Lars R Eklundh

List of Publications by Year in Descending Order

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	Global maps of soil temperature.. *Global Change Biology*, **2021**,	11.4	8
89	Field-scale CH₄ emission at a subarctic mire with heterogeneous permafrost thaw status. *Biogeosciences*, **2021**, 18, 5811-5830	4.6	1
88	Assessing Forest Phenology: A Multi-Scale Comparison of Near-Surface (UAV, Spectral Reflectance Sensor, PhenoCam) and Satellite (MODIS, Sentinel-2) Remote Sensing. *Remote Sensing*, **2021**, 13, 1597	5	9
87	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	0
86	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	10.2	3
85	Modelling Daily Gross Primary Productivity with Sentinel-2 Data in the Nordic Region Comparison with Data from MODIS. *Remote Sensing*, **2021**, 13, 469	5	3
84	Radiometric Correction of Multispectral UAS Images: Evaluating the Accuracy of the Parrot Sequoia Camera and Sunshine Sensor. *Remote Sensing*, **2021**, 13, 577	5	13
83	Upscaling Northern Peatland CO2 Fluxes Using Satellite Remote Sensing Data. *Remote Sensing*, **2021**, 13, 818	5	6
82	Calibrating vegetation phenology from Sentinel-2 using eddy covariance, PhenoCam, and PEP725 networks across Europe. *Remote Sensing of Environment*, **2021**, 260, 112456	13.2	11
81	Biodiversity decline with increasing crop productivity in agricultural fields revealed by satellite remote sensing. *Ecological Indicators*, **2021**, 130, 108098	5.8	3
80	Continental-scale land surface phenology from harmonized Landsat 8 and Sentinel-2 imagery. *Remote Sensing of Environment*, **2020**, 240, 111685	13.2	114
79	Challenges and Best Practices for Deriving Temperature Data from an Uncalibrated UAV Thermal Infrared Camera. *Remote Sensing*, **2019**, 11, 567	5	66
78	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	7.3	13
77	An Empirical Assessment of the MODIS Land Cover Dynamics and TIMESAT Land Surface Phenology Algorithms. *Remote Sensing*, **2019**, 11, 2201	5	20
76	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	3.7	24
75	A Method for Robust Estimation of Vegetation Seasonality from Landsat and Sentinel-2 Time Series Data. *Remote Sensing*, **2018**, 10, 635	5	66
74	Remotely sensed soil moisture to estimate savannah NDVI. *PLoS ONE*, **2018**, 13, e0200328	3.7	7

73	Effect of climate dataset selection on simulations of terrestrial GPP: Highest uncertainty for tropical regions. *PLoS ONE*, **2018**, 13, e0199383	3.7	8
72	European Remote Sensing: progress, challenges, and opportunities. *International Journal of Remote Sensing*, **2017**, 38, 1759-1764	3.1	4
71	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	3.1	26
70	Mapping the reduction in gross primary productivity in subarctic birch forests due to insect outbreaks. *Biogeosciences*, **2017**, 14, 1703-1719	4.6	15
69	Climate data induced uncertainty in model-based estimations of terrestrial primary productivity. *Environmental Research Letters*, **2017**, 12, 064013	6.2	37
68	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	13.2	32
67	Performance of Smoothing Methods for Reconstructing NDVI Time-Series and Estimating Vegetation Phenology from MODIS Data. *Remote Sensing*, **2017**, 9, 1271	5	100
66	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	5.8	9
65	Estimating and Analyzing Savannah Phenology with a Lagged Time Series Model. *PLoS ONE*, **2016**, 11, e0154615	3.7	8
64	Development of a method for monitoring of insect induced forest defoliation limitation of MODIS data in Fennoscandian forest landscapes. *Silva Fennica*, **2016**, 50,	1.9	13
63	TIMESAT for Processing Time-Series Data from Satellite Sensors for Land Surface Monitoring. *Remote Sensing and Digital Image Processing*, **2016**, 177-194	0.2	17
62	Near real-time monitoring of insect induced defoliation in subalpine birch forests with MODIS derived NDVI. *Remote Sensing of Environment*, **2016**, 181, 42-53	13.2	36
61	In Situ Calibration of Light Sensors for Long-Term Monitoring of Vegetation. *IEEE Transactions on Geoscience and Remote Sensing*, **2015**, 53, 3405-3416	8.1	12
60	Ecosystem functional assessment based on the optical type 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	7.3	13
59	TIMESAT: A Software Package for Time-Series Processing and Assessment of Vegetation Dynamics. *Remote Sensing and Digital Image Processing*, **2015**, 141-158	0.2	34
58	Detecting changes in vegetation trends using time series segmentation. *Remote Sensing of Environment*, **2015**, 156, 182-195	13.2	158
57	EUROSPEC: at the interface between remote-sensing and ecosystem CO₂ flux measurements in Europe. *Biogeosciences*, **2015**, 12, 6103-6124	4.6	40
56	Automated mapping of vegetation trends with polynomials using NDVI imagery over the Sahel. *Remote Sensing of Environment*, **2014**, 141, 79-89	13.2	83

