

Frederic Baret

List of Publications by Year in descending order

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Version: 2024-02-01

237
papers

26,441
citations

9234

74
h-index

6282

158
g-index

244
all docs

244
docs citations

244
times ranked

13646
citing authors

#	ARTICLE	IF	CITATIONS
1	Breeding for Economically and Environmentally Sustainable Wheat Varieties: An Integrated Approach from Genomics to Selection. <i>Biology</i> , 2022, 11, 149.	1.3	5
2	Genomic Prediction of Green Fraction Dynamics in Soybean Using Unmanned Aerial Vehicles Observations. <i>Frontiers in Plant Science</i> , 2022, 13, 828864.	1.7	9
3	Effective GAI is best estimated from reflectance observations as compared to GAI and LAI: Demonstration for wheat and maize crops based on 3D radiative transfer simulations. <i>Field Crops Research</i> , 2022, 283, 108538.	2.3	9
4	Crop specific inversion of PROSAIL to retrieve green area index (GAI) from several decametric satellites using a Bayesian framework. <i>Remote Sensing of Environment</i> , 2022, 278, 113085.	4.6	13
5	Critical analysis of methods to estimate the fraction of absorbed or intercepted photosynthetically active radiation from ground measurements: Application to rice crops. <i>Agricultural and Forest Meteorology</i> , 2021, 297, 108273.	1.9	17
6	Lidar sheds new light on plant phenomics for plant breeding and management: Recent advances and future prospects. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 171, 202-223.	4.9	82
7	FASPECT: A model of leaf optical properties accounting for the differences between upper and lower faces. <i>Remote Sensing of Environment</i> , 2021, 253, 112205.	4.6	15
8	Importance of the description of light interception in crop growth models. <i>Plant Physiology</i> , 2021, 186, 977-997.	2.3	21
9	Impact of the reproductive organs on crop BRDF as observed from a UAV. <i>Remote Sensing of Environment</i> , 2021, 259, 112433.	4.6	30
10	Crop specific algorithms trained over ground measurements provide the best performance for GAI and fAPAR estimates from Landsat-8 observations. <i>Remote Sensing of Environment</i> , 2021, 260, 112453.	4.6	21
11	Characterizing reflectance anisotropy of background soil in open-canopy plantations using UAV-based multiangular images. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 177, 263-278.	4.9	23
12	Estimates of Maize Plant Density from UAV RGB Images Using Faster-RCNN Detection Model: Impact of the Spatial Resolution. <i>Plant Phenomics</i> , 2021, 2021, 9824843.	2.5	32
13	Global Wheat Head Detection 2021: An Improved Dataset for Benchmarking Wheat Head Detection Methods. <i>Plant Phenomics</i> , 2021, 2021, 9846158.	2.5	60
14	Exploring Seasonal and Circadian Rhythms in Structural Traits of Field Maize from LiDAR Time Series. <i>Plant Phenomics</i> , 2021, 2021, 9895241.	2.5	10
15	Reaching Stage 4 of Vegetation Product Validation by Exploiting the Synergy Between UAV, HR Satellites and IoT Measurements. , 2021, , .		0
16	Bridging the Gap Between Remote Sensing and Plant Phenotyping – Challenges and Opportunities for the Next Generation of Sustainable Agriculture. <i>Frontiers in Plant Science</i> , 2021, 12, 749374.	1.7	20
17	A Double Swath Configuration for Improving Throughput and Accuracy of Trait Estimate from UAV Images. <i>Plant Phenomics</i> , 2021, 2021, 9892647.	2.5	2
18	Speeding up 3D radiative transfer simulations: A physically based metamodel of canopy reflectance dependency on wavelength, leaf biochemical composition and soil reflectance. <i>Remote Sensing of Environment</i> , 2020, 237, 111614.	4.6	4

