

Stephane Jacquemoud

List of Publications by Year in descending order

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Version: 2024-02-01

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 | PROSPECT: A model of leaf optical properties spectra. Remote Sensing of Environment, 1990, 34, 75-91. | 4.6 | 1,841 |
| 2 | PROSPECT+SAIL models: A review of use for vegetation characterization. Remote Sensing of Environment, 2009, 113, S56-S66. | 4.6 | 1,178 |
| 3 | Detecting vegetation leaf water content using reflectance in the optical domain. Remote Sensing of Environment, 2001, 77, 22-33. | 4.6 | 828 |
| 4 | 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 |
| 5 | Retrieval of foliar information about plant pigment systems from high resolution spectroscopy. Remote Sensing of Environment, 2009, 113, S67-S77. | 4.6 | 576 |
| 6 | Estimating leaf biochemistry using the PROSPECT leaf optical properties model. Remote Sensing of Environment, 1996, 56, 194-202. | 4.6 | 566 |
| 7 | PROSPECT-D: Towards modeling leaf optical properties through a complete lifecycle. Remote Sensing of Environment, 2017, 193, 204-215. | 4.6 | 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. | 3.3 | 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. | 4.6 | 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. | 4.6 | 349 |
| 11 | 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 |
| 12 | Optimizing spectral indices and chemometric analysis of leaf chemical properties using radiative transfer modeling. Remote Sensing of Environment, 2011, 115, 2742-2750. | 4.6 | 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. | 4.6 | 241 |
| 14 | Modeling spectral and bidirectional soil reflectance. Remote Sensing of Environment, 1992, 41, 123-132. | 4.6 | 239 |
| 15 | 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 |
| 16 | Leaf BRDF measurements and model for specular and diffuse components differentiation. Remote Sensing of Environment, 2005, 98, 201-211. | 4.6 | 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. | 4.6 | 195 |
| 18 | Estimating Canopy Water Content of Chaparral Shrubs Using Optical Methods. Remote Sensing of Environment, 1998, 65, 280-291. | 4.6 | 190 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | 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 |
| 20 | Design and analysis of numerical experiments to compare four canopy reflectance models. <i>Remote Sensing of Environment</i> , 2002, 79, 72-83. | 4.6 | 150 |
| 21 | Three-dimensional radiation transfer modeling in a dicotyledon leaf. <i>Applied Optics</i> , 1996, 35, 6585. | 2.1 | 146 |
| 22 | The soil line concept in remote sensing. <i>International Journal of Remote Sensing</i> , 1993, 7, 65-82. | 1.1 | 145 |
| 23 | Chlorophyll fluorescence emission spectrum inside a leaf. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 498-502. | 1.6 | 143 |
| 24 | Radiation transfer model intercomparison (RAMI) exercise. <i>Journal of Geophysical Research</i> , 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. <i>Agronomy for Sustainable Development</i> , 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. <i>Remote Sensing of Environment</i> , 2011, 115, 404-414. | 4.6 | 101 |
| 27 | 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 |
| 28 | Investigation of leaf biochemistry by statistics. <i>Remote Sensing of Environment</i> , 1995, 54, 180-188. | 4.6 | 99 |
| 29 | Use of spectral analogy to evaluate canopy reflectance sensitivity to leaf optical properties. <i>Remote Sensing of Environment</i> , 1994, 48, 253-260. | 4.6 | 95 |
| 30 | 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 |
| 31 | Simulation of photon transport in a three-dimensional leaf: implications for photosynthesis. <i>Plant, Cell and Environment</i> , 2001, 24, 1095-1103. | 2.8 | 92 |
| 32 | 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 |
| 33 | About the soil line concept in remote sensing. <i>Advances in Space Research</i> , 1993, 13, 281-284. | 1.2 | 78 |
| 34 | A new spectrogoniophotometer to measure leaf spectral and directional optical properties. <i>Remote Sensing of Environment</i> , 2007, 109, 107-117. | 4.6 | 75 |
| 35 | Evaluation of an improved version of SAIL model for simulating bidirectional reflectance of sugar beet canopies. <i>Remote Sensing of Environment</i> , 1997, 60, 247-257. | 4.6 | 69 |
| 36 | MARMIT: A multilayer radiative transfer model of soil reflectance to estimate surface soil moisture content in the solar domain (400-2500 nm). <i>Remote Sensing of Environment</i> , 2018, 217, 1-17. | 4.6 | 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. | 4.6 | 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. | 1.8 | 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. | 4.6 | 34 |
| 41 | Surface roughness retrieval by inversion of the Hapke model: A multiscale approach. <i>Icarus</i> , 2017, 290, 63-80. | 1.1 | 33 |
| 42 | The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391. | 1.6 | 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. | 4.6 | 16 |
| 44 | Geometrical modelling of soil bidirectional reflectance incorporating specular effects. <i>International Journal of Remote Sensing</i> , 1996, 17, 3691-3704. | 1.3 | 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. | 2.7 | 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. | 4.6 | 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. | 3.3 | 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. | 3.3 | 11 |
| 49 | ND-space: Normalized difference spectral mapping. <i>Remote Sensing of Environment</i> , 2021, 264, 112622. | 4.6 | 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. | 2.7 | 3 |
| 54 | Spectroscopy of Leaf Molecules. , 2019, , 48-73. | | 2 |

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|----|--------------------------------------------------------------------------------|----|-----------|
| 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 |