface phenology from harmonized Landsat 8 and Sentinel-2 imagery. <i>Remote Sensing of Environment</i> , <b>2020</b> , 240, 111685	13.2	114
80	Impact of understory vegetation on forest canopy reflectance and remotely sensed LAI estimates. <i>Remote Sensing of Environment</i> , <b>2006</b> , 103, 408-418	13.2	114
79	Annual changes in MODIS vegetation indices of Swedish coniferous forests in relation to snow dynamics and tree phenology. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 2719-2730	13.2	109
78	Exploring the potential of MODIS EVI for modeling gross primary production across African ecosystems. <i>Remote Sensing of Environment</i> , <b>2011</b> , 115, 1081-1089	13.2	102
77	Mapping insect defoliation in Scots pine with MODIS time-series data. <i>Remote Sensing of Environment</i> , <b>2009</b> , 113, 1566-1573	13.2	101
76	Performance of Smoothing Methods for Reconstructing NDVI Time-Series and Estimating Vegetation Phenology from MODIS Data. <i>Remote Sensing</i> , <b>2017</b> , 9, 1271	5	100
75	Challenges for drought mitigation in Africa: The potential use of geospatial data and drought information systems. <i>Applied Geography</i> , <b>2012</b> , 34, 471-486	4.4	99
74	Investigating relationships between Landsat ETM+ sensor data and leaf area index in a boreal conifer forest. <i>Remote Sensing of Environment</i> , <b>2001</b> , 78, 239-251	13.2	97

73	A comparative analysis of standardised and unstandardised Principal Components Analysis in remote sensing. <i>International Journal of Remote Sensing</i> , <b>1993</b> , 14, 1359-1370	3.1	92
72	Automated mapping of vegetation trends with polynomials using NDVI imagery over the Sahel. <i>Remote Sensing of Environment</i> , <b>2014</b> , 141, 79-89	13.2	83
71	A physically based vegetation index for improved monitoring of plant phenology. <i>Remote Sensing of Environment</i> , <b>2014</b> , 152, 512-525	13.2	82
70	Net primary production and light use efficiency in a mixed coniferous forest in Sweden. <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 412-423	8.4	77
69	A ground-validated NDVI dataset for monitoring vegetation dynamics and mapping phenology in Fennoscandia and the Kola peninsula. <i>International Journal of Remote Sensing</i> , <b>2007</b> , 28, 4311-4330	3.1	71
68	Challenges and Best Practices for Deriving Temperature Data from an Uncalibrated UAV Thermal Infrared Camera. <i>Remote Sensing</i> , <b>2019</b> , 11, 567	5	66
67	A Method for Robust Estimation of Vegetation Seasonality from Landsat and Sentinel-2 Time Series Data. <i>Remote Sensing</i> , <b>2018</b> , 10, 635	5	66
66	Ground-Based Optical Measurements at European Flux Sites: A Review of Methods, Instruments and Current Controversies. <i>Sensors</i> , <b>2011</b> , 11, 7954-7981	3.8	65
65	Ground-based optical measurements at European flux sites: a review of methods, instruments and current controversies. <i>Sensors</i> , <b>2011</b> , 11, 7954-81	3.8	63
64	Estimating relations between AVHRR NDVI and rainfall in East Africa at 10-day and monthly time scales. <i>International Journal of Remote Sensing</i> , <b>1998</b> , 19, 563-570	3.1	63
63	Estimating northern peatland CO <sub>2</sub> exchange from MODIS time series data. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 1178-1189	13.2	60
62	An optical sensor network for vegetation phenology monitoring and satellite data calibration. <i>Sensors</i> , <b>2011</b> , 11, 7678-709	3.8	56
61	Estimating LAI in deciduous forest stands. <i>Agricultural and Forest Meteorology</i> , <b>2005</b> , 129, 27-37	5.8	54
60	Estimation of absorbed PAR across Scandinavia from satellite measurements. Part II: Modeling and evaluating the fractional absorption. <i>Remote Sensing of Environment</i> , <b>2007</b> , 110, 240-251	13.2	48
59	Investigating the use of Landsat thematic mapper data for estimation of forest leaf area index in southern Sweden. <i>Canadian Journal of Remote Sensing</i> , <b>2003</b> , 29, 349-362	1.8	43
58	Mapping fractional forest cover across the highlands of mainland Southeast Asia using MODIS data and regression tree modelling. <i>International Journal of Remote Sensing</i> , <b>2007</b> , 28, 23-46	3.1	41
57	EUROSPEC: at the interface between remote-sensing and ecosystem CO <sub>2</sub> flux measurements in Europe. <i>Biogeosciences</i> , <b>2015</b> , 12, 6103-6124	4.6	40
56	The supply and demand of net primary production in the Sahel. <i>Environmental Research Letters</i> , <b>2014</b> , 9, 094003	6.2	39

