

Ana Teodoro

List of Publications by Year in descending order

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126
papers

1,889
citations

304701

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h-index

315719

38
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127
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127
docs citations

127
times ranked

1694
citing authors

#	ARTICLE	IF	CITATIONS
1	Land Use/Land Cover (LULC) Using Landsat Data Series (MSS, TM, ETM+ and OLI) in Azrou Forest, in the Central Middle Atlas of Morocco. <i>Environments - MDPI</i> , 2018, 5, 131.	3.3	127
2	Integration of Sentinel-1 and Sentinel-2 for Classification and LULC Mapping in the Urban Area of Belém, Eastern Brazilian Amazon. <i>Sensors</i> , 2019, 19, 1140.	3.8	107
3	Machine Learning Algorithms for Automatic Lithological Mapping Using Remote Sensing Data: A Case Study from Souk Arbaa Sahel, Sidi Ifni Inlier, Western Anti-Atlas, Morocco. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 248.	2.9	68
4	Forest fire risk maps: a GIS open source application “ a case study in Norwest of Portugal. <i>International Journal of Geographical Information Science</i> , 2013, 27, 699-720.	4.8	63
5	Study of the Urban Heat Island (UHI) Using Remote Sensing Data/Techniques: A Systematic Review. <i>Environments - MDPI</i> , 2021, 8, 105.	3.3	63
6	QPhenoMetrics: An open source software application to assess vegetation phenology metrics. <i>Computers and Electronics in Agriculture</i> , 2018, 148, 82-94.	7.7	57
7	Semi-Automatization of Support Vector Machines to Map Lithium (Li) Bearing Pegmatites. <i>Remote Sensing</i> , 2020, 12, 2319.	4.0	57
8	Remote sensing data in lithium (Li) exploration: A new approach for the detection of Li-bearing pegmatites. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 76, 10-25.	2.8	51
9	Comparison of performance of object-based image analysis techniques available in open source software (Spring and Orfeo Toolbox/Monteverdi) considering very high spatial resolution data. <i>Journal of Applied Remote Sensing</i> , 2016, 10, 016011.	1.3	48
10	Assessing soil erosion risk using RUSLE through a GIS open source desktop and web application. <i>Environmental Monitoring and Assessment</i> , 2016, 188, 351.	2.7	47
11	A Statistical and Spatial Analysis of Portuguese Forest Fires in Summer 2016 Considering Landsat 8 and Sentinel 2A Data. <i>Environments - MDPI</i> , 2019, 6, 36.	3.3	46
12	GIS-Based Expert Knowledge for Landslide Susceptibility Mapping (LSM): Case of Mostaganem Coast District, West of Algeria. <i>Sustainability</i> , 2021, 13, 630.	3.2	46
13	An investigation of the environmental determinants of asthma hospitalizations: An applied spatial approach. <i>Applied Geography</i> , 2014, 47, 10-19.	3.7	45
14	Assessment of Remote Sensing Data to Model PM10 Estimation in Cities with a Low Number of Air Quality Stations: A Case of Study in Quito, Ecuador. <i>Environments - MDPI</i> , 2019, 6, 85.	3.3	45
15	Detecting Lithium (Li) Mineralizations from Space: Current Research and Future Perspectives. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1785.	2.5	43
16	Retrieving TSM Concentration From Multispectral Satellite Data by Multiple Regression and Artificial Neural Networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 1342-1350.	6.3	42
17	Remote Sensing in Human Health: A 10-Year Bibliometric Analysis. <i>Remote Sensing</i> , 2017, 9, 1225.	4.0	42
18	Application of remote sensing data in gold exploration: targeting hydrothermal alteration using Landsat 8 imagery in northern Portugal. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	32