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19	Quality Assessment of PROBA-V LAI, fAPAR and fCOVER Collection 300 m Products of Copernicus Global Land Service. <i>Remote Sensing</i> , 2020, 12, 1017.	1.8	91
20	An automatic method based on daily in situ images and deep learning to date wheat heading stage. <i>Field Crops Research</i> , 2020, 252, 107793.	2.3	30
21	Global Wheat Head Detection (GWHD) Dataset: A Large and Diverse Dataset of High-Resolution RGB-Labelled Images to Develop and Benchmark Wheat Head Detection Methods. <i>Plant Phenomics</i> , 2020, 2020, 3521852.	2.5	128
22	Scoring Cercospora Leaf Spot on Sugar Beet: Comparison of UGV and UAV Phenotyping Systems. <i>Plant Phenomics</i> , 2020, 2020, 9452123.	2.5	14
23	What is cost-efficient phenotyping? Optimizing costs for different scenarios. <i>Plant Science</i> , 2019, 282, 14-22.	1.7	103
24	Estimation of Plant and Canopy Architectural Traits Using the Digital Plant Phenotyping Platform. <i>Plant Physiology</i> , 2019, 181, 881-890.	2.3	36
25	Exploring the spatial relationship between airborne-derived red and far-red sun-induced fluorescence and process-based GPP estimates in a forest ecosystem. <i>Remote Sensing of Environment</i> , 2019, 231, 111272.	4.6	34
26	A High-Throughput Model-Assisted Method for Phenotyping Maize Green Leaf Area Index Dynamics Using Unmanned Aerial Vehicle Imagery. <i>Frontiers in Plant Science</i> , 2019, 10, 685.	1.7	39
27	An Overview of Global Leaf Area Index (LAI): Methods, Products, Validation, and Applications. <i>Reviews of Geophysics</i> , 2019, 57, 739-799.	9.0	396
28	Estimation of Nitrogen Nutrition Status in Winter Wheat From Unmanned Aerial Vehicle Based Multi-Angular Multispectral Imagery. <i>Frontiers in Plant Science</i> , 2019, 10, 1601.	1.7	47
29	Exploiting the centimeter resolution of UAV multispectral imagery to improve remote-sensing estimates of canopy structure and biochemistry in sugar beet crops. <i>Remote Sensing of Environment</i> , 2019, 231, 110898.	4.6	115
30	Ear density estimation from high resolution RGB imagery using deep learning technique. <i>Agricultural and Forest Meteorology</i> , 2019, 264, 225-234.	1.9	190
31	High-Throughput Measurements of Stem Characteristics to Estimate Ear Density and Above-Ground Biomass. <i>Plant Phenomics</i> , 2019, 2019, 4820305.	2.5	31
32	Leaf-rolling in maize crops: from leaf scoring to canopy-level measurements for phenotyping. <i>Journal of Experimental Botany</i> , 2018, 69, 2705-2716.	2.4	49
33	Estimation of leaf traits from reflectance measurements: comparison between methods based on vegetation indices and several versions of the PROSPECT model. <i>Plant Methods</i> , 2018, 14, 23.	1.9	40
34	Monitoring Forest Phenology and Leaf Area Index with the Autonomous, Low-Cost Transmittance Sensor PASTiS-57. <i>Remote Sensing</i> , 2018, 10, 1032.	1.8	17
35	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
36	Estimating leaf chlorophyll content in sugar beet canopies using millimeter- to centimeter-scale reflectance imagery. <i>Remote Sensing of Environment</i> , 2017, 198, 173-186.	4.6	108

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37	Estimates of plant density of wheat crops at emergence from very low altitude UAV imagery. Remote Sensing of Environment, 2017, 198, 105-114.	4.6	312
38	Modeling the spatial distribution of plants on the row for wheat crops: Consequences on the green fraction at the canopy level. Computers and Electronics in Agriculture, 2017, 136, 147-156.	3.7	8
39	Assessment of Three Methods for Near Real-Time Estimation of Leaf Area Index From AVHRR Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1489-1497.	2.7	5
40	Combining hectometric and decametric satellite observations to provide near real time decametric FAPAR product. Remote Sensing of Environment, 2017, 200, 250-262.	4.6	17
41	Estimating wheat green area index from ground-based LiDAR measurement using a 3D canopy structure model. Agricultural and Forest Meteorology, 2017, 247, 12-20.	1.9	57
42	A method to estimate plant density and plant spacing heterogeneity: application to wheat crops. Plant Methods, 2017, 13, 38.	1.9	27
43	Estimation of Wheat Plant Density at Early Stages Using High Resolution Imagery. Frontiers in Plant Science, 2017, 8, 739.	1.7	60
44	High-Throughput Phenotyping of Plant Height: Comparing Unmanned Aerial Vehicles and Ground LiDAR Estimates. Frontiers in Plant Science, 2017, 8, 2002.	1.7	240
45	Using 3D Point Clouds Derived from UAV RGB Imagery to Describe Vineyard 3D Macro-Structure. Remote Sensing, 2017, 9, 111.	1.8	94
46	A 30+ Year AVHRR Land Surface Reflectance Climate Data Record and Its Application to Wheat Yield Monitoring. Remote Sensing, 2017, 9, 296.	1.8	49
47	Data Service Platform for Sentinel-2 Surface Reflectance and Value-Added Products: System Use and Examples. Remote Sensing, 2016, 8, 938.	1.8	132
48	Estimation of Biophysical Variables from Satellite Observations. , 2016, , 37-80.		5
49	Global Gap-Free MERIS LAI Time Series (2002â€“2012). Remote Sensing, 2016, 8, 69.	1.8	28
50	Temporal Techniques in Remote Sensing of Global Vegetation. Remote Sensing and Digital Image Processing, 2016, , 217-232.	0.7	1
51	Simple and robust methods for remote sensing of canopy chlorophyll content: a comparative analysis of hyperspectral data for different types of vegetation. Plant, Cell and Environment, 2016, 39, 2609-2623.	2.8	109
52	Forest species mapping using airborne hyperspectral APEX data. , 2016, 20, 28-33.		7
53	Deforestation in Michoacan, Mexico, From CYCLOPES-LAI Time Series (2000â€“2006). IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5398-5405.	2.3	9
54	Applying remote sensing expertise to crop improvement: progress and challenges to scale up high throughput field phenotyping from research to industry. , 2016, , .		0

