

Benoit Rivard

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11528187/publications.pdf>

Version: 2024-02-01

60
papers

2,310
citations

236833

25
h-index

214721

47
g-index

61
all docs

61
docs citations

61
times ranked

2495
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of spectral features in the longwave infrared (LWIR) spectra of leaves for the discrimination of tropical dry forest tree species. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 97, 102286.	1.4	4
2	Shortwave infrared hyperspectral imaging as a novel method to elucidate multi-phase dolomitization, recrystallization, and cementation in carbonate sedimentary rocks. <i>Scientific Reports</i> , 2021, 11, 21732.	1.6	8
3	Incorporating band selection in the spatial selection of spectral endmembers. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 84, 101957.	1.4	2
4	Using visible-near-infrared spectroscopy to classify lichens at a Neotropical Dry Forest. <i>Ecological Indicators</i> , 2020, 111, 105999.	2.6	3
5	Hyperspectral Characteristics of Oil Sand, Part 1: Prediction of Processability and Froth Quality from Measurements of Ore. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 1138.	0.8	2
6	Characterization of Mineralogy in the Highland Valley Porphyry Cu District Using Hyperspectral Imaging, and Potential Applications. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 473.	0.8	11
7	Using hyperspectral imaging to vector towards mineralization at the Canadian Malartic gold deposit, Québec, Canada. <i>Ore Geology Reviews</i> , 2019, 111, 102945.	1.1	25
8	Monitoring tailings flocculation performance using hyperspectral imagery. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2465-2471.	0.9	2
9	Hyperspectral band selection using the N-dimensional Spectral Solid Angle method for the improved discrimination of spectrally similar targets. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 79, 35-47.	1.4	9
10	The long-wave infrared (8-12 μ m) spectral features of selected rare earth element-bearing carbonate, phosphate and silicate minerals. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 76, 77-83.	1.4	6
11	Estimating the Mg# and AlVI content of biotite and chlorite from shortwave infrared reflectance spectroscopy: Predictive equations and recommendations for their use. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 68, 116-126.	1.4	20
12	Mapping alteration using imagery from the Tiangong-1 hyperspectral spaceborne system: Example for the Jintanzi gold province, China. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 64, 275-286.	1.4	16
13	Comparison of lithological mapping results from airborne hyperspectral VNIR-SWIR, LWIR and combined data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 64, 340-353.	1.4	40
14	Visible and short-wave infrared reflectance spectroscopy of selected REE-bearing silicate minerals. <i>American Mineralogist</i> , 2018, 103, 927-943.	0.9	13
15	Hierarchical Band Selection Using the N-Dimensional Solid Spectral Angle Method to Address Inter- and Intra- Class Spectral Variability. , 2018, , .		0
16	Discrimination of liana and tree leaves from a Neotropical Dry Forest using visible-near infrared and longwave infrared reflectance spectra. <i>Remote Sensing of Environment</i> , 2018, 219, 135-144.	4.6	26
17	Shortwave infrared (1.0-2.5 μ m) hyperspectral imaging of the Athabasca West Grand Rapids Formation oil sands. <i>AAPG Bulletin</i> , 2018, 102, 1671-1683.	0.7	4
18	Differences in Leaf Temperature between Lianas and Trees in the Neotropical Canopy. <i>Forests</i> , 2018, 9, 307.	0.9	6

#	ARTICLE	IF	CITATIONS
19	Predicting the abundance of clays and quartz in oil sands using hyperspectral measurements. International Journal of Applied Earth Observation and Geoinformation, 2017, 59, 1-8.	1.4	11
20	Estimation of methylene blue index in oil sands tailings using hyperspectral data. Canadian Journal of Chemical Engineering, 2017, 95, 92-99.	0.9	5
21	Mapping alteration using imagery from the Tiangong-1 hyperspectral spaceborne system: Example for the Jintanzi gold province, China. International Journal of Applied Earth Observation and Geoinformation, 2017, 59, 31-41.	1.4	9
22	Modeling and assessment of wavelength displacements of characteristic absorption features of common rock forming minerals encrusted by lichens. Remote Sensing of Environment, 2017, 199, 78-92.	4.6	15
23	Reflectance Spectroscopy and Hyperspectral Imaging of Sapphire-Bearing Marble From the Beluga Occurrence, Baffin Island, Nunavut. Canadian Mineralogist, 2017, 55, 787-797.	0.3	8
24	Hyperspectral imaging as an aid for facies analysis in massive-appearing sediments: a case study from the middle McMurray Formation. Bulletin of Canadian Petroleum Geology, 2017, 65, 262-278.	0.3	12
25	Visible and short-wave infrared reflectance spectroscopy of REE phosphate minerals. American Mineralogist, 2016, 101, 2264-2278.	0.9	23
26	Prediction of water content and normalized evaporation from oil sands soft tailings surface using hyperspectral observations. Canadian Geotechnical Journal, 2016, 53, 1742-1750.	1.4	7
27	Shortwave Infrared Hyperspectral Imaging: A Novel Method For Enhancing the Visibility of Sedimentary And Biogenic Features In Oil-Saturated Core. Journal of Sedimentary Research, 2016, 86, 830-842.	0.8	16
28	A novel approach for endmember bundle extraction using spectral space splitting. , 2015, , .		1
29	Patterns of Leaf Biochemical and Structural Properties of Cerrado Life Forms: Implications for Remote Sensing. PLoS ONE, 2015, 10, e0117659.	1.1	44
30	Hyperspectral imaging for the determination of bitumen content in Athabasca oil sands core samples. AAPG Bulletin, 2015, 99, 1245-1259.	0.7	27
31	Mapping tropical dry forest succession using multiple criteria spectral mixture analysis. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 109, 17-29.	4.9	30
32	Mapping Ni-Cu (PGE) bearing ultramafic rocks and associated gossans with airborne and simulated EnMAP satellite hyperspectral imagery, Nunavik, Canada. , 2014, , .		1
33	Rare earth element ore grade estimation of mineralized drill core from hyperspectral imaging spectroscopy. , 2014, , .		8
34	Visible and short-wave infrared reflectance spectroscopy of REE fluorocarbonates. American Mineralogist, 2014, 99, 1335-1346.	0.9	39
35	Deriving leaf mass per area (LMA) from foliar reflectance across a variety of plant species using continuous wavelet analysis. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 87, 28-38.	4.9	101
36	Mapping of NiCu“PGE ore hosting ultramafic rocks using airborne and simulated EnMAP hyperspectral imagery, Nunavik, Canada. Remote Sensing of Environment, 2014, 152, 302-317.	4.6	51

