Thomas Udelhoven

List of Publications by Year
in descending order

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24	1,718	361413 20	713466 21
papers	citations	h-index	g-index

24	24	24	2338
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measuring soil organic carbon in croplands at regional scale using airborne imaging spectroscopy. Geoderma, 2010, 158, 32-45.	5.1	236
2	Title is missing!. Plant and Soil, 2003, 251, 319-329.	3.7	233
3	Challenges and Future Perspectives of Multi-/Hyperspectral Thermal Infrared Remote Sensing for Crop Water-Stress Detection: A Review. Remote Sensing, 2019, 11, 1240.	4.0	149
4	Development of a Hierarchical Classification System with Artificial Neural Networks and FT-IR Spectra for the Identification of Bacteria. Applied Spectroscopy, 2000, 54, 1471-1479.	2.2	139
5	The use of sediment colour measured by diffuse reflectance spectrometry to determine sediment sources: Application to the Attert River catchment (Luxembourg). Journal of Hydrology, 2010, 382, 49-63.	5.4	129
6	How Normalized Difference Vegetation Index (NDVI) Trendsfrom Advanced Very High Resolution Radiometer (AVHRR) and SystÃ¨me Probatoire dâ€™Observation de la Terre VEGETATION (SPOT VGT) Time Series Differ in Agricultural Areas: An Inner Mongolian Case Study. Remote Sensing, 2012, 4, 3364-3389.	4.0	84
7	Water stress detection in potato plants using leaf temperature, emissivity, and reflectance. International Journal of Applied Earth Observation and Geoinformation, 2016, 53, 27-39.	2.8	78
8	A rapid spectral-reflectance-based fingerprinting approach for documenting suspended sediment sources during storm runoff events. Journal of Soils and Sediments, 2010, 10, 400-413.	3.0	76
9	Identification of Scrapie Infection from Blood Serum by Fourier Transform Infrared Spectroscopy. Analytical Chemistry, 2002, 74, 3865-3868.	6.5	71
10	Antemortem Identification of Bovine Spongiform Encephalopathy from Serum Using Infrared Spectroscopy. Analytical Chemistry, 2003, 75, 6673-6678.	6.5	68
11	Analysis of Airborne Optical and Thermal Imagery for Detection of Water Stress Symptoms. Remote Sensing, 2018, 10, 1139.	4.0	64
12	The use of fine sediment fractal dimensions and colour to determine sediment sources in a small watershed. Catena, 2003, 53, 165-179.	5.0	49
13	Advantages using the thermal infrared (TIR) to detect and quantify semi-arid soil properties. Remote Sensing of Environment, 2015, 163, 296-311.	11.0	47
14	TimeStats: A Software Tool for the Retrieval of Temporal Patterns From Global Satellite Archives. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 310-317.	4.9	43
15	Soil organic carbon assessment by field and airborne spectrometry in bare croplands: accounting for soil surface roughness. Geoderma, 2014, 226-227, 94-102.	5.1	39
16	A Hyperspectral Thermal Infrared Imaging Instrument for Natural Resources Applications. Remote Sensing, 2012, 4, 3995-4009.	4.0	38
17	Land Surface Temperature Retrieval for Agricultural Areas Using a Novel UAV Platform Equipped with a Thermal Infrared and Multispectral Sensor. Remote Sensing, 2020, 12, 1075.	4.0	37
18	The NeuroDeveloperÂ®: a tool for modular neural classification of spectroscopic data. Chemometrics and Intelligent Laboratory Systems, 2003, 66, 219-226.	3.5	34

#	Article	IF	Citations
19	High Spatio- Temporal Resolution Land Surface Temperature Mission - a Copernicus Candidate Mission in Support of Agricultural Monitoring. , 2018, , .		29
20	Capability of feed-forward neural networks for a chemical evaluation of sediments with diffuse reflectance spectroscopy. Chemometrics and Intelligent Laboratory Systems, 2000, 51, 9-22.	3.5	28
21	Plant species discrimination using emissive thermal infrared imaging spectroscopy. International Journal of Applied Earth Observation and Geoinformation, 2016, 53, 16-26.	2.8	25
22	A Satellite-Based Imaging Instrumentation Concept for Hyperspectral Thermal Remote Sensing. Sensors, 2017, 17, 1542.	3.8	13
23	The Use of Laboratory Spectroscopy and Optical Remote Sensing for Estimating Soil Properties. , 2010, , 67-85.		9
24	PANTHEON: SCADA for Precision Agriculture. , 2020, , 1-38.		0