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19	Identification of beach hydromorphological patterns/forms through image classification techniques applied to remotely sensed data. <i>International Journal of Remote Sensing</i> , 2011, 32, 7399-7422.	2.9	30
20	Development of a QGIS Plugin to Obtain Parameters and Elements of Plantation Trees and Vineyards with Aerial Photographs. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 109.	2.9	28
21	Mapping Forest Species in the Central Middle Atlas of Morocco (Azrou Forest) through Remote Sensing Techniques. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 275.	2.9	26
22	CHAIR: automatic image registration based on correlation and Hough transform. <i>International Journal of Remote Sensing</i> , 2012, 33, 7936-7968.	2.9	24
23	Spatial estimation of chronic respiratory diseases based on machine learning procedures an approach using remote sensing data and environmental variables in Quito, Ecuador. <i>Applied Geography</i> , 2020, 123, 102273.	3.7	24
24	Interpretation of the Reflectance Spectra of Lithium (Li) Minerals and Pegmatites: A Case Study for Mineralogical and Lithological Identification in the Fregeneda-Almendra Area. <i>Remote Sensing</i> , 2021, 13, 3688.	4.0	24
25	Hybrid Machine Learning Approach for Gully Erosion Mapping Susceptibility at a Watershed Scale. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 401.	2.9	24
26	An Open Source GIS-Based Application for the Assessment of Groundwater Vulnerability to Pollution. <i>Environments - MDPI</i> , 2019, 6, 86.	3.3	23
27	Spatial estimation of surface ozone concentrations in Quito Ecuador with remote sensing data, air pollution measurements and meteorological variables. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 155.	2.7	23
28	A dynamic map application for the assessment of groundwater vulnerability to pollution. <i>Environmental Earth Sciences</i> , 2015, 74, 2315-2327.	2.7	22
29	Lithium Potential Mapping Using Artificial Neural Networks: A Case Study from Central Portugal. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1046.	2.0	21
30	A Semi-Automatic Approach for the Extraction of Sandy Bodies (Sand Spits) From IKONOS-2 Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012, 5, 634-642.	4.9	20
31	Improving NDVI by removing cirrus clouds with optical remote sensing data from Landsat-8 a case study in Quito, Ecuador. <i>Remote Sensing Applications: Society and Environment</i> , 2019, 13, 257-274.	1.5	20
32	Open-source GIS application for UAV photogrammetry based on MicMac. <i>International Journal of Remote Sensing</i> , 2017, 38, 3181-3202.	2.9	19
33	Urban Ecosystem Services Quantification through Remote Sensing Approach: A Systematic Review. <i>Environments - MDPI</i> , 2019, 6, 51.	3.3	19
34	Modeling and mapping of soil salinity in Tafilalet plain (Morocco). <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	19
35	Modeling of the Douro River Plume Size, Obtained Through Image Segmentation of MERIS Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2009, 6, 87-91.	3.1	17
36	Radio Astronomy Demonstrator: Assessment of the Appropriate Sites through a GIS Open Source Application. <i>ISPRS International Journal of Geo-Information</i> , 2016, 5, 209.	2.9	17