55	Estimating net primary production for Scandinavian forests using data from Terra/MODIS. <i>Advances in Space Research</i> , <b>2007</b> , 39, 125-130	2.4	39
54	Climate data induced uncertainty in model-based estimations of terrestrial primary productivity. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 064013	6.2	37
53	Ecological applications of physically based remote sensing methods. <i>Scandinavian Journal of Forest Research</i> , <b>2010</b> , 25, 325-339	1.7	37
52	Near real-time monitoring of insect induced defoliation in subalpine birch forests with MODIS derived NDVI. <i>Remote Sensing of Environment</i> , <b>2016</b> , 181, 42-53	13.2	36
51	TIMESAT: A Software Package for Time-Series Processing and Assessment of Vegetation Dynamics. <i>Remote Sensing and Digital Image Processing</i> , <b>2015</b> , 141-158	0.2	34
50	Spatio-temporal patterns in vegetation start of season across the island of Ireland using the MERIS Global Vegetation Index. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2012</b> , 68, 79-94	11.8	34
49	A new invasive insect in Sweden [Physokermes inopinatus: Tracing forest damage with satellite based remote sensing. <i>Forest Ecology and Management</i> , <b>2012</b> , 285, 29-37	3.9	33
48	Estimation of absorbed PAR across Scandinavia from satellite measurements. <i>Remote Sensing of Environment</i> , <b>2007</b> , 110, 252-261	13.2	33
47	Regionalization and spatial estimation of ethiopian mean annual rainfall. <i>International Journal of Climatology</i> , <b>1990</b> , 10, 473-494	3.5	33
46	Disentangling remotely-sensed plant phenology and snow seasonality at northern Europe using MODIS and the plant phenology index. <i>Remote Sensing of Environment</i> , <b>2017</b> , 198, 203-212	13.2	32
45	Improving the estimation of noise from NOAA AVHRR NDVI for Africa using geostatistics. <i>International Journal of Remote Sensing</i> , <b>2001</b> , 22, 1067-1080	3.1	32
44	Modeling GPP in the Nordic forest landscape with MODIS time series data—Comparison with the MODIS GPP product. <i>Remote Sensing of Environment</i> , <b>2012</b> , 126, 136-147	13.2	30
43	High-resolution satellite data reveal an increase in peak growing season gross primary production in a high-Arctic wet tundra ecosystem 1992–2008. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2012</b> , 18, 407-416	7.3	28
42	Broad-scale increase in NPP quantified for the African Sahel, 1982–1999. <i>International Journal of Remote Sensing</i> , <b>2006</b> , 27, 5115-5122	3.1	27
41	Dynamic response of NDVI to soil moisture variations during different hydrological regimes in the Sahel region. <i>International Journal of Remote Sensing</i> , <b>2017</b> , 38, 5408-5429	3.1	26
40	Classification of Grassland Successional Stages Using Airborne Hyperspectral Imagery. <i>Remote Sensing</i> , <b>2014</b> , 6, 7732-7761	5	24
39	Rapid generation of Digital Elevation Models from topographic maps. <i>International Journal of Geographical Information Science</i> , <b>1995</b> , 9, 329-340	4.1	24
38	New satellite-based estimates show significant trends in spring phenology and complex sensitivities to temperature and precipitation at northern European latitudes. <i>International Journal of Biometeorology</i> , <b>2019</b> , 63, 763-775	3.7	24

37	Modelling of growing season methane fluxes in a high-Arctic wet tundra ecosystem 1997-2010 using in situ and high-resolution satellite data. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2013</b> , 65, 19722	3.3	22
36	An Empirical Assessment of the MODIS Land Cover Dynamics and TIMESAT Land Surface Phenology Algorithms. <i>Remote Sensing</i> , <b>2019</b> , 11, 2201	5	20
35	Fast estimation of spatially dependent temporal vegetation trends using Gaussian Markov random fields. <i>Computational Statistics and Data Analysis</i> , <b>2009</b> , 53, 2885-2896	1.6	18
34	TIMESAT for Processing Time-Series Data from Satellite Sensors for Land Surface Monitoring. <i>Remote Sensing and Digital Image Processing</i> , <b>2016</b> , 177-194	0.2	17
33	Mapping the reduction in gross primary productivity in subarctic birch forests due to insect outbreaks. <i>Biogeosciences</i> , <b>2017</b> , 14, 1703-1719	4.6	15
32	Impact of nutrients on peatland GPP estimations using MODIS time series data. <i>Remote Sensing of Environment</i> , <b>2010</b> , 114, 2137-2145	13.2	14
31	Spatial Influence of Topographical Factors on Yield of Potato ( <i>Solanum tuberosum</i> L.) in Central Sweden. <i>Precision Agriculture</i> , <b>2005</b> , 6, 341-357	5.6	14
30	First assessment of the plant phenology index (PPI) for estimating gross primary productivity in African semi-arid ecosystems. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2019</b> , 78, 249-260	7.3	13
29	Ecosystem functional assessment based on the optical type I concept and self-similarity patterns: An application using MODIS-NDVI time series autocorrelation. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2015</b> , 43, 132-148	7.3	13
28	Noise estimation in NOAA AVHRR maximum-value composite NDVI images. <i>International Journal of Remote Sensing</i> , <b>1995</b> , 16, 2955-2962	3.1	13
27	Development of a method for monitoring of insect induced forest defoliation - limitation of MODIS data in Fennoscandian forest landscapes. <i>Silva Fennica</i> , <b>2016</b> , 50,	1.9	13
26	Radiometric Correction of Multispectral UAS Images: Evaluating the Accuracy of the Parrot Sequoia Camera and Sunshine Sensor. <i>Remote Sensing</i> , <b>2021</b> , 13, 577	5	13
25	In Situ Calibration of Light Sensors for Long-Term Monitoring of Vegetation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2015</b> , 53, 3405-3416	8.1	12
24	Calibrating vegetation phenology from Sentinel-2 using eddy covariance, PhenoCam, and PEP725 networks across Europe. <i>Remote Sensing of Environment</i> , <b>2021</b> , 260, 112456	13.2	11
23	Airborne hyperspectral data predict Ellenberg indicator values for nutrient and moisture availability in dry grazed grasslands within a local agricultural landscape. <i>Ecological Indicators</i> , <b>2016</b> , 66, 503-516	5.8	9
22	SEASONALITY EXTRACTION FROM TIME-SERIES OF SATELLITE SENSOR DATA <b>2003</b> , 487-500		9
21	Assessing Forest Phenology: A Multi-Scale Comparison of Near-Surface (UAV, Spectral Reflectance Sensor, PhenoCam) and Satellite (MODIS, Sentinel-2) Remote Sensing. <i>Remote Sensing</i> , <b>2021</b> , 13, 1597	5	9
20	Applicability of leaf area index products for boreal regions of Sweden. <i>International Journal of Remote Sensing</i> , <b>2009</b> , 30, 5619-5632	3.1	8

