Jean Baptiste FÃ©ret

List of Publications by Year
in descending order

59 papers	**4,481** citations	186265 **28** h-index	197818 **49** g-index
61 all docs	**61** docs citations	**61** times ranked	**4450** citing authors

#	Article	IF	Citations
1	Spectral diversity allows remote detection of the rehabilitation status in an Amazonian iron mining complex. International Journal of Applied Earth Observation and Geoinformation, 2022, 106, 102653.	2.8	4
2	Monitoring vegetation dynamics with open earth observation tools: the case of fire-modulated savanna to forest transitions in Central Africa. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 142-156.	11.1	12
3	Topsoil clay content mapping in croplands from Sentinel-2 data: Influence of atmospheric correction methods across a season time series. Geoderma, 2022, 423, 115959.	5.1	5
4	Stability in time and consistency between atmospheric corrections: Assessing the reliability of Sentinel-2 products for biodiversity monitoring in tropical forests. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102884.	1.9	0
5	From local spectral species to global spectral communities: A benchmark for ecosystem diversity estimate by remote sensing. Ecological Informatics, 2021, 61, 101195.	5.2	36
6	Spectral subdomains and prior estimation of leaf structure improves PROSPECT inversion on reflectance or transmittance alone. Remote Sensing of Environment, 2021, 252, 112176.	11.0	32
7	PROSPECT-PRO for estimating content of nitrogen-containing leaf proteins and other carbon-based constituents. Remote Sensing of Environment, 2021, 252, 112173.	11.0	115
8	Which optical traits enable an estimation of tree species diversity based on the Spectral Variation Hypothesis?. Applied Vegetation Science, 2021, 24, e12586.	1.9	20
9	Simulating Imaging Spectroscopy in Tropical Forest with 3D Radiative Transfer Modeling. Remote Sensing, 2021, 13, 2120.	4.0	7
10	A Remote Sensing Approach to Understanding Patterns of Secondary Succession in Tropical Forest. Remote Sensing, 2021, 13, 2148.	4.0	8
11	Towards scalable estimation of plant functional diversity from Sentinel-2: In-situ validation in a heterogeneous (semi-)natural landscape. Remote Sensing of Environment, 2021, 262, 112505.	11.0	27
12	Monitoring restored tropical forest diversity and structure through UAV-borne hyperspectral and lidar fusion. Remote Sensing of Environment, 2021, 264, 112582.	11.0	61
13	biodivMapR: An <scp>r</scp> package for α‐and β‐diversity mapping using remotely sensed images. Methods in Ecology and Evolution, 2020, 11, 64-70.	5.2	34
14	Applications in remote sensing—natural landscapes. Data Handling in Science and Technology, 2020, 32, 371-410.	3.1	1
15	Retrieval of aboveground crop nitrogen content with a hybrid machine learning method. International Journal of Applied Earth Observation and Geoinformation, 2020, 92, 102174.	2.8	70
16	Quantitative Airborne Inventories in Dense Tropical Forest Using Imaging Spectroscopy. Remote Sensing, 2020, 12, 1577.	4.0	4
17	Crop nitrogen monitoring: Recent progress and principal developments in the context of imaging spectroscopy missions. Remote Sensing of Environment, 2020, 242, 111758.	11.0	183
18	Upscaling Forest Biomass from Field to Satellite Measurements: Sources of Errors and Ways to Reduce Them. Surveys in Geophysics, 2019, 40, 881-911.	4.6	61

#	Article	IF	Citations
19	Across Date Species Detection Using Airborne Imaging Spectroscopy. Remote Sensing, 2019, 11, 789.	4.0	15
20	Complementarity between Textural and Radiometric Indices From Airborne and Spaceborne Multi VHSR Data: Disentangling the Complexity of Heterogeneous Landscape Matrix. Remote Sensing, 2019, 11, 693.	4.0	1
21	Use of Sentinel-2 Time-Series Images for Classification and Uncertainty Analysis of Inherent Biophysical Property: Case of Soil Texture Mapping. Remote Sensing, 2019, 11, 565.	4.0	48
22	Estimating leaf mass per area and equivalent water thickness based on leaf optical properties: Potential and limitations of physical modeling and machine learning. Remote Sensing of Environment, 2019, 231, 110959.	11.0	92
23	Fusion of hyperspectral imaging and LiDAR for forest monitoring. Data Handling in Science and Technology, 2019, 32, 281-303.	3.1	13
24	Retrieving structural and chemical properties of individual tree crowns in a highly diverse tropical forest with 3D radiative transfer modeling and imaging spectroscopy. Remote Sensing of Environment, 2018, 211, 276-291.	11.0	45
25	A Simplified 3D Radiative Transfer Approach for the Retrieval of Chemical and Structural Properties of Individual Tree Crowns from Hyperspectral Data. , 2018, , .		0
26	Landscape Structure Estimation using Fourier-Based Textural Ordination of High Resolution Airborne Optical Image. , 2018, , .		1
27	Exploring the potential of PROCOSINE and close-range hyperspectral imaging to study the effects of fungal diseases on leaf physiology. Scientific Reports, 2018, 8, 15933.	3.3	22
28	Measuring β‐diversity by remote sensing: A challenge for biodiversity monitoring. Methods in Ecology and Evolution, 2018, 9, 1787-1798.	5.2	97
29	A generic remote sensing approach to derive operational essential biodiversity variables (EBVs) for conservation planning. Methods in Ecology and Evolution, 2018, 9, 1822-1836.	5.2	20
30	Monitoring and Characterizing Heterogeneous Mediterranean Landscapes with Continuous Textural Indices Based on VHSR Imagery. Remote Sensing, 2018, 10, 868.	4.0	7
31	PROSPECT-D: Towards modeling leaf optical properties through a complete lifecycle. Remote Sensing of Environment, 2017, 193, 204-215.	11.0	432
32	Detection of Flavescence dorÃ©e Grapevine Disease Using Unmanned Aerial Vehicle (UAV) Multispectral Imagery. Remote Sensing, 2017, 9, 308.	4.0	142
33	Simulating the Canopy Reflectance of Different Eucalypt Genotypes With the DART 3-D Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4844-4852.	4.9	5
34	Mangrove Forest Dynamics Using Very High Spatial Resolution Optical Remote Sensing. , 2016, , 269-295.		2
35	DAta simulation and fusion of imaging spectrometer and LiDAR multi-sensor system through dart model. , 2016, , .		1
36	Multitemporal Analysis of High-Spatial-Resolution Optical Satellite Imagery for Mangrove Species Mapping in Bali, Indonesia. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3680-3686.	4.9	24

