

Teodosio Lacava

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5617592/publications.pdf>

Version: 2024-02-01

78
papers

1,746
citations

304743

22
h-index

302126

39
g-index

83
all docs

83
docs citations

83
times ranked

1800
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil moisture estimation through ASCAT and AMSR-E sensors: An intercomparison and validation study across Europe. <i>Remote Sensing of Environment</i> , 2011, 115, 3390-3408.	11.0	483
2	Toward the estimation of river discharge variations using MODIS data in ungauged basins. <i>Remote Sensing of Environment</i> , 2013, 136, 47-55.	11.0	88
3	Improving volcanic ash cloud detection by a robust satellite technique. <i>Remote Sensing of Environment</i> , 2004, 90, 1-22.	11.0	83
4	A First Assessment of the SMOS Soil Moisture Product With In Situ and Modeled Data in Italy and Luxembourg. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 1612-1622.	6.3	73
5	Long-Term RST Analysis of Anomalous TIR Sequences in Relation with Earthquakes Occurred in Greece in the Period 2004-2013. <i>Pure and Applied Geophysics</i> , 2016, 173, 285-303.	1.9	55
6	Improving soil wetness variations monitoring from passive microwave satellite data: The case of April 2000 Hungary flood. <i>Remote Sensing of Environment</i> , 2005, 96, 135-148.	11.0	54
7	Using RST approach and EOS-MODIS radiances for monitoring seismically active regions: a study on the 6 April 2009 Abruzzo earthquake. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 239-249.	3.6	53
8	Coupling MODIS and Radar Altimetry Data for Discharge Estimation in Poorly Gauged River Basins. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 141-148.	4.9	52
9	A study on the Abruzzo 6 April 2009 earthquake by applying the RST approach to 15 years of AVHRR TIR observations. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 395-406.	3.6	42
10	A multi-temporal analysis of AMSR-E data for flood and discharge monitoring during the 2008 flood in Iowa. <i>Hydrological Processes</i> , 2011, 25, 2623-2634.	2.6	37
11	Assessing RAT (Robust AVHRR Techniques) performances for volcanic ash cloud detection and monitoring in near real-time: The 2002 eruption of Mt. Etna (Italy). <i>Remote Sensing of Environment</i> , 2007, 107, 440-454.	11.0	36
12	Monitoring soil wetness variations by means of satellite passive microwave observations: the HYDROPTIMET study cases. <i>Natural Hazards and Earth System Sciences</i> , 2005, 5, 583-592.	3.6	29
13	The Contribution of Multi-Sensor Infrared Satellite Observations to Monitor Mt. Etna (Italy) Activity during May to August 2016. <i>Remote Sensing</i> , 2018, 10, 1948.	4.0	26
14	Soil moisture variations monitoring by AMSU-based soil wetness indices: A long-term inter-comparison with ground measurements. <i>Remote Sensing of Environment</i> , 2010, 114, 2317-2325.	11.0	25
15	On the Exportability of Robust Satellite Techniques (RST) for Active Volcano Monitoring. <i>Remote Sensing</i> , 2010, 2, 1575-1588.	4.0	24
16	Improving flood monitoring by the Robust AVHRR Technique (RAT) approach: the case of the April 2000 Hungary flood. <i>International Journal of Remote Sensing</i> , 2010, 31, 2043-2062.	2.9	24
17	Robust Satellite Techniques for oil spill detection and monitoring using AVHRR thermal infrared bands. <i>International Journal of Remote Sensing</i> , 2011, 32, 4107-4129.	2.9	24
18	An improved RST approach for timely alert and Near Real Time monitoring of oil spill disasters by using AVHRR data. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 1281-1291.	3.6	24

