

M Pilar Martin

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

3,026
citations

218662

26
h-index

168376

53
g-index

72
all docs

72
docs citations

72
times ranked

3289
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a framework for fire risk assessment using remote sensing and geographic information system technologies. <i>Ecological Modelling</i> , 2010, 221, 46-58.	2.5	392
2	Assessment of different spectral indices in the red-near-infrared spectral domain for burned land discrimination. <i>International Journal of Remote Sensing</i> , 2002, 23, 5103-5110.	2.9	278
3	Combining NDVI and surface temperature for the estimation of live fuel moisture content in forest fire danger rating. <i>Remote Sensing of Environment</i> , 2004, 92, 322-331.	11.0	266
4	Mapping burned areas from Landsat TM/ETM+ data with a two-phase algorithm: Balancing omission and commission errors. <i>Remote Sensing of Environment</i> , 2011, 115, 1003-1012.	11.0	197
5	Plant functional traits and canopy structure control the relationship between photosynthetic CO_2 uptake and far-red sun-induced fluorescence in a Mediterranean grassland under different nutrient availability. <i>New Phytologist</i> , 2017, 214, 1078-1091.	7.3	158
6	A model for predicting human-caused wildfire occurrence in the region of Madrid, Spain. <i>International Journal of Wildland Fire</i> , 2010, 19, 325.	2.4	124
7	Assessment of multitemporal compositing techniques of MODIS and AVHRR images for burned land mapping. <i>Remote Sensing of Environment</i> , 2005, 94, 450-462.	11.0	90
8	Assessment of Methods for Land Surface Temperature Retrieval from Landsat-5 TM Images Applicable to Multiscale Tree-Grass Ecosystem Modeling. <i>Remote Sensing</i> , 2014, 6, 4345-4368.	4.0	88
9	Ground-Based Optical Measurements at European Flux Sites: A Review of Methods, Instruments and Current Controversies. <i>Sensors</i> , 2011, 11, 7954-7981.	3.8	76
10	Ground-Based Optical Measurements at European Flux Sites: A Review of Methods, Instruments and Current Controversies. <i>Sensors</i> , 2011, 11, 7954-7981.	3.8	67
11	Using Near-Infrared-Enabled Digital Repeat Photography to Track Structural and Physiological Phenology in Mediterranean Tree-Grass Ecosystems. <i>Remote Sensing</i> , 2018, 10, 1293.	4.0	64
12	Evaluation of eddy covariance latent heat fluxes with independent lysimeter and sapflow estimates in a Mediterranean savannah ecosystem. <i>Agricultural and Forest Meteorology</i> , 2017, 236, 87-99.	4.8	60
13	Canopy clumping appraisal using terrestrial and airborne laser scanning. <i>Remote Sensing of Environment</i> , 2015, 161, 78-88.	11.0	57
14	Modeling temporal changes in human-caused wildfires in Mediterranean Europe based on Land Use-Land Cover interfaces. <i>Forest Ecology and Management</i> , 2016, 378, 68-78.	3.2	56
15	Multitemporal Modelling of Socio-Economic Wildfire Drivers in Central Spain between the 1980s and the 2000s: Comparing Generalized Linear Models to Machine Learning Algorithms. <i>PLoS ONE</i> , 2016, 11, e0161344.	2.5	54
16	Heatwave breaks down the linearity between sun-induced fluorescence and gross primary production. <i>New Phytologist</i> , 2022, 233, 2415-2428.	7.3	51
17	Drivers of spatio-temporal variability of carbon dioxide and energy fluxes in a Mediterranean savanna ecosystem. <i>Agricultural and Forest Meteorology</i> , 2018, 262, 258-278.	4.8	50
18	Using RPAS Multi-Spectral Imagery to Characterise Vigour, Leaf Development, Yield Components and Berry Composition Variability within a Vineyard. <i>Remote Sensing</i> , 2015, 7, 14458-14481.	4.0	47

