

Sabine Chabrilat

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1725137/publications.pdf>

Version: 2024-02-01

70
papers

3,056
citations

201674

27
h-index

189892

50
g-index

81
all docs

81
docs citations

81
times ranked

3500
citing authors

#	ARTICLE	IF	CITATIONS
1	The EnMAP Spaceborne Imaging Spectroscopy Mission for Earth Observation. <i>Remote Sensing</i> , 2015, 7, 8830-8857.	4.0	529
2	Using Imaging Spectroscopy to study soil properties. <i>Remote Sensing of Environment</i> , 2009, 113, S38-S55.	11.0	422
3	Use of hyperspectral images in the identification and mapping of expansive clay soils and the role of spatial resolution. <i>Remote Sensing of Environment</i> , 2002, 82, 431-445.	11.0	189
4	Evaluating the capability of the Sentinel 2 data for soil organic carbon prediction in croplands. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 147, 267-282.	11.1	164
5	Imaging Spectrometry for Soil Applications. <i>Advances in Agronomy</i> , 2008, 97, 321-392.	5.2	115
6	Surface soil moisture quantification models from reflectance data under field conditions. <i>International Journal of Remote Sensing</i> , 2008, 29, 3-29.	2.9	113
7	Imaging Spectroscopy for Soil Mapping and Monitoring. <i>Surveys in Geophysics</i> , 2019, 40, 361-399.	4.6	102
8	Recent trends and remaining challenges for optical remote sensing of Arctic tundra vegetation: A review and outlook. <i>Remote Sensing of Environment</i> , 2020, 246, 111872.	11.0	82
9	Prediction of Common Surface Soil Properties Based on Vis-NIR Airborne and Simulated EnMAP Imaging Spectroscopy Data: Prediction Accuracy and Influence of Spatial Resolution. <i>Remote Sensing</i> , 2016, 8, 613.	4.0	73
10	Soil Organic Carbon Mapping Using LUCAS Topsoil Database and Sentinel-2 Data: An Approach to Reduce Soil Moisture and Crop Residue Effects. <i>Remote Sensing</i> , 2019, 11, 2121.	4.0	67
11	Soil Organic Carbon Estimation in Croplands by Hyperspectral Remote APEX Data Using the LUCAS Topsoil Database. <i>Remote Sensing</i> , 2018, 10, 153.	4.0	65
12	Spatiotemporal variations of soil surface roughness from in-situ laser scanning. <i>Catena</i> , 2009, 79, 128-139.	5.0	64
13	Free Iron Oxide Determination in Mediterranean Soils using Diffuse Reflectance Spectroscopy. <i>Soil Science Society of America Journal</i> , 2009, 73, 72-81.	2.2	62
14	Spectral characterization of periglacial surfaces and geomorphological units in the Arctic Lena Delta using field spectrometry and remote sensing. <i>Remote Sensing of Environment</i> , 2009, 113, 1220-1235.	11.0	51
15	Multispectral Models from Bare Soil Composites for Mapping Topsoil Properties over Europe. <i>Remote Sensing</i> , 2020, 12, 1369.	4.0	51
16	Advantages using the thermal infrared (TIR) to detect and quantify semi-arid soil properties. <i>Remote Sensing of Environment</i> , 2015, 163, 296-311.	11.0	47
17	Estimation of soil organic carbon in arable soil in Belgium and Luxembourg with the LUCAS topsoil database. <i>European Journal of Soil Science</i> , 2018, 69, 592-603.	3.9	47
18	Linking Remote Sensing and Geodiversity and Their Traits Relevant to Biodiversityâ€™Part I: Soil Characteristics. <i>Remote Sensing</i> , 2019, 11, 2356.	4.0	46