55	A physically based vegetation index for improved monitoring of plant phenology. *Remote Sensing of Environment*, **2014**, 152, 512-525	13.2	82
54	Classification of Grassland Successional Stages Using Airborne Hyperspectral Imagery. *Remote Sensing*, **2014**, 6, 7732-7761	5	24
53	The supply and demand of net primary production in the Sahel. *Environmental Research Letters*, **2014**, 9, 094003	6.2	39
52	Modelling of growing season methane fluxes in a high-Arctic wet tundra ecosystem 1997–2010 using in situ and high-resolution satellite data. *Tellus, Series B: Chemical and Physical Meteorology*, **2013**, 65, 19722	3.3	22
51	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	11.8	34
50	A new invasive insect in Sweden – Physokermes inopinatus: Tracing forest damage with satellite based remote sensing. *Forest Ecology and Management*, **2012**, 285, 29-37	3.9	33
49	Challenges for drought mitigation in Africa: The potential use of geospatial data and drought information systems. *Applied Geography*, **2012**, 34, 471-486	4.4	99
48	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	7.3	5
47	High-resolution satellite data reveal an increase in peak growing season gross primary production in a high-Arctic wet tundra ecosystem 1992–2008. *International Journal of Applied Earth Observation and Geoinformation*, **2012**, 18, 407-416	7.3	28
46	Modeling GPP in the Nordic forest landscape with MODIS time series data—comparison with the MODIS GPP product. *Remote Sensing of Environment*, **2012**, 126, 136-147	13.2	30
45	Ground-Based Optical Measurements at European Flux Sites: A Review of Methods, Instruments and Current Controversies. *Sensors*, **2011**, 11, 7954-7981	3.8	65
44	Exploring the potential of MODIS EVI for modeling gross primary production across African ecosystems. *Remote Sensing of Environment*, **2011**, 115, 1081-1089	13.2	102
43	An optical sensor network for vegetation phenology monitoring and satellite data calibration. *Sensors*, **2011**, 11, 7678-709	3.8	56
42	Ground-based optical measurements at European flux sites: a review of methods, instruments and current controversies. *Sensors*, **2011**, 11, 7954-81	3.8	63
41	Ecological applications of physically based remote sensing methods. *Scandinavian Journal of Forest Research*, **2010**, 25, 325-339	1.7	37
40	Estimating northern peatland CO2 exchange from MODIS time series data. *Remote Sensing of Environment*, **2010**, 114, 1178-1189	13.2	60
39	Impact of nutrients on peatland GPP estimations using MODIS time series data. *Remote Sensing of Environment*, **2010**, 114, 2137-2145	13.2	14
38	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	13.2	109