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19	EUROSPEC: at the interface between remote-sensing and ecosystem CO ₂ flux measurements in Europe. <i>Biogeosciences</i> , 2015, 12, 6103-6124.	3.3	47
20	Globe-LFMC, a global plant water status database for vegetation ecophysiology and wildfire applications. <i>Scientific Data</i> , 2019, 6, 155.	5.3	41
21	Multiple-constraint inversion of SCOPE. Evaluating the potential of GPP and SIF for the retrieval of plant functional traits. <i>Remote Sensing of Environment</i> , 2019, 234, 111362.	11.0	35
22	Impacts of future land use/land cover on wildfire occurrence in the Madrid region (Spain). <i>Regional Environmental Change</i> , 2016, 16, 1047-1061.	2.9	32
23	Automatic Burned Land Mapping From MODIS Time Series Images: Assessment in Mediterranean Ecosystems. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 3401-3413.	6.3	27
24	Drought and heatwave impacts on semi-arid ecosystems' carbon fluxes along a precipitation gradient. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190519.	4.0	27
25	Nutrients and water availability constrain the seasonality of vegetation activity in a Mediterranean ecosystem. <i>Global Change Biology</i> , 2020, 26, 4379-4400.	9.5	27
26	The effect of pixel heterogeneity for remote sensing based retrievals of evapotranspiration in a semi-arid tree-grass ecosystem. <i>Remote Sensing of Environment</i> , 2021, 260, 112440.	11.0	27
27	Seasonal variation in grass water content estimated from proximal sensing and MODIS time series in a Mediterranean Fluxnet site. <i>Biogeosciences</i> , 2015, 12, 5523-5535.	3.3	26
28	Understanding the optical responses of leaf nitrogen in Mediterranean Holm oak (<i>Quercus ilex</i>) using field spectroscopy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014, 26, 105-118.	2.8	25
29	Using terrestrial laser scanning for characterizing tree structural parameters and their changes under different management in a Mediterranean open woodland. <i>Forest Ecology and Management</i> , 2021, 486, 118945.	3.2	25
30	Human Factors of Fire Occurrence in the Mediterranean. , 2009, , 149-170.		25
31	Fire detection and fire growth monitoring using satellite data. , 1999, , 101-122.		24
32	Improving the Performance of 3-D Radiative Transfer Model FLIGHT to Simulate Optical Properties of a Tree-Grass Ecosystem. <i>Remote Sensing</i> , 2018, 10, 2061.	4.0	24
33	Characterization of a Field Spectroradiometer for Unattended Vegetation Monitoring. Key Sensor Models and Impacts on Reflectance. <i>Sensors</i> , 2015, 15, 4154-4175.	3.8	23
34	Assessing the contribution of understory sun-induced chlorophyll fluorescence through 3-D radiative transfer modelling and field data. <i>Remote Sensing of Environment</i> , 2021, 253, 112195.	11.0	22
35	New approaches in multi-angular proximal sensing of vegetation: Accounting for spatial heterogeneity and diffuse radiation in directional reflectance distribution models. <i>Remote Sensing of Environment</i> , 2016, 187, 447-457.	11.0	21
36	Comparative analysis of CORINE and climate change initiative land cover maps in Europe: Implications for wildfire occurrence estimation at regional and local scales. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 78, 102-117.	2.8	21