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55	Fractional vegetation cover estimation algorithm for Chinese GF-1 wide field view data. Remote Sensing of Environment, 2016, 177, 184-191.	4.6	167
56	Vegetation baseline phenology from kilometeric global LAI satellite products. Remote Sensing of Environment, 2016, 178, 1-14.	4.6	101
57	Caracterización de la fenología de la vegetación a escala global mediante series temporales SPOT VEGETATION. Revista De Teledetección, 2016, , 1.	0.6	2
58	Joint assimilation of eddy covariance flux measurements and FAPAR products over temperate forests within a process-oriented biosphere model. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1839-1857.	1.3	34
59	Land Cover and Crop Type Classification along the Season Based on Biophysical Variables Retrieved from Multi-Sensor High-Resolution Time Series. Remote Sensing, 2015, 7, 10400-10424.	1.8	54
60	A Generic Algorithm to Estimate LAI, FAPAR and FCOVER Variables from SPOT4_HRVIR and Landsat Sensors: Evaluation of the Consistency and Comparison with Ground Measurements. Remote Sensing, 2015, 7, 15494-15516.	1.8	70
61	GEOCLIM: A global climatology of LAI, FAPAR, and FCOVER from VEGETATION observations for 1999-2010. Remote Sensing of Environment, 2015, 166, 126-137.	4.6	33
62	The MODIS (collection V006) BRDF/albedo product MCD43D: Temporal course evaluated over agricultural landscape. Remote Sensing of Environment, 2015, 170, 216-228.	4.6	60
63	On Line Validation Exercise (OLIVE): A Web Based Service for the Validation of Medium Resolution Land Products. Application to FAPAR Products. Remote Sensing, 2014, 6, 4190-4216.	1.8	56
64	Suitability of modelled and remotely sensed essential climate variables for monitoring Euro-Mediterranean droughts. Geoscientific Model Development, 2014, 7, 931-946.	1.3	40
65	Development and assessment of leaf area index algorithms for the Sentinel-2 multispectral imager. , 2014, , .		6
66	Near-surface remote sensing observations for monitoring deciduous broadleaf forest species phenology. , 2014, , .		1
67	Near Real-Time Vegetation Monitoring at Global Scale. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3473-3481.	2.3	106
68	ACT: A leaf BRDF model taking into account the azimuthal anisotropy of monocotyledonous leaf surface. Remote Sensing of Environment, 2014, 143, 112-121.	4.6	61
69	SPOT-VEGETATION GEOV1 biophysical parameters in semi-arid agro-ecosystems. International Journal of Remote Sensing, 2014, 35, 2534-2547.	1.3	9
70	Green area index from an unmanned aerial system over wheat and rapeseed crops. Remote Sensing of Environment, 2014, 152, 654-664.	4.6	151
71	Local Vegetation Trends in the Sahel of Mali and Senegal Using Long Time Series FAPAR Satellite Products and Field Measurement (1982-2010). Remote Sensing, 2014, 6, 2408-2434.	1.8	44
72	Green Leaf Area and Fraction of Photosynthetically Active Radiation Absorbed by Vegetation. Springer Remote Sensing/photogrammetry, 2014, , 43-61.	0.4	3

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73	CAPACITY OF PHENOLOGICAL DATA DERIVED FROM CYCLOPES LAI FOR THE YEAR 2000 TO DISTINGUISH LAND COVER TYPES IN THE STATE OF MICHOACÁN, MEXICO. <i>Revista Chapingo, Serie Ciencias Forestales Y Del Ambiente</i> , 2014, XX, 261-276.	0.1	2
74	The CACAO Method for Smoothing, Gap Filling, and Characterizing Seasonal Anomalies in Satellite Time Series. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 1963-1972.	2.7	70
75	Using Thermal Time and Pixel Purity for Enhancing Biophysical Variable Time Series: An Interproduct Comparison. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 2119-2127.	2.7	17
76	Correction to "Using thermal time and pixel purity for enhancing biophysical variable time series: An interproduct comparison" [Apr 13 2119-2127]. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 4911-4911.	2.7	0
77	Validation of coarse spatial resolution LAI and FAPAR time series over cropland in southwest France. <i>Remote Sensing of Environment</i> , 2013, 139, 216-230.	4.6	155
78	Modeling forest canopies with a hierarchical multi-ring Boolean model for estimating a leaf area index. <i>Spatial Statistics</i> , 2013, 5, 42-56.	0.9	2
79	SAILHFlood: A radiative transfer model for flooded vegetation. <i>Ecological Modelling</i> , 2013, 257, 25-35.	1.2	13
80	Characterization and intercomparison of global moderate resolution leaf area index (LAI) products: Analysis of climatologies and theoretical uncertainties. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 529-548.	1.3	149
81	Evaluation of Agreement Between Space Remote Sensing SPOT-VEGETATION fAPAR Time Series. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 1951-1962.	2.7	47
82	GEOV1: LAI and FAPAR essential climate variables and FCOVER global time series capitalizing over existing products. Part1: Principles of development and production. <i>Remote Sensing of Environment</i> , 2013, 137, 299-309.	4.6	488
83	GEOV1: LAI, FAPAR essential climate variables and FCOVER global time series capitalizing over existing products. Part 2: Validation and intercomparison with reference products. <i>Remote Sensing of Environment</i> , 2013, 137, 310-329.	4.6	297
84	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
85	GEOV2/VGT: near real time estimation of global biophysical variables from VEGETATION-P data. , 2013, , .		11
86	Validation of MODIS albedo products with high resolution albedo estimates from FORMOSAT-2. , 2013, , .		1
87	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
88	Operational delivery of long time series of biophysical variables in the copernicus land service. , 2013, , .		0
89	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
90	A comparison of methods for smoothing and gap filling time series of remote sensing observations â€œ application to MODIS LAI products. <i>Biogeosciences</i> , 2013, 10, 4055-4071.	1.3	157

