

Stephane Jacquemoud

List of Publications by Year in descending order

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63
papers

11,582
citations

87723

38
h-index

197535

49
g-index

78
all docs

78
docs citations

78
times ranked

6297
citing authors

#	ARTICLE	IF	CITATIONS
1	A Simulation-Based Error Budget of the TES Method for the Design of the Spectral Configuration of the Micro-Bolometer-Based MISTIGRI Thermal Infrared Sensor. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	2.7	3
2	ND-space: Normalized difference spectral mapping. Remote Sensing of Environment, 2021, 264, 112622.	4.6	10
3	How the Optical Properties of Leaves Modify the Absorption and Scattering of Energy and Enhance Leaf Functionality. , 2020, , 349-384.		55
4	Leaf Optical Properties in Different Wavelength Domains. , 2019, , 124-169.		4
5	Variation Due to Leaf Structural, Chemical, and Physiological Traits. , 2019, , 170-194.		3
6	Extraction of Leaf Traits. , 2019, , 320-356.		0
7	A Brief History of Leaf Color. , 2019, , 1-11.		0
8	Leaf Biophysics. , 2019, , 12-47.		0
9	Spectroscopy of Leaf Molecules. , 2019, , 48-73.		2
10	Measurement of Leaf Optical Properties. , 2019, , 74-123.		1
11	Variations Due to Leaf Abiotic and Biotic Factors. , 2019, , 195-228.		1
12	Comprehensive Reviews of Leaf Optical Properties Models. , 2019, , 229-264.		1
13	Modeling Leaf Optical Properties:prospect. , 2019, , 265-291.		1
14	Modeling Three-Dimensional Leaf Optical Properties:raytran. , 2019, , 292-319.		0
15	Applications of Leaf Optics. , 2019, , 357-403.		0
16	Retrieving soil surface roughness with the Hapke photometric model: Confrontation with the ground truth. Remote Sensing of Environment, 2019, 225, 1-15.	4.6	16
17	MARMIT: A multilayer radiative transfer model of soil reflectance to estimate surface soil moisture content in the solar domain (400â€“2500â€“ nm). Remote Sensing of Environment, 2018, 217, 1-17.	4.6	64
18	Reassessment of the temperature-emissivity separation from multispectral thermal infrared data: Introducing the impact of vegetation canopy by simulating the cavity effect with the SAIL-Thermique model. Remote Sensing of Environment, 2017, 198, 160-172.	4.6	34

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19	Surface roughness retrieval by inversion of the Hapke model: A multiscale approach. <i>Icarus</i> , 2017, 290, 63-80.	1.1	33
20	PROSPECT-D: Towards modeling leaf optical properties through a complete lifecycle. <i>Remote Sensing of Environment</i> , 2017, 193, 204-215.	4.6	432
21	Airborne Lidar Estimation of Aboveground Forest Biomass in the Absence of Field Inventory. <i>Remote Sensing</i> , 2016, 8, 653.	1.8	43
22	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	1.6	31
23	Canopy Density Model: A New ALS-Derived Product to Generate Multilayer Crown Cover Maps. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 6776-6790.	2.7	14
24	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
25	Quantification of L-band InSAR coherence over volcanic areas using LiDAR and in situ measurements. <i>Remote Sensing of Environment</i> , 2014, 152, 202-216.	4.6	13
26	An advanced photogrammetric method to measure surface roughness: Application to volcanic terrains in the Piton de la Fournaise, Reunion Island. <i>Remote Sensing of Environment</i> , 2013, 135, 1-11.	4.6	62
27	Reply to Townsend et al.: Decoupling contributions from canopy structure and leaf optics is critical for remote sensing leaf biochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1075.	3.3	12
28	Hyperspectral remote sensing of foliar nitrogen content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E185-92.	3.3	389
29	Reply to Ollinger et al.: Remote sensing of leaf nitrogen and emergent ecosystem properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2438.	3.3	11
30	HYPXIM: A second generation high spatial resolution hyperspectral satellite for dual applications. , 2013, , .		7
31	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
32	3-D mapping of a multi-layered Mediterranean forest using ALS data. <i>Remote Sensing of Environment</i> , 2012, 121, 210-223.	4.6	174
33	Modeling directional hemispherical reflectance and transmittance of fresh and dry leaves from 0.4 to 5.7 μm with the PROSPECT-VISIR model. <i>Remote Sensing of Environment</i> , 2011, 115, 404-414.	4.6	101
34	Optimizing spectral indices and chemometric analysis of leaf chemical properties using radiative transfer modeling. <i>Remote Sensing of Environment</i> , 2011, 115, 2742-2750.	4.6	274
35	FluorMODleaf: A new leaf fluorescence emission model based on the PROSPECT model. <i>Remote Sensing of Environment</i> , 2010, 114, 155-167.	4.6	94
36	Retrieval of foliar information about plant pigment systems from high resolution spectroscopy. <i>Remote Sensing of Environment</i> , 2009, 113, S67-S77.	4.6	576