#	ARTICLE	IF	CITATIONS
19	Field reflectance spectrometry for detection of swelling clays at construction sites. <i>Field Analytical Chemistry and Technology</i> , 2001, 5, 143-155.	0.8	40
20	Surface soil moisture quantification and validation based on hyperspectral data and field measurements. <i>Journal of Applied Remote Sensing</i> , 2008, 2, 023552.	1.3	40
21	Characterization of Soil Erosion Indicators Using Hyperspectral Data From a Mediterranean Rainfed Cultivated Region. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 845-860.	4.9	39
22	A remote sensing adapted approach for soil organic carbon prediction based on the spectrally clustered LUCAS soil database. <i>Geoderma</i> , 2019, 353, 297-307.	5.1	39
23	Applicability of the Thermal Infrared Spectral Region for the Prediction of Soil Properties Across Semi-Arid Agricultural Landscapes. <i>Remote Sensing</i> , 2012, 4, 3265-3286.	4.0	38
24	Ronda peridotite massif: Methodology for its geological mapping and lithological discrimination from airborne hyperspectral data. <i>International Journal of Remote Sensing</i> , 2000, 21, 2363-2388.	2.9	37
25	EnMAP A Hyperspectral Sensor for Environmental Mapping and Analysis. , 2006, , .		37
26	Variability in precipitation, temperature and river runoff in W Central Asia during the past ~2000yrs. <i>Global and Planetary Change</i> , 2011, 76, 95-104.	3.5	32
27	Quantitative Soil Spectroscopy. <i>Applied and Environmental Soil Science</i> , 2013, 2013, 1-3.	1.7	29
28	Evaluating the detection limit of organic matter using point and imaging spectroscopy. <i>Geoderma</i> , 2018, 321, 100-109.	5.1	28
29	Earth Observation Data-Driven Cropland Soil Monitoring: A Review. <i>Remote Sensing</i> , 2021, 13, 4439.	4.0	28
30	Spectral properties and sources of variability of ecosystem components in a Mediterranean semiarid environment. <i>Journal of Arid Environments</i> , 2010, 74, 1041-1051.	2.4	27
31	Overview: Integrative and Comprehensive Understanding on Polar Environments (iCUPE) â€“ concept and initial results. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8551-8592.	4.9	26
32	Sampling Strategies for Soil Property Mapping Using Multispectral Sentinel-2 and Hyperspectral EnMAP Satellite Data. <i>Remote Sensing</i> , 2019, 11, 309.	4.0	25
33	visâ€™NIR and XRF Data Fusion and Feature Selection to Estimate Potentially Toxic Elements in Soil. <i>Sensors</i> , 2021, 21, 2386.	3.8	23
34	Analyses of Recent Sediment Surface Dynamic of a Namibian Kalahari Salt Pan Based on Multitemporal Landsat and Hyperspectral Hyperion Data. <i>Remote Sensing</i> , 2017, 9, 170.	4.0	22
35	Minimizing soil moisture variations in multi-temporal airborne imaging spectrometer data for digital soil mapping. <i>Geoderma</i> , 2019, 337, 607-621.	5.1	19
36	Mapping Soil Organic Carbon for Airborne and Simulated EnMAP Imagery Using the LUCAS Soil Database and a Local PLSR. <i>Remote Sensing</i> , 2020, 12, 3451.	4.0	19

