

Jose Moreno

List of Publications by Year in descending order

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77
papers

7,234
citations

81900

39
h-index

91884

69
g-index

77
all docs

77
docs citations

77
times ranked

5916
citing authors

#	ARTICLE	IF	CITATIONS
1	Linking chlorophyll a fluorescence to photosynthesis for remote sensing applications: mechanisms and challenges. <i>Journal of Experimental Botany</i> , 2014, 65, 4065-4095.	4.8	770
2	Land Surface Emissivity Retrieval From Different VNIR and TIR Sensors. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 316-327.	6.3	518
3	Optical remote sensing and the retrieval of terrestrial vegetation bio-geophysical properties – A review. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 108, 273-290.	11.1	482
4	Evaluation of Sentinel-2 Red-Edge Bands for Empirical Estimation of Green LAI and Chlorophyll Content. <i>Sensors</i> , 2011, 11, 7063-7081.	3.8	410
5	Machine learning regression algorithms for biophysical parameter retrieval: Opportunities for Sentinel-2 and -3. <i>Remote Sensing of Environment</i> , 2012, 118, 127-139.	11.0	400
6	Remote sensing of solar-induced chlorophyll fluorescence (SIF) in vegetation: 50 years of progress. <i>Remote Sensing of Environment</i> , 2019, 231, 111177.	11.0	372
7	ESA's sentinel missions in support of Earth system science. <i>Remote Sensing of Environment</i> , 2012, 120, 84-90.	11.0	278
8	Experimental Sentinel-2 LAI estimation using parametric, non-parametric and physical retrieval methods – A comparison. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 108, 260-272.	11.1	267
9	Quantifying Vegetation Biophysical Variables from Imaging Spectroscopy Data: A Review on Retrieval Methods. <i>Surveys in Geophysics</i> , 2019, 40, 589-629.	4.6	265
10	Remote sensing of sun-induced fluorescence to improve modeling of diurnal courses of gross primary production (GPP). <i>Global Change Biology</i> , 2010, 16, 171-186.	9.5	246
11	The FLUorescence EXplorer Mission Concept – ESA's Earth Explorer 8. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1273-1284.	6.3	238
12	Global sensitivity analysis of the SCOPE model: What drives simulated canopy-leaving sun-induced fluorescence?. <i>Remote Sensing of Environment</i> , 2015, 166, 8-21.	11.0	211
13	Retrieval of Vegetation Biophysical Parameters Using Gaussian Process Techniques. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 1832-1843.	6.3	201
14	Improved Fraunhofer Line Discrimination Method for Vegetation Fluorescence Quantification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2008, 5, 620-624.	3.1	158
15	Spectral band selection for vegetation properties retrieval using Gaussian processes regression. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 52, 554-567.	2.8	125
16	Gaussian processes uncertainty estimates in experimental Sentinel-2 LAI and leaf chlorophyll content retrieval. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 86, 157-167.	11.1	124
17	Multiple Cost Functions and Regularization Options for Improved Retrieval of Leaf Chlorophyll Content and LAI through Inversion of the PROSAIL Model. <i>Remote Sensing</i> , 2013, 5, 3280-3304.	4.0	110
18	Bidirectional sun-induced chlorophyll fluorescence emission is influenced by leaf structure and light scattering properties – A bottom-up approach. <i>Remote Sensing of Environment</i> , 2015, 158, 169-179.	11.0	99

