Henning Buddenbaum

List of Publications by Year
in descending order

47	2,146	361413	243625
papers	citations	20 h-index	44 g-index

49	49	49	2881
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The EnMAP Spaceborne Imaging Spectroscopy Mission for Earth Observation. Remote Sensing, 2015, 7, 8830-8857.	4.0	529
2	Estimating the soil clay content and organic matter by means of different calibration methods of vis-NIR diffuse reflectance spectroscopy. Soil and Tillage Research, 2016, 155, 510-522.	5.6	204
3	Classification of coniferous tree species and age classes using hyperspectral data and geostatistical methods. International Journal of Remote Sensing, 2005, 26, 5453-5465.	2.9	150
4	Comparison of Feature Reduction Algorithms for Classifying Tree Species With Hyperspectral Data on Three Central European Test Sites. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2547-2561.	4.9	140
5	Modeling and Mapping of Soil Salinity with Reflectance Spectroscopy and Landsat Data Using Two Quantitative Methods (PLSR and MARS). Remote Sensing, 2014, 6, 10813-10834.	4.0	121
6	Retrieval of chlorophyll and nitrogen in Norway spruce (Picea abies L. Karst.) using imaging spectroscopy. International Journal of Applied Earth Observation and Geoinformation, 2010, 12, 17-26.	2.8	119
7	The Effects of Spectral Pretreatments on Chemometric Analyses of Soil Profiles Using Laboratory Imaging Spectroscopy. Applied and Environmental Soil Science, 2012, 2012, 1-12.	1.7	69
8	Laboratory imaging spectroscopy of a stagnic Luvisol profile â€" High resolution soil characterisation, classification and mapping of elemental concentrations. Geoderma, 2013, 195-196, 122-132.	5.1	66
9	Digital Mapping of Soil Properties Using Multivariate Statistical Analysis and ASTER Data in an Arid Region. Remote Sensing, 2015, 7, 1181-1205.	4.0	63
10	Estimation of soil salinity using three quantitative methods based on visible and near-infrared reflectance spectroscopy:Âa case study from Egypt. Arabian Journal of Geosciences, 2015, 8, 5127-5140.	1.3	59
11	The Potential of EnMAP and Sentinel-2 Data for Detecting Drought Stress Phenomena in Deciduous Forest Communities. Remote Sensing, 2015, 7, 14227-14258.	4.0	55
12	Microscale soil structures foster organic matter stabilization in permafrost soils. Geoderma, 2017, 293, 44-53.	5.1	54
13	An efficient approach to standardizing the processing of hemispherical images for the estimation of forest structural attributes. Agricultural and Forest Meteorology, 2012, 160, 1-13.	4.8	47
14	Fusion of full-waveform lidar and imaging spectroscopy remote sensing data for the characterization of forest stands. International Journal of Remote Sensing, 2013, 34, 4511-4524.	2.9	39
15	Imaging Spectroscopy of Forest Ecosystems: Perspectives for the Use of Space-borne Hyperspectral Earth Observation Systems. Surveys in Geophysics, 2019, 40, 553-588.	4.6	38
16	Fine spatial resolution mapping of soil organic matter quality in a Histosol profile. European Journal of Soil Science, 2014, 65, 827-839.	3.9	36
17	PROSPECT Inversions of Leaf Laboratory Imaging Spectroscopy â€“ a Comparison of Spectral Range and Inversion Technique Influences. Photogrammetrie, Fernerkundung, Geoinformation, 2015, 2015, 231-240.	1.2	36
18	Variability and Uncertainty Challenges in Scaling Imaging Spectroscopy Retrievals and Validations from Leaves Up to Vegetation Canopies. Surveys in Geophysics, 2019, 40, 631-656.	4.6	35