#	ARTICLE	IF	CITATIONS
37	Spatiotemporal shoreline dynamics of Namibian coastal lagoons derived by a dense remote sensing time series approach. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 68, 262-271.	2.8	18
38	Soil organic carbon estimation using VNIR-SWIR spectroscopy: The effect of multiple sensors and scanning conditions. <i>Soil and Tillage Research</i> , 2021, 211, 105017.	5.6	16
39	A Phenological Approach to Spectral Differentiation of Low-Arctic Tundra Vegetation Communities, North Slope, Alaska. <i>Remote Sensing</i> , 2017, 9, 1200.	4.0	14
40	Optical Remote Sensing for Soil Mapping and Monitoring. , 2017, , 87-125.		14
41	Preparing a soil spectral library using the Internal Soil Standard (ISS) method: Influence of extreme different humidity laboratory conditions. <i>Geoderma</i> , 2019, 355, 113855.	5.1	13
42	Leveraging the application of Earth observation data for mapping cropland soils in Brazil. <i>Geoderma</i> , 2021, 396, 115042.	5.1	12
43	Monitoring pigment-driven vegetation changes in a low-Arctic tundra ecosystem using digital cameras. <i>Ecosphere</i> , 2018, 9, e02123.	2.2	11
44	The Brazilian Soil Spectral Service (BraSpecS): A User-Friendly System for Global Soil Spectra Communication. <i>Remote Sensing</i> , 2022, 14, 740.	4.0	11
45	Imaging Spectroscopy for the Detection, Assessment and Monitoring of Natural and Anthropogenic Hazards. <i>Surveys in Geophysics</i> , 2019, 40, 431-470.	4.6	10
46	Analyses of Namibian Seasonal Salt Pan Crust Dynamics and Climatic Drivers Using Landsat 8 Time-Series and Ground Data. <i>Remote Sensing</i> , 2020, 12, 474.	4.0	10
47	Estimating heavy metal concentrations in Technosols with reflectance spectroscopy. <i>Geoderma</i> , 2022, 406, 115512.	5.1	9
48	Development of land degradation spectral indices in a semi-arid Mediterranean ecosystem. , 2004, 5574, 235.		8
49	Detecting soil erosion in semi-arid Mediterranean environments using simulated EnMAP data. <i>Geoderma</i> , 2019, 340, 164-174.	5.1	8
50	Detection and mapping of shrink-swell clays in SW France, using ASTER imagery. <i>Geological Society Special Publication</i> , 2007, 283, 117-124.	1.3	7
51	Mineralogy-Swelling Potential Relationships for Expansive Shales. , 2000, , 361.		6
52	Potential of hyperspectral imagery for the spatial assessment of soil erosion stages in agricultural semi-arid Spain at different scales. , 2014, , .		6
53	Assessment of the 1.75- μm absorption feature for gypsum estimation using laboratory, air- and spaceborne hyperspectral sensors. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 77, 69-83.	2.8	5
54	Research opportunities for studying land degradation with spectroscopic techniques. , 2003, , .		4

#	ARTICLE	IF	CITATIONS
55	Spectral characterisation of land surface composition to determine soil erosion within semiarid rainfed cultivated areas. , 2012, , .		4
56	Characterization of Soil Properties Using Reflectance Spectroscopy. , 2018, , 187-247.		4
57	STATUS OF THE IMAGING SPECTROSCOPY MISSION ENMAP WITH RADIOMETRIC CALIBRATION AND CORRECTION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-1-2020, 41-47.	0.0	4
58	Prediction of common surface soil properties using airborne and simulated EnMAP hyperspectral images: Impact of soil algorithm and sensor characteristic. , 2014, , .		3
59	The Enmap German Spaceborne Imaging Spectroscopy Mission: Update and Highlights of Recent Preparatory Activities. , 2020, , .		3
60	EUFAR goes hyperspectral in FP7. , 2009, , .		2
61	High-Spectral Resolution Remote Sensing of Soil Organic Carbon Dynamics. Remote Sensing, 2021, 13, 1293.	4.0	2
62	The EnMAP Satellite "Data Product Validation Activities. , 2021, , .		2
63	EnMAP: THE GERMAN SPACEBORNE IMAGING SPECTROSCOPY MISSION. , 2021, , .		2
64	SAND - a hyperspectral sensor for the analysis of dryland degradation. , 0, , .		1
65	Isograde mapping and mineral identification on the island of Naxos, Greece, using DAIS 7915 hyperspectral data. , 2003, 4886, 115.		1
66	Mapping Crop Variability Related to Soil Quality and Crop Stress Within Rainfed Mediterranean Agroecosystems Using Hyperspectral Data. , 2018, , .		1
67	The Enmap German Imaging Spectroscopy Mission: Status and Summary of Preparatory Activities. , 2018, , .		1
68	Field and Imaging Spectrometry for Identification and Mapping of Expansive Soils. , 2002, , 87-109.		1
69	Remote sensing of expansive soils. , 2006, , .		1
70	The EnMAP Satellite - Mission Status and Science Preparatory Activities. , 2021, , .		1