#	ARTICLE	IF	CITATIONS
19	Toward a Semiautomatic Machine Learning Retrieval of Biophysical Parameters. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1249-1259.	4.9	98
20	Optimizing LUT-Based RTM Inversion for Semiautomatic Mapping of Crop Biophysical Parameters from Sentinel-2 and -3 Data: Role of Cost Functions. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 257-269.	6.3	97
21	How Universal Is the Relationship between Remotely Sensed Vegetation Indices and Crop Leaf Area Index? A Global Assessment. Remote Sensing, 2016, 8, 597.	4.0	91
22	Upward and downward solar-induced chlorophyll fluorescence yield indices of four tree species as indicators of traffic pollution in Valencia. Environmental Pollution, 2013, 173, 29-37.	7.5	89
23	Estimating chlorophyll content of crops from hyperspectral data using a normalized area over reflectance curve (NAOC). International Journal of Applied Earth Observation and Geoinformation, 2010, 12, 165-174.	2.8	88
24	Multi-Crop Green LAI Estimation with a New Simple Sentinel-2 LAI Index (SeLI). Sensors, 2019, 19, 904.	3.8	88
25	Evaluation of Atmospheric Correction Algorithms over Spanish Inland Waters for Sentinel-2 Multi Spectral Imagery Data. Remote Sensing, 2019, 11, 1469.	4.0	84
26	On the Semi-Automatic Retrieval of Biophysical Parameters Based on Spectral Index Optimization. Remote Sensing, 2014, 6, 4927-4951.	4.0	75
27	Emulation of Leaf, Canopy and Atmosphere Radiative Transfer Models for Fast Global Sensitivity Analysis. Remote Sensing, 2016, 8, 673.	4.0	73
28	Gaussian processes retrieval of leaf parameters from a multi-species reflectance, absorbance and fluorescence dataset. Journal of Photochemistry and Photobiology B: Biology, 2014, 134, 37-48.	3.8	70
29	An Emulator Toolbox to Approximate Radiative Transfer Models with Statistical Learning. Remote Sensing, 2015, 7, 9347-9370.	4.0	61
30	Brown and green LAI mapping through spectral indices. International Journal of Applied Earth Observation and Geoinformation, 2015, 35, 350-358.	2.8	61
31	Active Learning Methods for Efficient Hybrid Biophysical Variable Retrieval. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1012-1016.	3.1	60
32	Sun-Induced Chlorophyll Fluorescence III: Benchmarking Retrieval Methods and Sensor Characteristics for Proximal Sensing. Remote Sensing, 2019, 11, 962.	4.0	57
33	The High-Performance Airborne Imaging Spectrometer HyPlantâ€”From Raw Images to Top-of-Canopy Reflectance and Fluorescence Products: Introduction of an Automatized Processing Chain. Remote Sensing, 2019, 11, 2760.	4.0	53
34	Remote sensing of cyanobacterial blooms in a hypertrophic lagoon (Albufera of ValÃ©ncia, Eastern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 134305.	8.0	46
35	Retrieval of canopy water content of different crop types with two new hyperspectral indices: Water Absorption Area Index and Depth Water Index. International Journal of Applied Earth Observation and Geoinformation, 2018, 67, 69-78.	2.8	44
36	Compensation of Oxygen Transmittance Effects for Proximal Sensing Retrieval of Canopyâ€”Leaving Sunâ€”Induced Chlorophyll Fluorescence. Remote Sensing, 2018, 10, 1551.	4.0	44

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37	Gaussian processes retrieval of LAI from Sentinel-2 top-of-atmosphere radiance data. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 167, 289-304.	11.1	43
38	FLEX End-to-End Mission Performance Simulator. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4215-4223.	6.3	42
39	SCOPE-Based Emulators for Fast Generation of Synthetic Canopy Reflectance and Sun-Induced Fluorescence Spectra. Remote Sensing, 2017, 9, 927.	4.0	41
40	Quantifying vegetation biophysical variables from the Sentinel-3/FLEX tandem mission: Evaluation of the synergy of OLCI and FLORIS data sources. Remote Sensing of Environment, 2020, 251, 112101.	11.0	39
41	Global Sensitivity Analysis of Leaf-Canopy-Atmosphere RTMs: Implications for Biophysical Variables Retrieval from Top-of-Atmosphere Radiance Data. Remote Sensing, 2019, 11, 1923.	4.0	37
42	Prototyping Sentinel-2 green LAI and brown LAI products for cropland monitoring. Remote Sensing of Environment, 2021, 255, 112168.	11.0	37
43	Quantifying the Robustness of Vegetation Indices through Global Sensitivity Analysis of Homogeneous and Forest Leaf-Canopy Radiative Transfer Models. Remote Sensing, 2019, 11, 2418.	4.0	36
44	Regularized Multiresolution Spatial Unmixing for ENVISAT/MERIS and Landsat/TM Image Fusion. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 844-848.	3.1	35
45	Chlorophyll content mapping of urban vegetation in the city of Valencia based on the hyperspectral NAOC index. Ecological Indicators, 2014, 40, 34-42.	6.3	32
46	Retrieval of Evapotranspiration from Sentinel-2: Comparison of Vegetation Indices, Semi-Empirical Models and SNAP Biophysical Processor Approach. Agronomy, 2019, 9, 663.	3.0	30
47	Validation of Water Quality Monitoring Algorithms for Sentinel-2 and Sentinel-3 in Mediterranean Inland Waters with In Situ Reflectance Data. Water (Switzerland), 2021, 13, 686.	2.7	26
48	Emulation as an Accurate Alternative to Interpolation in Sampling Radiative Transfer Codes. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4918-4931.	4.9	25
49	In vivo photoprotection mechanisms observed from leaf spectral absorbance changes showing VISâ€“NIR slow-induced conformational pigment bed changes. Photosynthesis Research, 2019, 142, 283-305.	2.9	22
50	Impact of Atmospheric Inversion Effects on Solar-Induced Chlorophyll Fluorescence: Exploitation of the Apparent Reflectance as a Quality Indicator. Remote Sensing, 2017, 9, 622.	4.0	20
51	Comparative analysis of atmospheric radiative transfer models using the Atmospheric Look-up table Generator (ALG) toolbox (version 2.0). Geoscientific Model Development, 2020, 13, 1945-1957.	3.6	20
52	Towards the Combination of C2RCC Processors for Improving Water Quality Retrieval in Inland and Coastal Areas. Remote Sensing, 2022, 14, 1124.	4.0	17
53	Design of a Generic 3-D Scene Generator for Passive Optical Missions and Its Implementation for the ESAâ€™s FLEX/Sentinel-3 Tandem Mission. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1290-1307.	6.3	16
54	Gradient-Based Automatic Lookup Table Generator for Radiative Transfer Models. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1040-1048.	6.3	15

