

Stephane Jacquemoud

List of Publications by Year in descending order

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63
papers

11,582
citations

87888

38
h-index

197818

49
g-index

78
all docs

78
docs citations

78
times ranked

6297
citing authors

#	ARTICLE	IF	CITATIONS
1	PROSPECT: A model of leaf optical properties spectra. Remote Sensing of Environment, 1990, 34, 75-91.	11.0	1,841
2	PROSPECT+SAIL models: A review of use for vegetation characterization. Remote Sensing of Environment, 2009, 113, S56-S66.	11.0	1,178
3	Detecting vegetation leaf water content using reflectance in the optical domain. Remote Sensing of Environment, 2001, 77, 22-33.	11.0	828
4	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
5	Retrieval of foliar information about plant pigment systems from high resolution spectroscopy. Remote Sensing of Environment, 2009, 113, S67-S77.	11.0	576
6	Estimating leaf biochemistry using the PROSPECT leaf optical properties model. Remote Sensing of Environment, 1996, 56, 194-202.	11.0	566
7	PROSPECT-D: Towards modeling leaf optical properties through a complete lifecycle. Remote Sensing of Environment, 2017, 193, 204-215.	11.0	432
8	Hyperspectral remote sensing of foliar nitrogen content. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E185-92.	7.1	389
9	Comparison of Four Radiative Transfer Models to Simulate Plant Canopies Reflectance Direct and Inverse Mode. Remote Sensing of Environment, 2000, 74, 471-481.	11.0	355
10	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.	11.0	349
11	Leaf optical properties with explicit description of its biochemical composition: Direct and inverse problems. Remote Sensing of Environment, 1996, 56, 104-117.	11.0	332
12	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
13	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.	11.0	241
14	Modeling spectral and bidirectional soil reflectance. Remote Sensing of Environment, 1992, 41, 123-132.	11.0	239
15	Inversion of the PROSPECT + SAIL canopy reflectance model from AVIRIS equivalent spectra: Theoretical study. Remote Sensing of Environment, 1993, 44, 281-292.	11.0	226
16	Leaf BRDF measurements and model for specular and diffuse components differentiation. Remote Sensing of Environment, 2005, 98, 201-211.	11.0	207
17	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.	11.0	195
18	Estimating Canopy Water Content of Chaparral Shrubs Using Optical Methods. Remote Sensing of Environment, 1998, 65, 280-291.	11.0	190

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19	3-D mapping of a multi-layered Mediterranean forest using ALS data. Remote Sensing of Environment, 2012, 121, 210-223.	11.0	174
20	Design and analysis of numerical experiments to compare four canopy reflectance models. Remote Sensing of Environment, 2002, 79, 72-83.	11.0	150
21	Three-dimensional radiation transfer modeling in a dicotyledon leaf. Applied Optics, 1996, 35, 6585.	2.1	146
22	The soil line concept in remote sensing. International Journal of Remote Sensing, 1993, 7, 65-82.	1.0	145
23	Chlorophyll fluorescence emission spectrum inside a leaf. Photochemical and Photobiological Sciences, 2008, 7, 498-502.	2.9	143
24	Radiation transfer model intercomparison (RAMI) exercise. Journal of Geophysical Research, 2001, 106, 11937-11956.	3.3	138
25	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
26	Modeling directional hemispherical reflectance and transmittance of fresh and dry leaves from 0.4 μ m to 5.7 μ m with the PROSPECT-VISIR model. Remote Sensing of Environment, 2011, 115, 404-414.	11.0	101
27	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
28	Investigation of leaf biochemistry by statistics. Remote Sensing of Environment, 1995, 54, 180-188.	11.0	99
29	Use of spectral analogy to evaluate canopy reflectance sensitivity to leaf optical properties. Remote Sensing of Environment, 1994, 48, 253-260.	11.0	95
30	FluorMODleaf: A new leaf fluorescence emission model based on the PROSPECT model. Remote Sensing of Environment, 2010, 114, 155-167.	11.0	94
31	Simulation of photon transport in a three-dimensional leaf: implications for photosynthesis. Plant, Cell and Environment, 2001, 24, 1095-1103.	5.7	92
32	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
33	About the soil line concept in remote sensing. Advances in Space Research, 1993, 13, 281-284.	2.6	78
34	A new spectrogoniophotometer to measure leaf spectral and directional optical properties. Remote Sensing of Environment, 2007, 109, 107-117.	11.0	75
35	Evaluation of an improved version of SAIL model for simulating bidirectional reflectance of sugar beet canopies. Remote Sensing of Environment, 1997, 60, 247-257.	11.0	69
36	MARMIT: A multilayer radiative transfer model of soil reflectance to estimate surface soil moisture content in the solar domain (400-2500 nm). Remote Sensing of Environment, 2018, 217, 1-17.	11.0	64

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37	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.	11.0	62
38	How the Optical Properties of Leaves Modify the Absorption and Scattering of Energy and Enhance Leaf Functionality. , 2020, , 349-384.		55
39	Airborne Lidar Estimation of Aboveground Forest Biomass in the Absence of Field Inventory. <i>Remote Sensing</i> , 2016, 8, 653.	4.0	43
40	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. <i>Remote Sensing of Environment</i> , 2017, 198, 160-172.	11.0	34
41	Surface roughness retrieval by inversion of the Hapke model: A multiscale approach. <i>Icarus</i> , 2017, 290, 63-80.	2.5	33
42	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
43	Retrieving soil surface roughness with the Hapke photometric model: Confrontation with the ground truth. <i>Remote Sensing of Environment</i> , 2019, 225, 1-15.	11.0	16
44	Geometrical modelling of soil bidirectional reflectance incorporating specular effects. <i>International Journal of Remote Sensing</i> , 1996, 17, 3691-3704.	2.9	15
45	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.	6.3	14
46	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.	11.0	13
47	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.	7.1	12
48	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.	7.1	11
49	ND-space: Normalized difference spectral mapping. <i>Remote Sensing of Environment</i> , 2021, 264, 112622.	11.0	10
50	HYPXIM: A second generation high spatial resolution hyperspectral satellite for dual applications. , 2013, , .		7
51	Leaf Optical Properties in Different Wavelength Domains. , 2019, , 124-169.		4
52	Variation Due to Leaf Structural, Chemical, and Physiological Traits. , 2019, , 170-194.		3
53	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. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-19.	6.3	3
54	Spectroscopy of Leaf Molecules. , 2019, , 48-73.		2

#	ARTICLE	IF	CITATIONS
55	Measurement of Leaf Optical Properties. , 2019, , 74-123.		1
56	Variations Due to Leaf Abiotic and Biotic Factors. , 2019, , 195-228.		1
57	Comprehensive Reviews of Leaf Optical Properties Models. , 2019, , 229-264.		1
58	Modeling Leaf Optical Properties:prospect. , 2019, , 265-291.		1
59	Extraction of Leaf Traits. , 2019, , 320-356.		0
60	A Brief History of Leaf Color. , 2019, , 1-11.		0
61	Leaf Biophysics. , 2019, , 12-47.		0
62	Modeling Three-Dimensional Leaf Optical Properties:raytran. , 2019, , 292-319.		0
63	Applications of Leaf Optics. , 2019, , 357-403.		0