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37	Unmanned Aerial Systems (UAS) for environmental applications special issue preface. International Journal of Remote Sensing, 2018, 39, 4845-4851.	2.9	17
38	Potential of Sentinel-2 data in the detection of lithium (Li)-bearing pegmatites: a study case. , 2018, , .		17
39	Constraints and potentials of remote sensing data/techniques applied to lithium (Li)-pegmatites. Canadian Mineralogist, 2019, 57, 723-725.	1.0	16
40	Tools for Remote Exploration: A Lithium (Li) Dedicated Spectral Library of the Fregenedaâ€“Almendra Apliteâ€“Pegmatite Field. Data, 2021, 6, 33.	2.3	16
41	Quantification of the Total Suspended Matter Concentration around the Sea Breaking Zone from In Situ Measurements and Terra/Aster Data. Marine Georesources and Geotechnology, 2007, 25, 67-80.	2.1	15
42	Distributed Temperature Measurement in a Self-Burning Coal Waste Pile through a GIS Open Source Desktop Application. ISPRS International Journal of Geo-Information, 2017, 6, 87.	2.9	15
43	An easy, accurate and efficient procedure to create forest fire risk maps using the SEXTANTE plugin Modeler. Journal of Forestry Research, 2016, 27, 1361-1372.	3.6	14
44	Processing Image to Geographical Information Systems (PI2GIS)â€“A Learning Tool for QGIS. Education Sciences, 2018, 8, 83.	2.6	14
45	QVigourMap: A GIS Open Source Application for the Creation of Canopy Vigour Maps. Agronomy, 2021, 11, 952.	3.0	14
46	Statistical Techniques for Correlating Total Suspended Matter Concentration with Seawater Reflectance Using Multispectral Satellite Data. Journal of Coastal Research, 2008, 4, 40-49.	0.3	13
47	Applicability of data mining algorithms in the identification of beach features/patterns on high-resolution satellite data. Journal of Applied Remote Sensing, 2015, 9, 095095.	1.3	13
48	ECOAL Projectâ€“Delivering Solutions for Integrated Monitoring of Coal-Related Fires Supported on Optical Fiber Sensing Technology. Applied Sciences (Switzerland), 2017, 7, 956.	2.5	13
49	An Integrated Multi-Approach to Environmental Monitoring of a Self-Burning Coal Waste Pile: The SÃ£o Pedro da Cova Mine (Porto, Portugal) Study Case. Environments - MDPI, 2021, 8, 48.	3.3	13
50	Estimating Invasion Success by Non-Native Trees in a National Park Combining WorldView-2 Very High Resolution Satellite Data and Species Distribution Models. Diversity, 2017, 9, 6.	1.7	12
51	GREENPEG â€“ exploration for pegmatite minerals to feed the energy transition: first steps towards the Green Stone Age. Geological Society Special Publication, 2023, 526, 193-218.	1.3	12
52	Ecological niche models improve home range estimations. Journal of Zoology, 2021, 313, 145-157.	1.7	11
53	Remote sensing and GIS applications in earth and environmental systems sciences. SN Applied Sciences, 2021, 3, 1.	2.9	11
54	Morphological and statistical analysis of the impact of breakwaters under construction on a sand spit area (Douro River estuary). Journal of Coastal Conservation, 2014, 18, 177-191.	1.6	10

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55	Optical Satellite Remote Sensing of the Coastal Zone Environment – An Overview. , 2016, , .		10
56	Stream sediment analysis for Lithium (Li) exploration in the Douro region (Portugal): A comparative study of the spatial interpolation and catchment basin approaches. Journal of Geochemical Exploration, 2022, 236, 106978.	3.2	10
57	Correlation Analysis of Water Wave Reflectance and Local TSM Concentrations in the Breaking Zone with Remote Sensing Techniques. Journal of Coastal Research, 2007, 236, 1491-1497.	0.3	9
58	Deriving phenological metrics from NDVI through an open source tool developed in QGIS. Proceedings of SPIE, 2014, , .	0.8	9
59	Performance of Remotely Sensed Soil Moisture for Temporal and Spatial Analysis of Rainfall over São Francisco River Basin, Brazil. Geosciences (Switzerland), 2019, 9, 144.	2.2	9
60	GIS Open-Source Plugins Development: A 10-Year Bibliometric Analysis on Scientific Literature. Geomatics, 2021, 1, 206-245.	1.9	9
61	Identification, Characterization and Analysis of the Douro River Plume From MERIS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1553-1563.	4.9	8
62	Port Infrastructure Control (Madeira Island, Portugal) through a Hybrid Monitoring System (GNSS) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	2.1	7
63	Geospatial Analysis of Environmental Atmospheric Risk Factors in Neurodegenerative Diseases: A Systematic Review. International Journal of Environmental Research and Public Health, 2020, 17, 8414.	2.6	7
64	Comparing Hydric Erosion Soil Loss Models in Rainy Mountainous and Dry Flat Regions in Portugal. Land, 2021, 10, 554.	2.9	7
65	Evaluating the performance of support vector machines (SVMs) and random forest (RF) in Li-pegmatite mapping: preliminary results. , 2019, , .		7
66	Remote sensing techniques to detect areas with potential for lithium exploration in Minas Gerais, Brazil. , 2019, , .		7
67	Remote Sensing Technologies for the Assessment of Marine and Coastal Ecosystems. Coastal Research Library, 2016, , 69-104.	0.4	6
68	Spatio-temporal variability analysis of the Douro River plume through MERIS data for one hydrological year. Proceedings of SPIE, 2011, , .	0.8	5
69	Exploration of the OBIA methods available in SPRING noncommercial software to UAV data processing. , 2014, , .		5
70	Assessing Groundwater Vulnerability to Pollution through the DRASTIC Method. Lecture Notes in Computer Science, 2014, , 386-400.	1.3	5
71	Criterion definition for the identification of physical-geographical boundaries of Khorezm oasis through remotely sensed data. Environmental Monitoring and Assessment, 2016, 188, 35.	2.7	5
72	An Open Source GIS Application for Spatial Assessment of Health Care Quality Indicators. ISPRS International Journal of Geo-Information, 2021, 10, 264.	2.9	5