#	ARTICLE	IF	CITATIONS
19	Space-time soil wetness variations monitoring by a multi-temporal microwave satellite records analysis. <i>Physics and Chemistry of the Earth</i> , 2006, 31, 1274-1283.	2.9	23
20	Robust Satellite Techniques (RST) for Oil Spill Detection and Monitoring. , 2007, , .		23
21	Inferring phases of thermal unrest at Mt. Asama (Japan) from infrared satellite observations. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 237-238, 10-18.	2.1	23
22	Results of the first Wave Glider experiment in the southern Tyrrhenian Sea. <i>Advances in Oceanography and Limnology</i> , 2016, 7, .	0.6	23
23	A MODIS-Based Robust Satellite Technique (RST) for Timely Detection of Oil Spilled Areas. <i>Remote Sensing</i> , 2017, 9, 128.	4.0	23
24	Modeling and Multi-Temporal Characterization of Total Suspended Matter by the Combined Use of Sentinel 2-MSI and Landsat 8-OLI Data: The Pertusillo Lake Case Study (Italy). <i>Remote Sensing</i> , 2020, 12, 2147.	4.0	23
25	A review of RSTVOLC, an original algorithm for automatic detection and near-real-time monitoring of volcanic hotspots from space. <i>Geological Society Special Publication</i> , 2016, 426, 55-72.	1.3	22
26	A satellite-based analysis of the Val d'Agri Oil Center (southern Italy) gas flaring emissions. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 2783-2793.	3.6	19
27	Gas Flaring: A Review Focused On Its Analysis From Space. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2021, 9, 258-281.	9.6	18
28	Mt. Etna Paroxysms of February-April 2021 Monitored and Quantified through a Multi-Platform Satellite Observing System. <i>Remote Sensing</i> , 2021, 13, 3074.	4.0	17
29	On the Potential of Robust Satellite Techniques Approach for SPM Monitoring in Coastal Waters: Implementation and Application over the Basilicata Ionian Coastal Waters Using MODIS-Aqua. <i>Remote Sensing</i> , 2016, 8, 922.	4.0	16
30	Two geologic systems providing terrestrial analogues for the exploration of sulfate deposits on Mars: Initial spectral characterization. <i>Planetary and Space Science</i> , 2009, 57, 614-627.	1.7	15
31	On the use of AMSU-based products for the description of soil water content at basin scale. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2839-2852.	4.9	13
32	Thermal Monitoring of Eyjafjall Volcano Eruptions by Means of Infrared MODIS Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 3393-3401.	4.9	13
33	Investigating the chlorophyll-a variability in the Gulf of Taranto (North-western Ionian Sea) by a multi-temporal analysis of MODIS-Aqua Level 3/Level 2 data. <i>Continental Shelf Research</i> , 2018, 155, 34-44.	1.8	12
34	On the Potential of the RST-FLARE Algorithm for Gas Flaring Characterization from Space. <i>Sensors</i> , 2018, 18, 2466.	3.8	12
35	Assessing the potential of <i>SWVI</i> (Soil Wetness Variation Index) for hydrological risk monitoring by means of satellite microwave observations. <i>Advances in Geosciences</i> , 0, 2, 221-227.	12.0	12
36	A Multitemporal Investigation of AMSR-E C-Band Radio-Frequency Interference. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 2007-2015.	6.3	10

#	ARTICLE	IF	CITATIONS
37	Issues and Possible Improvements in Winter Fires Detection by Satellite Radiances Analysis: Lesson Learned in Two Regions of Northern Italy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3297-3313.	4.9	10
38	Evaluation of MODIS's Aqua Chlorophyll-a Algorithms in the Basilicata Ionian Coastal Waters. Remote Sensing, 2018, 10, 987.	4.0	10
39	A Daytime Multisensor Satellite System for Global Gas Flaring Monitoring. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	10
40	Advanced multi-temporal passive microwave data analysis for soil wetness monitoring and flood risk forecast. , 2009, , .		9
41	Robust satellite techniques for monitoring volcanic eruptions. Annals of Geophysics, 2009, 44, .	1.0	9
42	Integrated Satellite System for Fire Detection and Prioritization. Remote Sensing, 2022, 14, 335.	4.0	8
43	Monitoring Soil Wetness Variation by a Multi-Temporal Passive Microwave Technique. , 2007, , .		7
44	Near real time oil spill detection and monitoring using satellite optical data. , 2009, , .		7
45	A Multi-Sensor Exportable Approach for Automatic Flooded Areas Detection and Monitoring by a Composite Satellite Constellation. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2136-2149.	6.3	7
46	On the potential of an RST-based analysis of the MODIS-derived chl-a product over Condor seamount and surrounding areas (Azores, NE Atlantic). Ocean Dynamics, 2016, 66, 1165-1180.	2.2	7
47	On the Potential of RST-FLOOD on Visible Infrared Imaging Radiometer Suite Data for Flooded Areas Detection. Remote Sensing, 2019, 11, 598.	4.0	7
48	Improving the RST-OIL Algorithm for Oil Spill Detection under Severe Sun Glint Conditions. Remote Sensing, 2019, 11, 2762.	4.0	7
49	The VIIRS-Based RST-FLARE Configuration: The Val d'Agri Oil Center Gas Flaring Investigation in Between 2015-2019. Remote Sensing, 2020, 12, 819.	4.0	7
50	Real time monitoring of flooded areas by a multi-temporal analysis of optical satellite data. , 2009, , .		6
51	Satellite oil spill detection and monitoring in the optical range. , 2010, , .		6
52	A multi-sensors analysis of RST-based thermal anomalies in the case of the Abruzzo earthquake. , 2010, , .		6
53	A New RST-Based Approach for Continuous Oil Spill Detection in TIR Range: The Case of the Deepwater Horizon Platform in the Gulf of Mexico. Geophysical Monograph Series, 2011, , 19-31.	0.1	6
54	River discharge estimation through MODIS data. , 2011, , .		6