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37	VIS-NIR, Red-Edge and NIR-Shoulder Based Normalized Vegetation Indices Response to Co-Varying Leaf and Canopy Structural Traits in Heterogeneous Grasslands. <i>Remote Sensing</i> , 2020, 12, 2254.	4.0	20
38	Seasonal Adaptation of the Thermal-Based Two-Source Energy Balance Model for Estimating Evapotranspiration in a Semiarid Tree-Grass Ecosystem. <i>Remote Sensing</i> , 2020, 12, 904.	4.0	20
39	Nitrogen and Phosphorus effect on Sun-Induced Fluorescence and Gross Primary Productivity in Mediterranean Grassland. <i>Remote Sensing</i> , 2019, 11, 2562.	4.0	19
40	Integration of Lightning- and Human-Caused Wildfire Occurrence Models. <i>Human and Ecological Risk Assessment (HERA)</i> , 2010, 16, 340-364.	3.4	18
41	Prototyping an artificial neural network for burned area mapping on a regional scale in Mediterranean areas using MODIS images. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2011, 13, 741-752.	2.8	18
42	A Live Fuel Moisture Content Product from Landsat TM Satellite Time Series for Implementation in Fire Behavior Models. <i>Remote Sensing</i> , 2020, 12, 1714.	4.0	18
43	Nonlinear Response in a Field Portable Spectroradiometer: Characterization and Effects on Output Reflectance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 920-928.	6.3	17
44	Assessing the potential of hyperspectral remote sensing for the discrimination of grassweeds in winter cereal crops. <i>International Journal of Remote Sensing</i> , 2011, 32, 49-67.	2.9	16
45	Discrimination of sterile oat (<i>Avena sterilis</i>) in winter barley (<i>Hordeum vulgare</i>) using QuickBird satellite images. <i>Crop Protection</i> , 2011, 30, 1363-1369.	2.1	15
46	Spatio-Temporal Relationships between Optical Information and Carbon Fluxes in a Mediterranean Tree-Grass Ecosystem. <i>Remote Sensing</i> , 2017, 9, 608.	4.0	15
47	senSCOPE: Modeling mixed canopies combining green and brown senesced leaves. Evaluation in a Mediterranean Grassland. <i>Remote Sensing of Environment</i> , 2021, 257, 112352.	11.0	15
48	A remote sensing-based three-source energy balance model to improve global estimations of evapotranspiration in semi-arid tree-grass ecosystems. <i>Global Change Biology</i> , 2022, 28, 1493-1515.	9.5	15
49	Characterizing integration time and gray-level-related nonlinearities in a NMOS sensor. <i>Applied Optics</i> , 2014, 53, 7778.	2.1	14
50	Evaluating the potential of LiDAR data for fire damage assessment: A radiative transfer model approach. <i>Remote Sensing of Environment</i> , 2020, 247, 111893.	11.0	13
51	How Nitrogen and Phosphorus Availability Change Water Use Efficiency in a Mediterranean Savanna Ecosystem. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006005.	3.0	13
52	Regional-scale burnt area mapping in Southern Europe using NOAA-AVHRR 1 km data. , 1999, , 139-155.		12
53	AVHRR multitemporal compositing techniques for burned land mapping. <i>International Journal of Remote Sensing</i> , 2005, 26, 1013-1018.	2.9	12
54	Performance of Singular Spectrum Analysis in Separating Seasonal and Fast Physiological Dynamics of Solar-Induced Chlorophyll Fluorescence and PRI Optical Signals. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006158.	3.0	11

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55	UAS-based high resolution mapping of evapotranspiration in a Mediterranean tree-grass ecosystem. <i>Agricultural and Forest Meteorology</i> , 2022, 321, 108981.	4.8	8
56	UAV RGB, thermal infrared and multispectral imagery used to investigate the control of terrain on the spatial distribution of dryland biocrust. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 2466-2484.	2.5	7
57	Short communication: Aqueous-acetone extraction improves the drawbacks of using dimethylsulfoxide as solvent for photometric pigment quantification in <i>Quercus ilex</i> leaves. <i>Forest Systems</i> , 2017, 26, eSC04.	0.3	4
58	Estimation of Canopy Gap Fraction from Terrestrial Laser Scanner Using an Angular Grid to Take Advantage of the Full Data Spatial Resolution. <i>Remote Sensing</i> , 2020, 12, 1596.	4.0	3
59	Evergreen broadleaf greenness and its relationship with leaf flushing, aging, and water fluxes. <i>Agricultural and Forest Meteorology</i> , 2022, 323, 109060.	4.8	3
60	Estimación de variables biofísicas del pastizal en un ecosistema de dehesa a partir de espectro-radiometría de campo e imágenes hiperespectrales aeroportadas. <i>Revista De Teledeteccion</i> , 2017, , 13.	0.6	2
61	Evolución del comportamiento espectral y la composición química en el dosel arbóreo de una dehesa. <i>Revista De Teledeteccion</i> , 2016, , 31.	0.6	2
62	Estimación de variables esenciales de la vegetación en un ecosistema de dehesa utilizando factores de reflectividad simulados estacionalmente. <i>Revista De Teledeteccion</i> , 2020, , 31.	0.6	2
63	¿PUEDEN LAS INTERFACES DE USOS DEL SUELO EXPLICAR LA OCURRENCIA DE INCENDIOS FORESTALES A ESCALA PROVINCIAL? LOS CASOS DE ZAMORA Y MADRID. <i>Geofocus Revista Internacional De Ciencia Y Tecnología De La Información Geográfica</i> , 0, 22, 71-95.	0.5	1
64	Análisis temporal de biomasa y stocks de carbono en un ecosistema de dehesa mediante imágenes Landsat, y su relación con factores climáticos. <i>Ciencias Espaciales</i> , 2015, 8, 190-211.	0.0	1
65	Assessing the Use of Multiple Constraints and Ancillary Data to Support Scope Model Inversion in a Experimental Grassland. , 2018, , .		0
66	Estimating Leaf and Canopy Biochemistry Variables in Mediterranean Holm OAK (<i>Quercus ILEX</i>) from Proximal and Airborne Hyperspectral Data. , 2018, , .		0