

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	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
2	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
3	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
4	Recent primary production increases in arctic lakes. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	146
5	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
6	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
7	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
8	Deriving leaf mass per area (LMA) from foliar reflectance across a variety of plant species using continuous wavelet analysis. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 87, 28-38.	4.9	101
9	Secondary Forest Detection in a Neotropical Dry Forest Landscape Using Landsat 7 ETM+ and IKONOS Imagery ¹ . <i>Biotropica</i> , 2005, 37, 497-507.	0.8	90
10	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
11	Effects of Season and Successional Stage on Leaf Area Index and Spectral Vegetation Indices in Three Mesoamerican Tropical Dry Forests ¹ . <i>Biotropica</i> , 2005, 37, 486-496.	0.8	80
12	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
13	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
14	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
15	Spectral properties of foliose and crustose lichens based on laboratory experiments. <i>Remote Sensing of Environment</i> , 2002, 82, 389-396.	4.6	56
16	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
17	Mapping of NiCu ²⁺ PGE ore hosting ultramafic rocks using airborne and simulated EnMAP hyperspectral imagery, Nunavik, Canada. <i>Remote Sensing of Environment</i> , 2014, 152, 302-317.	4.6	51
18	Patterns of Leaf Biochemical and Structural Properties of Cerrado Life Forms: Implications for Remote Sensing. <i>PLoS ONE</i> , 2015, 10, e0117659.	1.1	44

#	ARTICLE	IF	CITATIONS
19	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
20	Visible and short-wave infrared reflectance spectroscopy of REE fluorocarbonates. <i>American Mineralogist</i> , 2014, 99, 1335-1346.	0.9	39
21	Species Classification of Tropical Tree Leaf Reflectance and Dependence on Selection of Spectral Bands. , 2008, , 141-159.		36
22	LIDAR remote sensing for secondary Tropical Dry Forest identification. <i>Remote Sensing of Environment</i> , 2012, 121, 132-143.	4.6	33
23	Mapping tropical dry forest succession using multiple criteria spectral mixture analysis. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 109, 17-29.	4.9	30
24	Delineation of secondary succession mechanisms for tropical dry forests using LiDAR. <i>Remote Sensing of Environment</i> , 2011, 115, 2217-2231.	4.6	28
25	Hyperspectral imaging for the determination of bitumen content in Athabasca oil sands core samples. <i>AAPG Bulletin</i> , 2015, 99, 1245-1259.	0.7	27
26	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
27	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
28	Visible and short-wave infrared reflectance spectroscopy of REE phosphate minerals. <i>American Mineralogist</i> , 2016, 101, 2264-2278.	0.9	23
29	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
30	Precise emissivity of rock samples. <i>Remote Sensing of Environment</i> , 1995, 54, 152-160.	4.6	18
31	Shortwave Infrared Hyperspectral Imaging: A Novel Method For Enhancing the Visibility of Sedimentary And Biogenic Features In Oil-Saturated Core. <i>Journal of Sedimentary Research</i> , 2016, 86, 830-842.	0.8	16
32	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
33	Modeling and assessment of wavelength displacements of characteristic absorption features of common rock forming minerals encrusted by lichens. <i>Remote Sensing of Environment</i> , 2017, 199, 78-92.	4.6	15
34	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
35	Visible and short-wave infrared reflectance spectroscopy of selected REE-bearing silicate minerals. <i>American Mineralogist</i> , 2018, 103, 927-943.	0.9	13
36	Hyperspectral imaging as an aid for facies analysis in massive-appearing sediments: a case study from the middle McMurray Formation. <i>Bulletin of Canadian Petroleum Geology</i> , 2017, 65, 262-278.	0.3	12

#	ARTICLE	IF	CITATIONS
37	Predicting the abundance of clays and quartz in oil sands using hyperspectral measurements. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2017, 59, 1-8.	1.4	11
38	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
39	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> , 2017, 59, 31-41.	1.4	9
40	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
41	Rare earth element ore grade estimation of mineralized drill core from hyperspectral imaging spectroscopy. , 2014, , .		8
42	Reflectance Spectroscopy and Hyperspectral Imaging of Sapphire-Bearing Marble From the Beluga Occurrence, Baffin Island, Nunavut. <i>Canadian Mineralogist</i> , 2017, 55, 787-797.	0.3	8
43	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
44	Prediction of water content and normalized evaporation from oil sands soft tailings surface using hyperspectral observations. <i>Canadian Geotechnical Journal</i> , 2016, 53, 1742-1750.	1.4	7
45	Ore detection and grade estimation in the Sudbury mines using thermal infrared reflectance spectroscopy. <i>Geophysics</i> , 2001, 66, 1691-1698.	1.4	6
46	Differences in Leaf Temperature between Lianas and Trees in the Neotropical Canopy. <i>Forests</i> , 2018, 9, 307.	0.9	6
47	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
48	Estimation of methylene blue index in oil sands tailings using hyperspectral data. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 92-99.	0.9	5
49	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
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	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
52	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
53	Using visible-near-infrared spectroscopy to classify lichens at a Neotropical Dry Forest. <i>Ecological Indicators</i> , 2020, 111, 105999.	2.6	3
54	Monitoring tailings flocculation performance using hyperspectral imagery. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2465-2471.	0.9	2

#	ARTICLE	IF	CITATIONS
55	Incorporating band selection in the spatial selection of spectral endmembers. International Journal of Applied Earth Observation and Geoinformation, 2020, 84, 101957.	1.4	2
56	Hyperspectral Characteristics of Oil Sand, Part 1: Prediction of Processability and Froth Quality from Measurements of Ore. Minerals (Basel, Switzerland), 2020, 10, 1138.	0.8	2
57	Spectroscopic determination of leaf water content using continuous wavelet analysis. , 2010, , .		1
58	Mapping Ni-Cu (PGE) bearing ultramafic rocks and associated gossans with airborne and simulated EnMAP satellite hyperspectral imagery, Nunavik, Canada. , 2014, , .		1
59	A novel approach for endmember bundle extraction using spectral space splitting. , 2015, , .		1
60	Hierarchical Band Selection Using the N-Dimensional Solid Spectral Angle Method to Address Inter- and Intra- Class Spectral Variability. , 2018, , .		0