Jose Moreno

List of Publications by Year
in descending order

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	Systematic Assessment of MODTRAN Emulators for Atmospheric Correction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	11
2	Mar Menor lagoon (SE Spain) chlorophyll-a and turbidity estimation with Sentinel-2. , 2022, 41, 1.		3
3	Towards the Combination of C2RCC Processors for Improving Water Quality Retrieval in Inland and Coastal Areas. Remote Sensing, 2022, 14, 1124.	4.0	17
4	Multi-Season Phenology Mapping of Nile Delta Croplands Using Time Series of Sentinel-2 and Landsat 8 Green LAI. Remote Sensing, 2022, 14, 1812.	4.0	8
5	Impact of Structural, Photochemical and Instrumental Effects on Leaf and Canopy Reflectance Variability in the 500â€"600 nm Range. Remote Sensing, 2022, 14, 56.	4.0	6
6	Prototyping Sentinel-2 green LAI and brown LAI products for cropland monitoring. Remote Sensing of Environment, 2021, 255, 112168.	11.0	37
7	A New Algorithm for the Retrieval of Sun Induced Chlorophyll Fluorescence of Water Bodies Exploiting the Detailed Spectral Shape of Water-Leaving Radiance. Remote Sensing, 2021, 13, 329.	4.0	6
8	Combined dynamics of the 500â€"600Ânm leaf absorption and chlorophyll fluorescence changes in vivo: Evidence for the multifunctional energy quenching role of xanthophylls. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148351.	1.0	13
9	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
10	Challenges in the atmospheric characterization for the retrieval of spectrally resolved fluorescence and PRI region dynamics from space. Remote Sensing of Environment, 2021, 254, 112226.	11.0	12
11	Retrieving and Validating Leaf and Canopy Chlorophyll Content at Moderate Resolution: A Multiscale Analysis with the Sentinel-3 OLCI Sensor. Remote Sensing, 2021, 13, 1419.	4.0	14
12	Estimating Organic and Inorganic Part of Suspended Solids from Sentinel 2 in Different Inland Waters. Water (Switzerland), 2021, 13, 2453.	2.7	4
13	Sentinel-3/FLEX Biophysical Product Confidence Using Sentinel-2 Land-Cover Spatial Distributions. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3447-3461.	4.9	3
14	Phycocyanin Monitoring in Some Spanish Water Bodies with Sentinel-2 Imagery. Water (Switzerland), 2021, 13, 2866.	2.7	5
15	Remote sensing of cyanobacterial blooms in a hypertrophic lagoon (Albufera of ValÃ¨ncia, Eastern) Tj ETQq1 1 0.784314 rgBT /Overlo 134305.	8.0	46
16	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
17	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
18	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

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19	Monitoring water transparency of a hypertrophic lake (the Albufera of ValÃ¨ncia) using multitemporal Sentinel-2 satellite images. , 2020, 39, 373-386.		14
20	Multitemporal Mosaicing for Sentinel-3/FLEX Derived Level-2 Product Composites. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5439-5454.	4.9	5
21	Quantifying Vegetation Biophysical Variables from Imaging Spectroscopy Data: A Review on Retrieval Methods. Surveys in Geophysics, 2019, 40, 589-629.	4.6	265
22	Evaluation of Atmospheric Correction Algorithms over Spanish Inland Waters for Sentinel-2 Multi Spectral Imagery Data. Remote Sensing, 2019, 11, 1469.	4.0	84
23	Remote sensing of solar-induced chlorophyll fluorescence (SIF) in vegetation: 50â€¯years of progress. Remote Sensing of Environment, 2019, 231, 111177.	11.0	372
24	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
25	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
26	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
27	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
28	Guest Editorial: International Space Science Institute (ISSI) Workshop on Space-Borne Imaging Spectroscopy for Exploring the Earthâ€™s Ecosystems. Surveys in Geophysics, 2019, 40, 297-301.	4.6	2
29	Sun-Induced Chlorophyll Fluorescence III: Benchmarking Retrieval Methods and Sensor Characteristics for Proximal Sensing. Remote Sensing, 2019, 11, 962.	4.0	57
30	Approximating Empirical Surface Reflectance Data through Emulation: Opportunities for Synthetic Scene Generation. Remote Sensing, 2019, 11, 157.	4.0	10
31	Multi-Crop Green LAI Estimation with a New Simple Sentinel-2 LAI Index (SeLI). Sensors, 2019, 19, 904.	3.8	88
32	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
33	Canopy chlorophyll content and LAI estimation from Sentinel-2: vegetation indices and Sentinel-2 Level-2A automatic products comparison. , 2019, , .		5
34	Gradient-Based Automatic Lookup Table Generator for Radiative Transfer Models. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1040-1048.	6.3	15
35	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
36	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