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91	Photosynthetically Active Radiation: Measurement and Modeling. , 2013, , 140-169.		9
92	Production of the high resolution maps of biophysical variables based on SPOT imagery and in-situ measurements generated by PASTIS 57 for Hyytiälä, Finland. , 2012, , .		1
93	A multiscale and multisensor approach of LAI retrieval in a maritime pine ecosystem. , 2012, , .		0
94	Wheat leaf bidirectional reflectance measurements: Description and quantification of the volume, specular and hot-spot scattering features. Remote Sensing of Environment, 2012, 121, 26-35.	4.6	73
95	A semi-automatic system for high throughput phenotyping wheat cultivars in-field conditions: description and first results. Functional Plant Biology, 2012, 39, 914.	1.1	104
96	Near-real time estimates of leaf area index from AVHRR time series data. , 2012, , .		1
97	Remotely sensed green area index for winter wheat crop monitoring: 10-Year assessment at regional scale over a fragmented landscape. Agricultural and Forest Meteorology, 2012, 166-167, 156-168.	1.9	39
98	Forcing a wheat crop model with LAI data to access agronomic variables: Evaluation of the impact of model and LAI uncertainties and comparison with an empirical approach. European Journal of Agronomy, 2012, 37, 1-10.	1.9	64
99	Using Automatic Differentiation to Study the Sensitivity of a Crop Model. Lecture Notes in Computational Science and Engineering, 2012, , 59-69.	0.1	5
100	Improving the Consistency and Continuity of MODIS 8 Day Leaf Area Index Products. International Journal of Electronics and Telecommunications, 2012, 58, 141-146.	0.5	4
101	Monitoring crop growth inter-annual variability from MODIS time series: Performance comparison between crop specific green area index and current global leaf area index products. , 2011, , .		1
102	Quantification of LAI interannual anomalies by adjusting climatological patterns. , 2011, , .		0
103	2D approximation of realistic 3D vineyard row canopy representation for light interception (fIPAR) and light intensity distribution on leaves (LIDIL). European Journal of Agronomy, 2011, 35, 171-183.	1.9	12
104	A multistage database of field measurements and synoptic remotely sensed data to support model validation and testing in Earth observation. Computers and Geosciences, 2011, 37, 1511-1514.	2.0	4
105	Optimal modalities for radiative transfer-neural network estimation of canopy biophysical characteristics: Evaluation over an agricultural area with CHRIS/PROBA observations. Remote Sensing of Environment, 2011, 115, 415-426.	4.6	142
106	Retrieving wheat Green Area Index during the growing season from optical time series measurements based on neural network radiative transfer inversion. Remote Sensing of Environment, 2011, 115, 887-896.	4.6	94
107	A multisensor fusion approach to improve LAI time series. Remote Sensing of Environment, 2011, 115, 2460-2470.	4.6	75
108	Crop specific green area index retrieval from MODIS data at regional scale by controlling pixel-target adequacy. Remote Sensing of Environment, 2011, 115, 2686-2701.	4.6	69

