

Martin Schlerf

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

3,904
citations

159585

30
h-index

175258

52
g-index

57
all docs

57
docs citations

57
times ranked

3894
citing authors

#	ARTICLE	IF	CITATIONS
1	Shifts in regional water availability due to global tree restoration. <i>Nature Geoscience</i> , 2022, 15, 363-368.	12.9	90
2	Revisiting crop water stress index based on potato field experiments in Northern Germany. <i>Agricultural Water Management</i> , 2022, 269, 107664.	5.6	11
3	Estimation of canopy nitrogen content in winter wheat from Sentinel-2 images for operational agricultural monitoring. <i>Precision Agriculture</i> , 2022, 23, 2229-2252.	6.0	11
4	Comparison of Crop Trait Retrieval Strategies Using UAV-Based VNIR Hyperspectral Imaging. <i>Remote Sensing</i> , 2021, 13, 1748.	4.0	26
5	Thermal infrared remote sensing of vegetation: Current status and perspectives. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 102, 102415.	2.8	15
6	Thermal and Shortwave Infrared Remote Sensing of Ecosystem Processes: Opportunities, Synergies, and Challenges. , 2021, , .		1
7	Examining the link between vegetation leaf area and landâ€‘atmosphere exchange of water, energy, and carbon fluxes using FLUXNET data. <i>Biogeosciences</i> , 2020, 17, 4443-4457.	3.3	18
8	CropGIS â€‘ A web application for the spatial and temporal visualization of past, present and future crop biomass development. <i>Computers and Electronics in Agriculture</i> , 2019, 161, 185-193.	7.7	18
9	Challenges and Future Perspectives of Multi-/Hyperspectral Thermal Infrared Remote Sensing for Crop Water-Stress Detection: A Review. <i>Remote Sensing</i> , 2019, 11, 1240.	4.0	149
10	Does the Normalized Difference Vegetation Index explain spatial and temporal variability in sap velocity in temperate forest ecosystems?. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2077-2091.	4.9	11
11	Introduction of Variable Correlation for the Improved Retrieval of Crop Traits Using Canopy Reflectance Model Inversion. <i>Remote Sensing</i> , 2019, 11, 2681.	4.0	4
12	Analysis of Airborne Optical and Thermal Imagery for Detection of Water Stress Symptoms. <i>Remote Sensing</i> , 2018, 10, 1139.	4.0	64
13	A Satellite-Based Imaging Instrumentation Concept for Hyperspectral Thermal Remote Sensing. <i>Sensors</i> , 2017, 17, 1542.	3.8	13
14	Canopy-scale biophysical controls of transpiration and evaporation in the Amazon Basin. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4237-4264.	4.9	62
15	Foreword to the Special Issue on Hyperspectral Remote Sensing and Imaging Spectroscopy. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 3904-3908.	4.9	4
16	Plant species discrimination using emissive thermal infrared imaging spectroscopy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 53, 16-26.	2.8	25
17	Simple and robust methods for remote sensing of canopy chlorophyll content: a comparative analysis of hyperspectral data for different types of vegetation. <i>Plant, Cell and Environment</i> , 2016, 39, 2609-2623.	5.7	109
18	Water stress detection in potato plants using leaf temperature, emissivity, and reflectance. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 53, 27-39.	2.8	78

#	ARTICLE	IF	CITATIONS
19	Assessing MODIS GPP in Non-Forested Biomes in Water Limited Areas Using EC Tower Data. Remote Sensing, 2015, 7, 3274-3292.	4.0	5
20	Water stress detection using hyperspectral thermal infrared remote sensing. , 2015, , .		1
21	Comparative analysis of different retrieval methods for mapping grassland leaf area index using airborne imaging spectroscopy. International Journal of Applied Earth Observation and Geoinformation, 2015, 43, 19-31.	2.8	111
22	The fourth phase of the radiative transfer model intercomparison (RAMI) exercise: Actual canopy scenarios and conformity testing. Remote Sensing of Environment, 2015, 169, 418-437.	11.0	170
23	Enhanced biomass prediction by assimilating satellite data into a crop growth model. Environmental Modelling and Software, 2014, 62, 437-453.	4.5	44
24	Eutrophication of mangroves linked to depletion of foliar and soil base cations. Environmental Monitoring and Assessment, 2014, 186, 8487-8498.	2.7	9
25	Species discrimination using emissive thermal infrared imaging spectroscopy. , 2014, , .		0
26	Non-linear partial least square regression increases the estimation accuracy of grass nitrogen and phosphorus using in situ hyperspectral and environmental data. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 82, 27-40.	11.1	83
27	Changes in plant defense chemistry (pyrrolizidine alkaloids) revealed through high-resolution spectroscopy. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 80, 51-60.	11.1	14
28	Photosynthetic bark: Use of chlorophyll absorption continuum index to estimate <i>Boswellia papyrifera</i> bark chlorophyll content. International Journal of Applied Earth Observation and Geoinformation, 2013, 23, 71-80.	2.8	20
29	Savanna grass nitrogen to phosphorous ratio estimation using field spectroscopy and the potential for estimation with imaging spectroscopy. International Journal of Applied Earth Observation and Geoinformation, 2013, 23, 334-343.	2.8	29
30	Hyperspectral analysis of mangrove foliar chemistry using PLSR and support vector regression. International Journal of Remote Sensing, 2013, 34, 1724-1743.	2.9	91
31	Evaluation of three proposed indices for the retrieval of leaf water content from the mid-wave infrared (2â€“61/4m) spectra. Agricultural and Forest Meteorology, 2013, 171-172, 65-71.	4.8	60
32	Shrimp pond effluent dominates foliar nitrogen in disturbed mangroves as mapped using hyperspectral imagery. Marine Pollution Bulletin, 2013, 76, 42-51.	5.0	14
33	Predicting foliar biochemistry of tea (<i>Camellia sinensis</i>) using reflectance spectra measured at powder, leaf and canopy levels. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 78, 148-156.	11.1	52
34	Hyperspectral reflectance of leaves and flowers of an outbreak species discriminates season and successional stage of vegetation. International Journal of Applied Earth Observation and Geoinformation, 2013, 24, 32-41.	2.8	19
35	Suitability and adaptation of PROSAIL radiative transfer model for hyperspectral grassland studies. Remote Sensing Letters, 2013, 4, 55-64.	1.4	48
36	A thermal infrared imaging spectrometer for natural resources applications â€” First results. , 2013, , .		2