#	ARTICLE	IF	CITATIONS
55	Retrieving and Validating Leaf and Canopy Chlorophyll Content at Moderate Resolution: A Multiscale Analysis with the Sentinel-3 OLCI Sensor. <i>Remote Sensing</i> , 2021, 13, 1419.	4.0	14
56	Monitoring water transparency of a hypertrophic lake (the Albufera of València) using multitemporal Sentinel-2 satellite images. , 2020, 39, 373-386.		14
57	Combined dynamics of the 500–600 nm leaf absorption and chlorophyll fluorescence changes in vivo: Evidence for the multifunctional energy quenching role of xanthophylls. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148351.	1.0	13
58	Challenges in the atmospheric characterization for the retrieval of spectrally resolved fluorescence and PRI region dynamics from space. <i>Remote Sensing of Environment</i> , 2021, 254, 112226.	11.0	12
59	Systematic Assessment of MODTRAN Emulators for Atmospheric Correction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	6.3	11
60	Spectro-temporal reflectance surfaces: a new conceptual framework for the integration of remote-sensing data from multiple different sensors. <i>International Journal of Remote Sensing</i> , 2013, 34, 3699-3715.	2.9	10
61	Approximating Empirical Surface Reflectance Data through Emulation: Opportunities for Synthetic Scene Generation. <i>Remote Sensing</i> , 2019, 11, 157.	4.0	10
62	An Overview of the Regional Experiments for Land-atmosphere Exchanges 2012 (REFLEX 2012) Campaign. <i>Acta Geophysica</i> , 2015, 63, 1465-1484.	2.0	9
63	Multi-Season Phenology Mapping of Nile Delta Croplands Using Time Series of Sentinel-2 and Landsat 8 Green LAI. <i>Remote Sensing</i> , 2022, 14, 1812.	4.0	8
64	A New Algorithm for the Retrieval of Sun Induced Chlorophyll Fluorescence of Water Bodies Exploiting the Detailed Spectral Shape of Water-Leaving Radiance. <i>Remote Sensing</i> , 2021, 13, 329.	4.0	6
65	Impact of Structural, Photochemical and Instrumental Effects on Leaf and Canopy Reflectance Variability in the 500–600 nm Range. <i>Remote Sensing</i> , 2022, 14, 56.	4.0	6
66	Canopy chlorophyll content and LAI estimation from Sentinel-2: vegetation indices and Sentinel-2 Level-2A automatic products comparison. , 2019, , .		5
67	Phycocyanin Monitoring in Some Spanish Water Bodies with Sentinel-2 Imagery. <i>Water (Switzerland)</i> , 2021, 13, 2866.	2.7	5
68	Multitemporal Mosaicing for Sentinel-3/FLEX Derived Level-2 Product Composites. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 5439-5454.	4.9	5
69	Replacing radiative transfer models by surrogate approximations through machine learning. , 2015, , .		4
70	Estimating Organic and Inorganic Part of Suspended Solids from Sentinel 2 in Different Inland Waters. <i>Water (Switzerland)</i> , 2021, 13, 2453.	2.7	4
71	Sentinel-3/FLEX Biophysical Product Confidence Using Sentinel-2 Land-Cover Spatial Distributions. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 3447-3461.	4.9	3
72	Mar Menor lagoon (SE Spain) chlorophyll-a and turbidity estimation with Sentinel-2. , 2022, 41, 1.		3

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73	Photoprotection Dynamics Observed at Leaf Level from Fast Temporal Reflectance Changes. , 2018, , .		2
74	Guest Editorial: International Space Science Institute (ISSI) Workshop on Space-Borne Imaging Spectroscopy for Exploring the Earth's Ecosystems. Surveys in Geophysics, 2019, 40, 297-301.	4.6	2
75	Kernel image similarity criterion. , 2011, , .		1
76	Quantitative global mapping of terrestrial vegetation photosynthesis: The Fluorescence Explorer (FLEX) mission. , 2017, , .		1
77	Global sensitivity analysis of the A-SCOPE model in support of future FLEX fluorescence retrievals. , 2014, , .		0