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109	CONSISTENCIA ENTRE LOS MAPAS GLOBALES Y LOS MAPAS REGIONALES DE LA CUBIERTA TERRESTRE EN EL ESTADO DE MICHOACAN, MÃXICO. Revista Chapingo, Serie Ciencias Forestales Y Del Ambiente, 2011, XVII, 343-360.	0.2	1
110	REMOTE SENSING OF ORCHARDS: INFLUENCE OF CANOPY ARCHITECTURE AND OBSERVATIONAL CONDITIONS ON UNCERTAINTIES ASSOCIATED TO KEY CANOPY CHARACTERISTICS ESTIMATES BASED ON 3D MODELS. Acta Horticulturae, 2011, , 19-26.	0.1	0
111	Estimation of maize canopy properties from remote sensing by inversion of 1-D and 4-D models. Precision Agriculture, 2010, 11, 319-334.	3.1	25
112	Comparative analysis of three chemometric techniques for the spectroradiometric assessment of canopy chlorophyll content in winter wheat. Computers and Electronics in Agriculture, 2010, 73, 165-173.	3.7	199
113	The effective nature of LAI as measured from remote sensing observations. , 2010, , .		0
114	GAI estimates of row crops from downward looking digital photos taken perpendicular to rows at 57.5° zenith angle: Theoretical considerations based on 3D architecture models and application to wheat crops. Agricultural and Forest Meteorology, 2010, 150, 1393-1401.	1.9	137
115	The Use of Hyperspectral Imagery for Digital Soil Mapping in Mediterranean Areas. , 2010, , 93-102.		2
116	ESTIMACIÃN DEL ÃNDICE DE ÃREA FOLIAR EN LA RESERVA DE LA BIÃSFERA MARIPOSA MONARCA. Revista Fitotecnia Mexicana, 2010, 33, 169.	0.0	4
117	Enhanced Automated Canopy Characterization from Hyperspectral Data by a Novel Two Step Radiative Transfer Model Inversion Approach. Remote Sensing, 2009, 1, 1139-1170.	1.8	56
118	Optimization of image parameters using a hyperspectral library application to soil identification and moisture estimation. , 2009, , .		1
119	Albedo and LAI estimates from FORMOSAT-2 data for crop monitoring. Remote Sensing of Environment, 2009, 113, 716-729.	4.6	112
120	PROSPECT+SAIL models: A review of use for vegetation characterization. Remote Sensing of Environment, 2009, 113, S56-S66.	4.6	1,178
121	Optimal geometric configuration and algorithms for LAI indirect estimates under row canopies: The case of vineyards. Agricultural and Forest Meteorology, 2009, 149, 1307-1316.	1.9	40
122	Optimal band selection for future satellite sensor dedicated to soil science. , 2009, , .		1
123	Reflectance modeling of vineyards under water stress based on the coupling between 3D architecture and water balance model. Proceedings of SPIE, 2009, , .	0.8	0
124	Multivariate quantification of landscape spatial heterogeneity using variogram models. Remote Sensing of Environment, 2008, 112, 216-230.	4.6	57
125	Performances of neural networks for deriving LAI estimates from existing CYCLOPES and MODIS products. Remote Sensing of Environment, 2008, 112, 2789-2803.	4.6	125
126	Modeling temporal changes in surface spatial heterogeneity over an agricultural site. Remote Sensing of Environment, 2008, 112, 588-602.	4.6	20

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127	Estimation of soil clay and calcium carbonate using laboratory, field and airborne hyperspectral measurements. <i>Remote Sensing of Environment</i> , 2008, 112, 825-835.	4.6	235
128	Multitemporal-patch ensemble inversion of coupled surface-atmosphere radiative transfer models for land surface characterization. <i>Remote Sensing of Environment</i> , 2008, 112, 851-861.	4.6	68
129	Comparison of Metrics for the Classification of Soils Under Variable Geometrical Conditions Using Hyperspectral Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2008, 5, 755-759.	1.4	7
130	Estimating Canopy Characteristics from Remote Sensing Observations: Review of Methods and Associated Problems. , 2008, , 173-201.		144
131	Validation and intercomparison of global Leaf Area Index products derived from remote sensing data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	363
132	Estimation of leaf area and clumping indexes of crops with hemispherical photographs. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 644-655.	1.9	200
133	Intercomparison and sensitivity analysis of Leaf Area Index retrievals from LAI-2000, AccuPAR, and digital hemispherical photography over croplands. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1193-1209.	1.9	156
134	Slope correction for LAI estimation from gap fraction measurements. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1553-1562.	1.9	34
135	Effect of thinning on LAI variance in heterogeneous forests. <i>Forest Ecology and Management</i> , 2008, 256, 890-899.	1.4	31
136	Estimating Biophysical Variables at 250 M with Reconstructed EOS/MODIS Time Series to Monitor Fragmented Landscapes. , 2008, , .		5
137	Assessment of Unmanned Aerial Vehicles Imagery for Quantitative Monitoring of Wheat Crop in Small Plots. <i>Sensors</i> , 2008, 8, 3557-3585.	2.1	377
138	A method for aerosol correction from the spectral variation in the visible and near infrared: application to the MERIS sensor. <i>International Journal of Remote Sensing</i> , 2007, 28, 761-779.	1.3	8
139	Comparison of metrics to remove the influence of geometrical conditions on soil reflectance. , 2007, , .		0
140	Sensitivity of gap fraction to maize architectural characteristics based on 4D model simulations. <i>Agricultural and Forest Meteorology</i> , 2007, 143, 217-229.	1.9	39
141	Using First- and Second-Order Variograms for Characterizing Landscape Spatial Structures From Remote Sensing Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 1823-1834.	2.7	31
142	LAI and fAPAR CYCLOPES global products derived from VEGETATION. Part 2: validation and comparison with MODIS collection 4 products. <i>Remote Sensing of Environment</i> , 2007, 110, 317-331.	4.6	313
143	LAI, fAPAR and fCover CYCLOPES global products derived from VEGETATION. <i>Remote Sensing of Environment</i> , 2007, 110, 275-286.	4.6	734
144	Evaluation of the representativeness of networks of sites for the global validation and intercomparison of land biophysical products: proposition of the CEOS-BELMANIP. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 1794-1803.	2.7	187