19	Investigating modelled and observed Terra/MODIS 500-m reflectance data for viewing and illumination effects. <i>Advances in Space Research</i> , <b>2007</b> , 39, 119-124	2.4	8
18	Influence of solar zenith angles on observed trends in the NOAA/NASA 8-km Pathfinder normalized difference vegetation index over the African Sahel. <i>International Journal of Remote Sensing</i> , <b>2006</b> , 27, 1973-1991	3.1	8
17	Global maps of soil temperature.. <i>Global Change Biology</i> , <b>2021</b> ,	11.4	8
16	Estimating and Analyzing Savannah Phenology with a Lagged Time Series Model. <i>PLoS ONE</i> , <b>2016</b> , 11, e0154615	3.7	8
15	Effect of climate dataset selection on simulations of terrestrial GPP: Highest uncertainty for tropical regions. <i>PLoS ONE</i> , <b>2018</b> , 13, e0199383	3.7	8
14	Remotely sensed soil moisture to estimate savannah NDVI. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200328	3.7	7
13	EUROSPEC: at the interface between remote sensing and ecosystem CO <sub>2</sub> flux measurements in Europe		7
12	Estimating net primary production of Swedish forest landscapes by combining mechanistic modeling and remote sensing. <i>Ambio</i> , <b>2009</b> , 38, 316-24	6.5	6
11	A simple method for reconstructing a high-quality NDVI time-series data set based on the Savitzky-Golay filter. <i>Remote Sensing of Environment</i> , <b>2004</b> , 91, 332-332	13.2	6
10	Upscaling Northern Peatland CO <sub>2</sub> Fluxes Using Satellite Remote Sensing Data. <i>Remote Sensing</i> , <b>2021</b> , 13, 818	5	6
9	Comparison of carbon assimilation estimates over tropical forest types in India based on different satellite and climate data products. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2012</b> , 18, 557-563	7.3	5
8	European Remote Sensing: progress, challenges, and opportunities. <i>International Journal of Remote Sensing</i> , <b>2017</b> , 38, 1759-1764	3.1	4
7	Extracting information about vegetation seasons in Africa from Pathfinder AVHRR NDVI imagery using temporal filtering and least-squares fits to asymmetric Gaussian functions <b>2003</b> ,		4
6	Estimating leaf area index in coniferous and deciduous forests in Sweden using Landsat optical sensor data <b>2003</b> , 4879, 379		3
5	The complex multi-sectoral impacts of drought: Evidence from a mountainous basin in the Central Spanish Pyrenees. <i>Science of the Total Environment</i> , <b>2021</b> , 769, 144702	10.2	3
4	Modelling Daily Gross Primary Productivity with Sentinel-2 Data in the Nordic Region—Comparison with Data from MODIS. <i>Remote Sensing</i> , <b>2021</b> , 13, 469	5	3
3	Biodiversity decline with increasing crop productivity in agricultural fields revealed by satellite remote sensing. <i>Ecological Indicators</i> , <b>2021</b> , 130, 108098	5.8	3
2	Field-scale CH <sub>4</sub> emission at a subarctic mire with heterogeneous permafrost thaw status. <i>Biogeosciences</i> , <b>2021</b> , 18, 5811-5830	4.6	1

- 1 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 5.8 ○