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73	Characterization of lithium (Li) minerals from the Fregeneda-Almendra region through laboratory spectral measurements: a comparative study. , 2020, , .		5
74	Performance of commercial and open source remote sensing/image processing software for land cover/use purposes. , 2012, , .		4
75	Multi-Scale Approach using Remote Sensing Techniques for Lithium Pegmatite Exploration: First Results. , 2020, , .		4
76	Reflectance spectroscopy to validate remote sensing data/algorithms for satellite-based lithium (Li) exploration (Central East Portugal). , 2020, , .		4
77	Comparing different techniques of satellite imagery classification to mineral mapping pegmatite of		4
78	Extraction of Estuarine/Coastal Environmental Bodies from Satellite Data through Image Segmentation Techniques. , 2011, , .		3
79	Coastal morphodynamic features/patterns analisys through a video-based system and image processing. , 2012, , .		3
80	Correlation between the habitats productivity and species richness (amphibians and reptiles) in Portugal through remote sensed data. , 2013, , .		3
81	An integrated and open source GIS environmental management system for a protected area in the south of Portugal. Proceedings of SPIE, 2015, , .	0.8	3
82	Analyzing land surface temperature variations during Fogo Island (Cape Verde) 2014-2015 eruption with Landsat 8 images. Proceedings of SPIE, 2016, , .	0.8	3
83	A Hybrid CA-ANN-Fuzzy Model for Simulating Coastal Changing Patterns. Coastal Research Library, 2018, , 197-217.	0.4	3
84	Spatially Explicit Models in Local Dynamics Analysis: The Potential Natural Vegetation (PNV) as a Tool for Beach and Coastal Management. Coastal Research Library, 2018, , 159-177.	0.4	3
85	Remote Sensing Data and Image Classification Algorithms in the Identification of Beach Patterns. Coastal Research Library, 2018, , 579-587.	0.4	3
86	GIS and remote sensing based method to extract fluvial terraces for archaeological purposes. , 2018, , .		3
87	Estimation of the Douro River plume dimension based on image segmentation of MERIS scenes. Proceedings of SPIE, 2008, , .	0.8	2
88	Beach Hydromorphological Analysis Through Remote Sensing. Journal of Coastal Research, 2011, 61, 44-51.	0.3	2
89	Lithium (Li) Pegmatite Mapping using Artificial Neural Networks (ANNS): Preliminary Results. , 2020, , .		2
90	Evaluation of forest fires in Portugal Mainland during 2016 summer considering different satellite datasets. , 2017, , .		2