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37	Satellite remote sensing to monitor species diversity: potential and pitfalls. Remote Sensing in Ecology and Conservation, 2016, 2, 25-36.	4.3	137
38	A physically-based model for retrieving foliar biochemistry and leaf orientation using close-range imaging spectroscopy. Remote Sensing of Environment, 2016, 177, 220-236.	11.0	127
39	Extended biomass allometric equations for large mangrove trees from terrestrial LiDAR data. Trees - Structure and Function, 2016, 30, 935-947.	1.9	39
40	Discrete Anisotropic Radiative Transfer (DART 5) for Modeling Airborne and Satellite Spectroradiometer and LIDAR Acquisitions of Natural and Urban Landscapes. Remote Sensing, 2015, 7, 1667-1701.	4.0	234
41	On the use of binary partition trees for the tree crown segmentation of tropical rainforest hyperspectral images. Remote Sensing of Environment, 2015, 159, 318-331.	11.0	54
42	Detecting the Phenology and Discriminating Mediterranean Natural Habitats With Multispectral Sensorsâ€"An Analysis Based on Multiseasonal Field Spectra. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2294-2305.	4.9	17
43	Temporal stability of mangrove multispectral signatures at fine scales: Stability of mangrove multispectral signatures. , 2015, , .		0
44	Mapping tropical forest canopy diversity using highâ€fidelity imaging spectroscopy. Ecological Applications, 2014, 24, 1289-1296.	3.8	155
45	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.	11.1	101
46	Microtopographic controls on lowland Amazonian canopy diversity from imaging spectroscopy. Ecological Applications, 2014, 24, 1297-1310.	3.8	18
47	Landscapeâ€scale variation in plant community composition of an African savanna from airborne species mapping. Ecological Applications, 2014, 24, 84-93.	3.8	53
48	Tree Species Discrimination in Tropical Forests Using Airborne Imaging Spectroscopy. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 73-84.	6.3	167
49	Binary partition tree as a hyperspectral segmentation tool for tropical rainforests. , 2012, , .		6
50	Predicting leaf gravimetric water content from foliar reflectance across a range of plant species using continuous wavelet analysis. Journal of Plant Physiology, 2012, 169, 1134-1142.	3.5	86
51	Semi-Supervised Methods to Identify Individual Crowns of Lowland Tropical Canopy Species Using Imaging Spectroscopy and LiDAR. Remote Sensing, 2012, 4, 2457-2476.	4.0	43
52	Mapping Savanna Tree Species at Ecosystem Scales Using Support Vector Machine Classification and BRDF Correction on Airborne Hyperspectral and LiDAR Data. Remote Sensing, 2012, 4, 3462-3480.	4.0	175
53	Regularization of discriminant analysis for the study of biodiversity in humid tropical forests. , 2011, , .		2
54	Spectroscopic classification of tropical forest species using radiative transfer modeling. Remote Sensing of Environment, 2011, 115, 2415-2422.	11.0	115

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55	Optimizing spectral indices and chemometric analysis of leaf chemical properties using radiative transfer modeling. Remote Sensing of Environment, 2011, 115, 2742-2750.	11.0	274
56	Localization of cavities in a thick lava flow by microgravimetry. Journal of Volcanology and Geothermal Research, 2009, 184, 193-198.	2.1	15
57	Estimation of soil clay and calcium carbonate using laboratory, field and airborne hyperspectral measurements. Remote Sensing of Environment, 2008, 112, 825-835.	11.0	235
58	PROSPECT-4 and 5: Advances in the leaf optical properties model separating photosynthetic pigments. Remote Sensing of Environment, 2008, 112, 3030-3043.	11.0	773
59	ON THE USE OF SHORTWAVE INFRARED FOR TREE SPECIES DISCRIMINATION IN TROPICAL SEMIDECIDUOUS FOREST. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W3, 473-476.	0.2	8