37	Estimating net primary production of Swedish forest landscapes by combining mechanistic modeling and remote sensing. *Ambio*, **2009**, 38, 316-24	6.5	6
36	Applicability of leaf area index products for boreal regions of Sweden. *International Journal of Remote Sensing*, **2009**, 30, 5619-5632	3.1	8
35	Mapping insect defoliation in Scots pine with MODIS time-series data. *Remote Sensing of Environment*, **2009**, 113, 1566-1573	13.2	101
34	Fast estimation of spatially dependent temporal vegetation trends using Gaussian Markov random fields. *Computational Statistics and Data Analysis*, **2009**, 53, 2885-2896	1.6	18
33	Estimating net primary production for Scandinavian forests using data from Terra/MODIS. *Advances in Space Research*, **2007**, 39, 125-130	2.4	39
32	AVHRR derived phenological change in the Sahel and Soudan, Africa, 1982–2005. *Remote Sensing of Environment*, **2007**, 108, 385-392	13.2	248
31	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	13.2	48
30	Estimation of absorbed PAR across Scandinavia from satellite measurements. *Remote Sensing of Environment*, **2007**, 110, 252-261	13.2	33
29	Investigating modelled and observed Terra/MODIS 500-m reflectance data for viewing and illumination effects. *Advances in Space Research*, **2007**, 39, 119-124	2.4	8
28	Estimation of diurnal air temperature using MSG SEVIRI data in West Africa. *Remote Sensing of Environment*, **2007**, 110, 262-274	13.2	173
27	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	3.1	41
26	A ground-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	3.1	71
25	Broad-scale increase in NPP quantified for the African Sahel, 1982–1999. *International Journal of Remote Sensing*, **2006**, 27, 5115-5122	3.1	27
24	Influence of solar zenith angles on observed trends in the NOAA/NASA 8-km Pathfinder normalized difference vegetation index over the African Sahel. *International Journal of Remote Sensing*, **2006**, 27, 1973-1991	3.1	8
23	Impact of understory vegetation on forest canopy reflectance and remotely sensed LAI estimates. *Remote Sensing of Environment*, **2006**, 103, 408-418	13.2	114
22	A recent greening of the Sahel–trends, patterns and potential causes. *Journal of Arid Environments* , **2005**, 63, 556-566	2.5	388
21	Estimating LAI in deciduous forest stands. *Agricultural and Forest Meteorology*, **2005**, 129, 27-37	5.8	54
20	Precipitation controls Sahel greening trend. *Geophysical Research Letters*, **2005**, 32,	4.9	164

19	Net primary production and light use efficiency in a mixed coniferous forest in Sweden. *Plant, Cell and Environment*, **2005**, 28, 412-423	8.4	77
18	Spatial Influence of Topographical Factors on Yield of Potato (Solanum tuberosum L.) in Central Sweden. *Precision Agriculture*, **2005**, 6, 341-357	5.6	14
17	TIMESAT program for analyzing time-series of satellite sensor data. *Computers and Geosciences*, **2004**, 30, 833-845	4.5	1177
16	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, 332-344	13.2	1236
15	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	13.2	6
14	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	1.8	43
13	Extracting information about vegetation seasons in Africa from Pathfinder AVHRR NDVI imagery using temporal filtering and least-squares fits to asymmetric Gaussian functions **2003**,		4
12	Estimating leaf area index in coniferous and deciduous forests in Sweden using Landsat optical sensor data **2003**, 4879, 379		3
11	Vegetation index trends for the African Sahel 1982 1999. *Geophysical Research Letters*, **2003**, 30,	4.9	169
10	SEASONALITY EXTRACTION FROM TIME-SERIES OF SATELLITE SENSOR DATA **2003**, 487-500		9
9	Seasonality extraction by function fitting to time-series of satellite sensor data. *IEEE Transactions on Geoscience and Remote Sensing*, **2002**, 40, 1824-1832	8.1	758
8	Investigating relationships between Landsat ETM+ sensor data and leaf area index in a boreal conifer forest. *Remote Sensing of Environment*, **2001**, 78, 239-251	13.2	97
7	Improving the estimation of noise from NOAA AVHRR NDVI for Africa using geostatistics. *International Journal of Remote Sensing*, **2001**, 22, 1067-1080	3.1	32
6	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	3.1	63
5	Noise estimation in NOAA AVHRR maximum-value composite NDVI images. *International Journal of Remote Sensing*, **1995**, 16, 2955-2962	3.1	13
4	Rapid generation of Digital Elevation Models from topographic maps. *International Journal of Geographical Information Science*, **1995**, 9, 329-340	4.1	24
3	A comparative analysis of standardised and unstandardised Principal Components Analysis in remote sensing. *International Journal of Remote Sensing*, **1993**, 14, 1359-1370	3.1	92
2	Regionalization and spatial estimation of ethiopian mean annual rainfall. *International Journal of Climatology*, **1990**, 10, 473-494	3.5	33

1	EUROSPEC: at the interface between remote sensing and ecosystem CO₂ flux measurements in Europe	7