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91	Forecasting Asthma Hospital Admissions from Remotely Sensed Environmental Data. , 2017, , .		2
92	Pegmatite spectral behavior considering ASTER and Landsat 8 OLI data in Naipa and Muiane mines (Alto) Tj ETQq0 0 0 rgBT /Qverlock 10		2
93	Evaluating the potential of Sentinel-2 MSI and Landsat-8 OLI data fusion for land cover mapping in Brazilian Amazon. , 2018, , .		2
94	Estimation of Nitrogen in the Soil of Balsa Trees in Ecuador Using Unmanned Aerial Vehicles. , 2020, , .		2
95	A GIS Plugin for Susceptibility Modeling: Case Study of Wildfires in Vila Nova de Foz CÃa. Land, 2022, 11, 1093.	2.9	2
96	Beach hydromorphological classification through image classification techniques applied to remotely sensed data. , 2009, , .		1
97	Land use/land cover changes and flooding surface estimation in Alqueva (Portugal) using 18 years of Landsat data. , 2011, , .		1
98	The use of remotely sensed environmental data in the study of asthma disease. , 2012, , .		1
99	The use of decision trees in the classification of beach forms/patterns on IKONOS-2 data. Proceedings of SPIE, 2013, , .	0.8	1
100	Evaluation of remote sensing data potential in the geological exploration of Freixeda area (Mirandela,) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	1
101	A study on the quality of the vegetation index obtained from MODIS data. , 2015, , .		1
102	The applicability of FORMOSAT-2 images to coastal waters/bodies classification. , 2015, , .		1
103	Breakwater control system and structural analysis: physical and numerical modelling (Port of) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.6	1
104	Spatio-temporal analysis of preterm birth in Portugal and its relation with environmental variables. , 2016, , .		1
105	Assessment of Potential Impacts in Tourism of the Increase in the Average Sea Level. Coastal Research Library, 2018, , 349-371.	0.4	1
106	Serological Evidence of <i>Rickettsia</i> Exposure among Patients with Unknown Fever Origin in Angola, 2016-2017. Interdisciplinary Perspectives on Infectious Diseases, 2020, 2020, 1-5.	1.4	1
107	Comparative analysis of QGIS plugins for Web Maps creation. Granja, 2021, 34, 8-26.	0.3	1
108	Evaluation of automatic cloud removal method for high elevation areas in Landsat 8 OLI images to improve environmental indexes computation. , 2017, , .		1

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109	Validation of Remote Sensing Techniques in Greenfield Exploration Areas for Lithium (Li) in Central Portugal: A Study Case. , 2021, , .		1
110	Comparison of satellite remote sensing data in the retrieve of PM10 air pollutant over Quito, Ecuador. , 2018, , .		1
111	A semi-automatic approach to derive land cover classification in soil loss models. , 2019, , .		1
112	Evaluation of total suspended matter concentration in wave breaking zone using multispectral satellite images. , 2004, 5569, 168.		0
113	Quantitative and qualitative coastal water quality parameters monitoring using field data and aerial photography: Porto (Portugal) beaches. , 2010, , .		0
114	Bathymetric estimation through principal components analysis using IKONOS-2 data. , 2010, , .		0
115	A first reference dataset for the evaluation of geometric correction methods under the scope of remote sensing applications. Proceedings of SPIE, 2011, , .	0.8	0
116	Independent Component Analysis (ICA) performance to bathymetric estimation using high resolution satellite data in an estuarine environment. Proceedings of SPIE, 2014, , .	0.8	0
117	MicMac GIS application: free open source. , 2016, , .		0
118	Remote sensing as a tool to analyse lizards behaviour. Proceedings of SPIE, 2016, , .	0.8	0
119	A Web GIS application to assess the groundwater vulnerability to pollution using the DRASTIC index. , 2021, , .		0
120	A GIS open-source application to enhance the identification of archaeological crop marks using remote sensing data. , 2021, , .		0
121	Monitoring Phosphate Levels Using Unmanned Aerial Vehicles on Geothermal Water Pools. , 2021, , .		0
122	Forecasting the local risk for asthma hospitalizations from georeferenced environmental data "a pilot model. , 2017, , .		0
123	PI2GIS: processing image to geographical information systems, a learning tool for QGIS. , 2017, , .		0
124	Remote sensing and GIS combination to evaluate the ecosystems' conditions in "Serras do Porto". , 2018, , .		0
125	Modeling the prevalence of respiratory chronic diseases risk using satellite images and environmental data. , 2019, , .		0
126	Evaluation of the didactic potential of geographical information contents considering Spatial Thinking Ability Test (STAT). , 2020, , .		0