#	ARTICLE	IF	CITATIONS
37	Predicting leaf gravimetric water content from foliar reflectance across a range of plant species using continuous wavelet analysis. <i>Journal of Plant Physiology</i> , 2012, 169, 1134-1142.	1.6	86
38	LIDAR remote sensing for secondary Tropical Dry Forest identification. <i>Remote Sensing of Environment</i> , 2012, 121, 132-143.	4.6	33
39	Spatial Sub-Sampling Using Local Endmembers for Adapting OSP and SSEE for Large-Scale Hyperspectral Surveys. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 183-195.	2.3	14
40	Estimation of the Distribution of <i>Tabebuia guayacan</i> (Bignoniaceae) Using High-Resolution Remote Sensing Imagery. <i>Sensors</i> , 2011, 11, 3831-3851.	2.1	62
41	Delineation of secondary succession mechanisms for tropical dry forests using LiDAR. <i>Remote Sensing of Environment</i> , 2011, 115, 2217-2231.	4.6	28
42	Spectroscopic determination of leaf water content using continuous wavelet analysis. , 2010, , .		1
43	Differences in leaf traits, leaf internal structure, and spectral reflectance between two communities of lianas and trees: Implications for remote sensing in tropical environments. <i>Remote Sensing of Environment</i> , 2009, 113, 2076-2088.	4.6	110
44	Species Classification of Tropical Tree Leaf Reflectance and Dependence on Selection of Spectral Bands. , 2008, , 141-159.		36
45	The Successive Projection Algorithm (SPA), an Algorithm with a Spatial Constraint for the Automatic Search of Endmembers in Hyperspectral Data. <i>Sensors</i> , 2008, 8, 1321-1342.	2.1	62
46	Intra- and inter-class spectral variability of tropical tree species at La Selva, Costa Rica: Implications for species identification using HYDICE imagery. <i>Remote Sensing of Environment</i> , 2006, 105, 129-141.	4.6	181
47	Experimental calibration of lake-sediment spectral reflectance to chlorophyll a concentrations: methodology and paleolimnological validation. <i>Journal of Paleolimnology</i> , 2006, 36, 91-100.	0.8	120
48	Iterative Spectral Unmixing for Optimizing Per-Pixel Endmember Sets. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 3725-3736.	2.7	156
49	Variability in leaf optical properties of Mesoamerican trees and the potential for species classification. <i>American Journal of Botany</i> , 2006, 93, 517-530.	0.8	162
50	Quantifying total sulfide content of cores and cut-rock surfaces using thermal infrared reflectance. <i>Geophysics</i> , 2006, 71, M1-M9.	1.4	4
51	Dynamics in landscape structure and composition for the Chorotega region, Costa Rica from 1960 to 2000. <i>Agriculture, Ecosystems and Environment</i> , 2005, 106, 27-39.	2.5	125
52	Effects of Season and Successional Stage on Leaf Area Index and Spectral Vegetation Indices in Three Mesoamerican Tropical Dry Forests1. <i>Biotropica</i> , 2005, 37, 486-496.	0.8	80
53	Secondary Forest Detection in a Neotropical Dry Forest Landscape Using Landsat 7 ETM+ and IKONOS Imagery1. <i>Biotropica</i> , 2005, 37, 497-507.	0.8	90
54	Spectral unmixing of normalized reflectance data for the deconvolution of lichen and rock mixtures. <i>Remote Sensing of Environment</i> , 2005, 95, 57-66.	4.6	61

#	ARTICLE	IF	CITATIONS
55	Inferring sedimentary chlorophyll concentrations with reflectance spectroscopy: a novel approach to reconstructing historical changes in the trophic status of mountain lakes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2005, 62, 1067-1078.	0.7	53
56	Recent primary production increases in arctic lakes. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	146
57	Laboratory reflectance spectra of hydrothermally altered carbonate facies, Pine Point mining camp, NWT, Canada. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2003, 3, 369-379.	0.5	4
58	Spectral properties of foliose and crustose lichens based on laboratory experiments. <i>Remote Sensing of Environment</i> , 2002, 82, 389-396.	4.6	56
59	Ore detection and grade estimation in the Sudbury mines using thermal infrared reflectance spectroscopy. <i>Geophysics</i> , 2001, 66, 1691-1698.	1.4	6
60	Precise emissivity of rock samples. <i>Remote Sensing of Environment</i> , 1995, 54, 152-160.	4.6	18