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145	Validation of global moderate-resolution LAI products: a framework proposed within the CEOS land product validation subgroup. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1804-1817.	2.7	341
146	Special Issue on Global Land Product Validation. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1695-1697.	2.7	27
147	Simultaneous determination of aerosol- and surface characteristics from top-of-atmosphere reflectance using MERIS on board of ENVISAT. Advances in Space Research, 2006, 37, 2172-2177.	1.2	44
148	Characterization of seasonal variation of forest canopy in a temperate deciduous broadleaf forest, using daily MODIS data. Remote Sensing of Environment, 2006, 105, 189-203.	4.6	69
149	Influence of landscape spatial heterogeneity on the non-linear estimation of leaf area index from moderate spatial resolution remote sensing data. Remote Sensing of Environment, 2006, 105, 286-298.	4.6	149
150	Neural network estimation of LAI, fAPAR, fCover and LAI _{Cab} —Cab, from top of canopy MERIS reflectance data: Principles and validation. Remote Sensing of Environment, 2006, 105, 313-325.	4.6	331
151	Quantification of plant stress using remote sensing observations and crop models: the case of nitrogen management. Journal of Experimental Botany, 2006, 58, 869-880.	2.4	187
152	Quantifying spatial heterogeneity at the landscape scale using variogram models. Remote Sensing of Environment, 2006, 103, 81-96.	4.6	206
153	Monitoring Evapotranspiration over the Alpillles Test Site by Introducing Remote Sensing Data at Various Spatial Resolutions into a Dynamic SVAT Model. AIP Conference Proceedings, 2006, , .	0.3	0
154	PROSPECT+SAIL: 15 Years of Use for Land Surface Characterization. , 2006, , .		9
155	Use of coupled canopy structure dynamic and radiative transfer models to estimate biophysical canopy characteristics. Remote Sensing of Environment, 2005, 95, 115-124.	4.6	195
156	Estimating light absorption by chlorophyll, leaf and canopy in a deciduous broadleaf forest using MODIS data and a radiative transfer model. Remote Sensing of Environment, 2005, 99, 357-371.	4.6	189
157	Soil surface infiltration capacity classification based on the bi-directional reflectance distribution function sampled by aerial photographs. The case of vineyards in a Mediterranean area. Catena, 2005, 62, 94-110.	2.2	30
158	Validation of MSG vegetation products: part I. Field retrieval of LAI and FVC from hemispherical photographs. , 2004, , .		2
159	Modeling directional brightness temperature over a maize canopy in row structure. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 2290-2304.	2.7	44
160	Effect of senescent leaves on NDVI-based estimates of fAPAR: Experimental and modelling evidences. International Journal of Remote Sensing, 2004, 25, 5415-5427.	1.3	78
161	Review of methods for in situ leaf area index (LAI) determination. Agricultural and Forest Meteorology, 2004, 121, 37-53.	1.9	793
162	Review of methods for in situ leaf area index determination. Agricultural and Forest Meteorology, 2004, 121, 19-35.	1.9	1,164