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37	PROSPECT+SAIL models: A review of use for vegetation characterization. Remote Sensing of Environment, 2009, 113, S56-S66.	4.6	1,178
38	PROSPECT-4 and 5: Advances in the leaf optical properties model separating photosynthetic pigments. Remote Sensing of Environment, 2008, 112, 3030-3043.	4.6	773
39	Chlorophyll fluorescence emission spectrum inside a leaf. Photochemical and Photobiological Sciences, 2008, 7, 498-502.	1.6	143
40	A new spectrogoniophotometer to measure leaf spectral and directional optical properties. Remote Sensing of Environment, 2007, 109, 107-117.	4.6	75
41	Leaf BRDF measurements and model for specular and diffuse components differentiation. Remote Sensing of Environment, 2005, 98, 201-211.	4.6	207
42	Design and analysis of numerical experiments to compare four canopy reflectance models. Remote Sensing of Environment, 2002, 79, 72-83.	4.6	150
43	Reliability of the estimation of vegetation characteristics by inversion of three canopy reflectance models on airborne POLDER data. Agronomy for Sustainable Development, 2002, 22, 555-565.	0.8	103
44	Radiation transfer model intercomparison (RAMI) exercise. Journal of Geophysical Research, 2001, 106, 11937-11956.	3.3	138
45	Detecting vegetation leaf water content using reflectance in the optical domain. Remote Sensing of Environment, 2001, 77, 22-33.	4.6	828
46	Simulation of photon transport in a three-dimensional leaf: implications for photosynthesis. Plant, Cell and Environment, 2001, 24, 1095-1103.	2.8	92
47	Comparison of Four Radiative Transfer Models to Simulate Plant Canopies Reflectance Direct and Inverse Mode. Remote Sensing of Environment, 2000, 74, 471-481.	4.6	355
48	Estimating Canopy Water Content of Chaparral Shrubs Using Optical Methods. Remote Sensing of Environment, 1998, 65, 280-291.	4.6	190
49	Evaluation of an improved version of SAIL model for simulating bidirectional reflectance of sugar beet canopies. Remote Sensing of Environment, 1997, 60, 247-257.	4.6	69
50	Three-dimensional radiation transfer modeling in a dicotyledon leaf. Applied Optics, 1996, 35, 6585.	2.1	146
51	Leaf optical properties with explicit description of its biochemical composition: Direct and inverse problems. Remote Sensing of Environment, 1996, 56, 104-117.	4.6	332
52	Critique of stepwise multiple linear regression for the extraction of leaf biochemistry information from leaf reflectance data. Remote Sensing of Environment, 1996, 56, 182-193.	4.6	241
53	Estimating leaf biochemistry using the PROSPECT leaf optical properties model. Remote Sensing of Environment, 1996, 56, 194-202.	4.6	566
54	Geometrical modelling of soil bidirectional reflectance incorporating specular effects. International Journal of Remote Sensing, 1996, 17, 3691-3704.	1.3	15

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55	Extraction of vegetation biophysical parameters by inversion of the PROSPECT + SAIL models on sugar beet canopy reflectance data. Application to TM and AVIRIS sensors. Remote Sensing of Environment, 1995, 52, 163-172.	4.6	349
56	Investigation of leaf biochemistry by statistics. Remote Sensing of Environment, 1995, 54, 180-188.	4.6	99
57	Use of spectral analogy to evaluate canopy reflectance sensitivity to leaf optical properties. Remote Sensing of Environment, 1994, 48, 253-260.	4.6	95
58	About the soil line concept in remote sensing. Advances in Space Research, 1993, 13, 281-284.	1.2	78
59	Inversion of the PROSPECT + SAIL canopy reflectance model from AVIRIS equivalent spectra: Theoretical study. Remote Sensing of Environment, 1993, 44, 281-292.	4.6	226
60	The soil line concept in remote sensing. International Journal of Remote Sensing, 1993, 7, 65-82.	1.1	145
61	Modeling spectral and bidirectional soil reflectance. Remote Sensing of Environment, 1992, 41, 123-132.	4.6	239
62	Modeled analysis of the biophysical nature of spectral shifts and comparison with information content of broad bands. Remote Sensing of Environment, 1992, 41, 133-142.	4.6	195
63	PROSPECT: A model of leaf optical properties spectra. Remote Sensing of Environment, 1990, 34, 75-91.	4.6	1,841