#	ARTICLE	IF	CITATIONS
55	Remote Sensing Applications in Coastal Areas. <i>Sensors</i> , 2020, 20, 2673.	3.8	6
56	A multi-sensor (SMOS, AMSR-E and ASCAT) satellite-based soil moisture products inter-comparison. , 2012, , .		5
57	<title>Pollino Project Action D: a multiscale approach in the space-time domain to environmental risk monitoring</title>. , 2002, , .		4
58	T-FLaP advances: instrumental and operative implementation. <i>Journal of Operational Oceanography</i> , 2016, 9, s185-s192.	1.2	4
59	Analyzing the December 2013 Metaponto Plain (Southern Italy) Flood Event by Integrating Optical Sensors Satellite Data. <i>Hydrology</i> , 2018, 5, 43.	3.0	4
60	Assessing Performance of the RSTVOLC Multi-Temporal Algorithm in Detecting Subtle Hot Spots at Oldoinyo Lengai (Tanzania, Africa) for Comparison with MODLEN. <i>Remote Sensing</i> , 2018, 10, 1177.	4.0	4
61	Monitoring temporal variations in the geothermal activity of Miocene Lesvos volcanic field using remote sensing techniques and MODIS " LST imagery. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 95, 102251.	2.8	4
62	A comprehensive analysis of AMSRE C- and X-bands Radio Frequency Interferences. , 2012, , .		3
63	Integration of Optical and Passive Microwave Satellite Data for Flooded Area Detection and Monitoring. , 2015, , 631-635.		3
64	Quantifying the Variability of Phytoplankton Blooms in the NW Mediterranean Sea with the Robust Satellite Techniques (RST). <i>Remote Sensing</i> , 2021, 13, 5151.	4.0	3
65	Hot spot detection and effusion rate estimation using satellite data to drive lava flow simulations. , 2008, , .		2
66	A RST-Based study of AMSRE C-band radio frequency interferences. , 2010, , .		2
67	A global passive microwave based wetness index for the monitoring of soil moisture and inundation. , 2012, , .		2
68	PRE-EARTHQUAKES, an FP7 project for integrating observations and knowledges on earthquake precursors: Preliminary results and strategy. , 2012, , .		2
69	Observational Evidence of the Basin-Wide Gyre Reversal in the Gulf of Taranto. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL091030.	4.0	2
70	RSTVOLC implementation on MODIS data for monitoring of thermal volcanic activity. <i>Annals of Geophysics</i> , 2011, 54, .	1.0	2
71	On the potential of the AMSR-E based Polarization Ratio Variation Index (PRVI) for soil wetness variations monitoring. , 2010, , .		1
72	On the potential of Robust Satellite Technique (RST) approach for flooded areas detection and monitoring using thermal infrared data. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
73	Monitoring of soil moisture using a microwave based variational wetness index. , 2012, , .		1
74	Soil moisture variability estimation through AMSU radiometer. European Journal of Remote Sensing, 2012, 45, 89-97.	3.5	1
75	Monitoring turbidity in the Ionical coast during extreme events by applying a Robust Satellite Technique (RST) to MODIS imagery. , 2011, , .		1
76	A long-term investigation of AMSR-E Radio Frequency Interference. , 2012, , .		0
77	Rapid response for flood detection implementing the RST approach on MSG/SEVIRI data. , 2012, , .		0
78	Early Warnings and Alerts. , 2009, , 189-209.		0