#	ARTICLE	IF	CITATIONS
163	Understanding vegetation response to climate variability from space: recent advances towards the SPECTRA Mission. , 2004, , .		1
164	Intercalibration of vegetation indices from different sensor systems. Remote Sensing of Environment, 2003, 88, 412-422.	4.6	306
165	Retrieval of canopy biophysical variables from bidirectional reflectance. Remote Sensing of Environment, 2003, 84, 1-15.	4.6	545
166	Assessing the biomass dynamics of Andean bofedal and totora high-protein wetland grasses from NOAA/AVHRR. Remote Sensing of Environment, 2003, 85, 516-529.	4.6	86
167	Atmospheric corrections of single broadband channel and multidirectional airborne thermal infrared data: Application to the ReSeDA experiment. International Journal of Remote Sensing, 2003, 24, 3269-3290.	1.3	21
168	Training a neural network with a canopy reflectance model to estimate crop leaf area index. International Journal of Remote Sensing, 2003, 24, 4891-4905.	1.3	48
169	Evaluation of methods for soil surface moisture estimation from reflectance data. International Journal of Remote Sensing, 2003, 24, 2069-2083.	1.3	98
170	Assimilating optical and radar data into the STICS crop model for wheat. Agronomy for Sustainable Development, 2003, 23, 297-303.	0.8	40
171	Vineyard identification and description of spatial crop structure by per-field frequency analysis. International Journal of Remote Sensing, 2002, 23, 3311-3325.	1.3	36
172	Mapping short-wave albedo of agricultural surfaces using airborne POLDER data. Remote Sensing of Environment, 2002, 80, 36-46.	4.6	25
173	Relating soil surface moisture to reflectance. Remote Sensing of Environment, 2002, 81, 238-246.	4.6	379
174	Improving canopy variables estimation from remote sensing data by exploiting ancillary information. Case study on sugar beet canopies. Agronomy for Sustainable Development, 2002, 22, 205-215.	0.8	86
175	Temperature and emissivity extracted from airborne multi-channel data in the ReSeDA experiment. Agronomy for Sustainable Development, 2002, 22, 567-573.	0.8	10
176	Validation of neural net techniques to estimate canopy biophysical variables from remote sensing data. Agronomy for Sustainable Development, 2002, 22, 547-553.	0.8	65
177	Evaluation of kernel-driven BRDF models for the normalization of Alpillis/ReSeDA POLDER data. Agronomy for Sustainable Development, 2002, 22, 531-536.	0.8	6
178	Coupling canopy functioning and radiative transfer models for remote sensing data assimilation. Agricultural and Forest Meteorology, 2001, 108, 113-128.	1.9	129
179	Stochastic Modeling of Radiation Regime in Discontinuous Vegetation Canopies. Remote Sensing of Environment, 2000, 74, 125-144.	4.6	68
180	A 3D peach canopy model used to evaluate the effect of tree architecture and density on photosynthesis at a range of scales. Ecological Modelling, 2000, 128, 197-209.	1.2	34

#	ARTICLE	IF	CITATIONS
181	Developments in the 'validation' of satellite sensor products for the study of the land surface. International Journal of Remote Sensing, 2000, 21, 3383-3390.	1.3	237
182	Investigation of a model inversion technique to estimate canopy biophysical variables from spectral and directional reflectance data. Agronomy for Sustainable Development, 2000, 20, 3-22.	0.8	337
183	Evaluation of Canopy Biophysical Variable Retrieval Performances from the Accumulation of Large Swath Satellite Data. Remote Sensing of Environment, 1999, 70, 293-306.	4.6	168
184	Modeling maize canopy 3D architecture. Ecological Modelling, 1999, 122, 25-43.	1.2	68
185	Hemispherical reflectance and albedo estimates from the accumulation of across-track sun-synchronous satellite data. Journal of Geophysical Research, 1999, 104, 22221-22232.	3.3	33
186	Radiative transfer sensitivity to the accuracy of canopy structure description. The case of a maize canopy. Agronomy for Sustainable Development, 1999, 19, 241-254.	0.8	21
187	On spectral estimates of fresh leaf biochemistry. International Journal of Remote Sensing, 1998, 19, 1283-1297.	1.3	101
188	A dynamic model of maize 3D architecture: application to the parameterisation of the clumpiness of the canopy. Agronomy for Sustainable Development, 1998, 18, 609-626.	0.8	29
189	Crop residue estimation using multiband reflectance. Remote Sensing of Environment, 1997, 59, 530-536.	4.6	97
190	Vegetation water and dry matter contents estimated from top-of-the-atmosphere reflectance data: A simulation study. Remote Sensing of Environment, 1997, 61, 34-45.	4.6	115
191	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
192	Estimation of leaf water content and specific leaf weight from reflectance and transmittance measurements. Agronomy for Sustainable Development, 1997, 17, 455-464.	0.8	118
193	Optimization of soil-adjusted vegetation indices. Remote Sensing of Environment, 1996, 55, 95-107.	4.6	1,801
194	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
195	Geometrical modelling of soil bidirectional reflectance incorporating specular effects. International Journal of Remote Sensing, 1996, 17, 3691-3704.	1.3	15
196	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
197	The robustness of canopy gap fraction estimates from red and near-infrared reflectances: A comparison of approaches. Remote Sensing of Environment, 1995, 54, 141-151.	4.6	202
198	Modeling Canopy Spectral Properties to Retrieve Biophysical and Biochemical Characteristics. , 1994, , 145-167.		9