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37	Photoprotection Dynamics Observed at Leaf Level from Fast Temporal Reflectance Changes. , 2018, , .		2
38	Compensation of Oxygen Transmittance Effects for Proximal Sensing Retrieval of Canopy–Leaving Sun–Induced Chlorophyll Fluorescence. Remote Sensing, 2018, 10, 1551.	4.0	44
39	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
40	The FLuorescence EXplorer Mission Concept—ESA's Earth Explorer 8. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1273-1284.	6.3	238
41	Quantitative global mapping of terrestrial vegetation photosynthesis: The Fluorescence Explorer (FLEX) mission. , 2017, , .		1
42	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
43	SCOPE-Based Emulators for Fast Generation of Synthetic Canopy Reflectance and Sun-Induced Fluorescence Spectra. Remote Sensing, 2017, 9, 927.	4.0	41
44	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
45	Emulation of Leaf, Canopy and Atmosphere Radiative Transfer Models for Fast Global Sensitivity Analysis. Remote Sensing, 2016, 8, 673.	4.0	73
46	FLEX End-to-End Mission Performance Simulator. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4215-4223.	6.3	42
47	Spectral band selection for vegetation properties retrieval using Gaussian processes regression. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 554-567.	2.8	125
48	Active Learning Methods for Efficient Hybrid Biophysical Variable Retrieval. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1012-1016.	3.1	60
49	An Emulator Toolbox to Approximate Radiative Transfer Models with Statistical Learning. Remote Sensing, 2015, 7, 9347-9370.	4.0	61
50	Replacing radiative transfer models by surrogate approximations through machine learning. , 2015, , .		4
51	Global sensitivity analysis of the SCOPE model: What drives simulated canopy-leaving sun-induced fluorescence?. Remote Sensing of Environment, 2015, 166, 8-21.	11.0	211
52	Optical remote sensing and the retrieval of terrestrial vegetation bio-geophysical properties – A review. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 108, 273-290.	11.1	482
53	An Overview of the Regional Experiments for Land-atmosphere Exchanges 2012 (REFLEX 2012) Campaign. Acta Geophysica, 2015, 63, 1465-1484.	2.0	9
54	Experimental Sentinel-2 LAI estimation using parametric, non-parametric and physical retrieval methods – A comparison. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 108, 260-272.	11.1	267

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55	Bidirectional sun-induced chlorophyll fluorescence emission is influenced by leaf structure and light scattering properties â€" A bottom-up approach. Remote Sensing of Environment, 2015, 158, 169-179.	11.0	99
56	Brown and green LAI mapping through spectral indices. International Journal of Applied Earth Observation and Geoinformation, 2015, 35, 350-358.	2.8	61
57	On the Semi-Automatic Retrieval of Biophysical Parameters Based on Spectral Index Optimization. Remote Sensing, 2014, 6, 4927-4951.	4.0	75
58	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
59	Linking chlorophyll a fluorescence to photosynthesis for remote sensing applications: mechanisms and challenges. Journal of Experimental Botany, 2014, 65, 4065-4095.	4.8	770
60	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
61	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
62	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
63	Global sensitivity analysis of the A-SCOPE model in support of future FLEX fluorescence retrievals. , 2014, , .		0
64	Spectro-temporal reflectance surfaces: a new conceptual framework for the integration of remote-sensing data from multiple different sensors. International Journal of Remote Sensing, 2013, 34, 3699-3715.	2.9	10
65	Gaussian processes uncertainty estimates in experimental Sentinel-2 LAI and leaf chlorophyll content retrieval. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 86, 157-167.	11.1	124
66	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
67	Multiple Cost Functions and Regularization Options for Improved Retrieval of Leaf Chlorophyll Content and LAI through Inversion of the PROSAIL Model. Remote Sensing, 2013, 5, 3280-3304.	4.0	110
68	ESA's sentinel missions in support of Earth system science. Remote Sensing of Environment, 2012, 120, 84-90.	11.0	278
69	Machine learning regression algorithms for biophysical parameter retrieval: Opportunities for Sentinel-2 and -3. Remote Sensing of Environment, 2012, 118, 127-139.	11.0	400
70	Retrieval of Vegetation Biophysical Parameters Using Gaussian Process Techniques. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1832-1843.	6.3	201
71	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
72	Kernel image similarity criterion. , 2011, , .		1

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73	Evaluation of Sentinel-2 Red-Edge Bands for Empirical Estimation of Green LAI and Chlorophyll Content. Sensors, 2011, 11, 7063-7081.	3.8	410
74	Remote sensing of sun‐induced fluorescence to improve modeling of diurnal courses of gross primary production (GPP). Global Change Biology, 2010, 16, 171-186.	9.5	246
75	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
76	Land Surface Emissivity Retrieval From Different VNIR and TIR Sensors. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 316-327.	6.3	518
77	Improved Fraunhofer Line Discrimination Method for Vegetation Fluorescence Quantification. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 620-624.	3.1	158