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37	The fourth radiation transfer model intercomparison (RAMSRT): Proficiency testing of canopy reflectance models with ISO 13528. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6869-6890.	3.3	102
38	Retrieving the Bioenergy Potential from Maize Crops Using Hyperspectral Remote Sensing. <i>Remote Sensing</i> , 2013, 5, 254-273.	4.0	13
39	Using a Genetic Algorithm as an Optimal Band Selector in the Mid and Thermal Infrared (2.5–14 μm) to Discriminate Vegetation Species. <i>Sensors</i> , 2012, 12, 8755-8769.	3.8	62
40	Estimation of leaf water content from far infrared (2.5–14 μm) spectra using continuous wavelet analysis. , 2012, , .		30
41	Estimation of grassland biomass and nitrogen using MERIS data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 19, 196-204.	2.8	66
42	Identifying plant species using mid-wave infrared (2.5–6 μm) and thermal infrared (8–14 μm) emissivity spectra. <i>Remote Sensing of Environment</i> , 2012, 118, 95-102.	11.0	127
43	Mapping spatio-temporal variation of grassland quantity and quality using MERIS data and the PROSAIL model. <i>Remote Sensing of Environment</i> , 2012, 121, 415-425.	11.0	100
44	An accurate retrieval of leaf water content from mid to thermal infrared spectra using continuous wavelet analysis. <i>Science of the Total Environment</i> , 2012, 437, 145-152.	8.0	81
45	A body temperature model for lizards as estimated from the thermal environment. <i>Journal of Thermal Biology</i> , 2012, 37, 56-64.	2.5	28
46	Soil biotic impact on plant species shoot chemistry and hyperspectral reflectance patterns. <i>New Phytologist</i> , 2012, 196, 1133-1144.	7.3	13
47	A Hyperspectral Thermal Infrared Imaging Instrument for Natural Resources Applications. <i>Remote Sensing</i> , 2012, 4, 3995-4009.	4.0	38
48	Vegetation Structure Retrieval in Beech and Spruce Forests Using Spectrodirectional Satellite Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 8-17.	4.9	43
49	Mapping grassland leaf area index with airborne hyperspectral imagery: A comparison study of statistical approaches and inversion of radiative transfer models. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2011, 66, 894-906.	11.1	170
50	Distribution of Barnacle Geese (<i>Branta leucopsis</i>) in Relation to Food Resources, Distance to Roosts, and the Location of Refuges. <i>Ardea</i> , 2011, 99, 217-226.	0.6	37
51	Water-removed spectra increase the retrieval accuracy when estimating savanna grass nitrogen and phosphorus concentrations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2011, 66, 408-417.	11.1	95
52	Reflectance Spectroscopy of Biochemical Components as Indicators of Tea (—Camellia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	0.6	22
53	Retrieval of chlorophyll and nitrogen in Norway spruce (<i>Picea abies</i> L. Karst.) using imaging spectroscopy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2010, 12, 17-26.	2.8	119
54	Inversion of a radiative transfer model for estimating vegetation LAI and chlorophyll in a heterogeneous grassland. <i>Remote Sensing of Environment</i> , 2008, 112, 2592-2604.	11.0	459

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55	LAI and chlorophyll estimation for a heterogeneous grassland using hyperspectral measurements. ISPRS Journal of Photogrammetry and Remote Sensing, 2008, 63, 409-426.	11.1	328
56	Inversion of a forest reflectance model to estimate structural canopy variables from hyperspectral remote sensing data. Remote Sensing of Environment, 2006, 100, 281-294.	11.0	230
57	Remote sensing of forest biophysical variables using HyMap imaging spectrometer data. Remote Sensing of Environment, 2005, 95, 177-194.	11.0	260