#	ARTICLE	IF	CITATIONS
199	Use of spectral analogy to evaluate canopy reflectance sensitivity to leaf optical properties. Remote Sensing of Environment, 1994, 48, 253-260.	4.6	95
200	Spatial and Temporal Variation of Light inside Peach Trees. Journal of the American Society for Horticultural Science, 1994, 119, 669-677.	0.5	32
201	About the soil line concept in remote sensing. Advances in Space Research, 1993, 13, 281-284.	1.2	78
202	A technique for determination of single leaf reflectance and transmittance in field studies. Remote Sensing of Environment, 1993, 43, 209-215.	4.6	40
203	Gap frequency and canopy architecture of sugar beet and wheat crops. Agricultural and Forest Meteorology, 1993, 65, 261-279.	1.9	29
204	Root biomass fraction as a function of growth degree days in wheat. Plant and Soil, 1992, 140, 137-144.	1.8	18
205	Modeling spectral and bidirectional soil reflectance. Remote Sensing of Environment, 1992, 41, 123-132.	4.6	239
206	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
207	Remote sensing and crop production models: present trends. ISPRS Journal of Photogrammetry and Remote Sensing, 1992, 47, 145-161.	4.9	159
208	Radiation use efficiency of pearl millet in the Sahelian zone. Agricultural and Forest Meteorology, 1991, 56, 93-110.	1.9	42
209	Polarization of Light by Vegetation. , 1991, , 191-228.		61
210	Potentials and limits of vegetation indices for LAI and APAR assessment. Remote Sensing of Environment, 1991, 35, 161-173.	4.6	1,514
211	The use of remotely sensed data in estimation of PAR use efficiency and biomass production of flooded rice. Remote Sensing of Environment, 1991, 38, 147-158.	4.6	45
212	PROSPECT: A model of leaf optical properties spectra. Remote Sensing of Environment, 1990, 34, 75-91.	4.6	1,841
213	Spectral estimates of the absorbed photosynthetically active radiation and light-use efficiency of a winter wheat crop subjected to nitrogen and water deficiencies. International Journal of Remote Sensing, 1990, 11, 1797-1808.	1.3	44
214	A ratio vegetation index adjusted for soil brightness. International Journal of Remote Sensing, 1990, 11, 727-740.	1.3	258
215	Crop biomass evaluation using radiometric measurements. Photogrammetria, 1989, 43, 241-256.	0.2	71
216	Estimation À partir de mesures de rÃ©flectance spectrale du rayonnement photosynthÃ©tiquement actif absorbÃ© par une culture de blÃ©. Agronomy for Sustainable Development, 1989, 9, 885-895.	0.8	34

#	ARTICLE	IF	CITATIONS
217	Complementarity of middle-infrared with visible and near-infrared reflectance for monitoring wheat canopies. <i>Remote Sensing of Environment</i> , 1988, 26, 213-225.	4.6	49
218	Review Article Procedures for the description of agricultural crops and soils in optical and microwave remote sensing studies. <i>International Journal of Remote Sensing</i> , 1987, 8, 427-439.	1.3	57
219	Monitoring wheat canopies with a high spectral resolution radiometer. <i>Remote Sensing of Environment</i> , 1987, 22, 367-378.	4.6	64
220	Suivi de la maturation de couverts de blé par radiométrie dans les domaines visible et proche infra-rouge. <i>Agronomy for Sustainable Development</i> , 1986, 6, 509-516.	0.8	14
221	Analyse des comportements spectraux dans l'olivette de Sfax (Tunisie). <i>Agronomy for Sustainable Development</i> , 1986, 6, 941-948.	0.8	4
222	Multi-sensor data fusion for deriving bio-physical variables in the cyclopes project. , 0, , .		4
223	Use of remote sensing data for nitrogen management in precision farming. , 0, , .		1
224	Understanding vegetation response to climate variability from space: the scientific objectives, the approach and the concept of the SPECTRA mission. , 0, , .		1
225	CYCLOPES algorithmic development for estimating biophysical products from large swath sensors. , 0, , .		4
226	Retrieval of vegetation properties from combined hyperspectral/multiangular optical measurements: results from the DAISEX campaigns. , 0, , .		0
227	Evaluation of SPOT/HRV data over temporal series acquired during the ADAM project. , 0, , .		1
228	Characterizing the spatial and temporal variability of biophysical variables of a wheat crop using hyper-spectral measurements. , 0, , .		2
229	CLAMP: accounting for leaf clumping in radiative transfer modelling. , 0, , .		0
230	Model inversion procedure for retrieving wheat biophysical variables from hyperspectral measurements. , 0, , .		0
231	Assessing the vertical distribution of leaf chlorophyll content in a maize crop. , 0, , .		2
232	Satellite derived leaf area index derived from SOPT time series in the ADAM project. , 0, , .		0
233	Assimilating high temporal frequency SPOT data to describe canopy functioning: the ADAM project. , 0, , .		1
234	A method for MERIS atmospheric correction based on the spectral and spatial observation. , 0, , .		3

#	ARTICLE	IF	CITATIONS
235	Towards accounting for leaf clumping within radiative transfer modeling. , 0, , .		0
236	How do current GORT models describe the bidirectional reflectance distribution function of forests?. , 0, , .		0
237	OPERATIONAL 333m BIOPHYSICAL PRODUCTS OF THE COPERNICUS GLOBAL LAND SERVICE FOR AGRICULTURE MONITORING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 53-56.	0.2	11