#	Article	IF	Citations
19	Satellite-Based Derivation of High-Resolution Forest Information Layers for Operational Forest Management. Forests, 2015, 6, 1982-2013.	2.1	32
20	Using VNIR and SWIR field imaging spectroscopy for drought stress monitoring of beech seedlings. International Journal of Remote Sensing, 2015, 36, 4590-4605.	2.9	23
21	Field Imaging Spectroscopy of Beech Seedlings under Dryness Stress. Remote Sensing, 2012, 4, 3721-3740.	4.0	19
22	Using hyperspectral plant traits linked to photosynthetic efficiency to assess N and P partition. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 169, 406-420.	11.1	19
23	Measuring Stress Reactions of Beech Seedlings with PRI, Fluorescence, Temperatures and Emissivity from VNIR and Thermal Field Imaging Spectroscopy. European Journal of Remote Sensing, 2015, 48, 263-282.	3.5	16
24	Monitoring biochemical limitations to photosynthesis in N and P-limited radiata pine using plant functional traits quantified from hyperspectral imagery. Remote Sensing of Environment, 2020, 248, 112003.	11.0	16
25	Assessing the Suitability of Future Multi- and Hyperspectral Satellite Systems for Mapping the Spatial Distribution of Norway Spruce Timber Volume. Remote Sensing, 2015, 7, 12009-12040.	4.0	15
26	Short communication: Laboratory imaging spectroscopy of soil profiles. Journal of Spectral Imaging, 0, , .	0.0	12
27	Combining canopy height and tree species map information for large-scale timber volume estimations under strong heterogeneity of auxiliary data and variable sample plot sizes. European Journal of Forest Research, 2018, 137, 489-505.	2.5	11
28	Using Landsat and Sentinel-2 Data for the Generation of Continuously Updated Forest Type Information Layers in a Cross-Border Region. Remote Sensing, 2019, 11, 2337.	4.0	11
29	Monitoring of Canopy Stress Symptoms in New Zealand Kauri Trees Analysed with AISA Hyperspectral Data. Remote Sensing, 2020, 12, 926.	4.0	11
30	Long-term effects of water stress on hyperspectral remote sensing indicators in young radiata pine. Forest Ecology and Management, 2021, 502, 119707.	3.2	11
31	VNIR/SWIR Laboratory Imaging Spectroscopy for Wall-to-Wall Mapping of Elemental Concentrations in Soil Cores. Photogrammetrie, Fernerkundung, Geoinformation, 2015, 2015, 423-435.	1.2	10
32	Preprocessing Ground-Based Visible/Near Infrared Imaging Spectroscopy Data Affected by Smile Effects. Sensors, 2019, 19, 1543.	3.8	10
33	Data synergy between leaf area index and clumping index Earth Observation products using photon recollision probability theory. Remote Sensing of Environment, 2018, 215, 1-6.	11.0	9
34	Hyperspectral VNIR-spectroscopy and imagery as a tool for monitoring herbicide damage in wilding conifers. Biological Invasions, 2019, 21, 3395-3413.	2.4	8
35	Stress Detection in New Zealand Kauri Canopies with WorldView-2 Satellite and LiDAR Data. Remote Sensing, 2020, 12, 1906.	4.0	7
36	Quantitative mapping and spectroscopic characterization of particulate organic matter fractions in soil profiles with imaging VisNIR spectroscopy. Scientific Reports, 2021, 11, 16725.	3.3	7

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37	An Empirical Assessment of Angular Dependency for RedEdge-M in Sloped Terrain Viticulture. Remote Sensing, 2019, 11, 2561.	4.0	5
38	Permafrost soil complexity evaluated by laboratory imaging Visâ€NIR spectroscopy. European Journal of Soil Science, 2021, 72, 114-119.	3.9	5
39	Detection of New Zealand Kauri Trees with AISA Aerial Hyperspectral Data for Use in Multispectral Monitoring. Remote Sensing, 2019, 11, 2865.	4.0	4
40	A review of the combination of spectral and geometric modelling for the application in forest remote sensing. Photogrammetrie, Fernerkundung, Geoinformation, 2010, 2010, 253-265.	1.2	3
41	Modelling of the adsorption of urea herbicides by tropical soils with an Adaptiveâ€Neuralâ€based Fuzzy Inference System. Journal of Chemometrics, 2021, 35, e3335.	1.3	3
42	A BiomeBGC-based Evaluation of Dryness Stress of Central European Forests. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 345-351.	0.2	3
43	Abbildende und nichtabbildende GelÃindespektrometrie zur Untersuchung von StressphÃnomenen an Buchenpflanzen The use of imaging and non-imaging Spectroscopy for the determination of stress phenomena of beech trees. Photogrammetrie, Fernerkundung, Geoinformation, 2014, 2014, 17-26.	1.2	2
44	Visualising mineralogical heterogeneities and texture in a mudstone concretion using hyperspectral imaging. Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften, 2017, 168, 403-414.	0.4	2
45	The use of imaging and non-imaging Spectroscopy for the determination of stress phenomena of beech trees. Photogrammetrie, Fernerkundung, Geoinformation, 2014, 2014, 17-26.	1.2	1
46	Inverting Procosine-D For Very High Spatial and Temporal Resolution Retrieval of Foliar Biochemistry. , 2018, , .		0
47	Application of Photon Recollision Probability Theory for Compatibility Check Between Foliage Clumping and Leaf Area Index Products Obtained from Earth Observation Data. , 2018, , .		0