

Teodosio Lacava

List of Publications by Year in descending order

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78
papers

1,746
citations

304743

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h-index

302126

39
g-index

83
all docs

83
docs citations

83
times ranked

1800
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated Satellite System for Fire Detection and Prioritization. Remote Sensing, 2022, 14, 335.	4.0	8
2	A Daytime Multisensor Satellite System for Global Gas Flaring Monitoring. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	10
3	Monitoring temporal variations in the geothermal activity of Miocene Lesvos volcanic field using remote sensing techniques and MODIS " LST imagery. International Journal of Applied Earth Observation and Geoinformation, 2021, 95, 102251.	2.8	4
4	Gas Flaring: A Review Focused On Its Analysis From Space. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 258-281.	9.6	18
5	Mt. Etna Paroxysms of February"April 2021 Monitored and Quantified through a Multi-Platform Satellite Observing System. Remote Sensing, 2021, 13, 3074.	4.0	17
6	Quantifying the Variability of Phytoplankton Blooms in the NW Mediterranean Sea with the Robust Satellite Techniques (RST). Remote Sensing, 2021, 13, 5151.	4.0	3
7	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). Remote Sensing, 2020, 12, 2147.	4.0	23
8	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
9	Remote Sensing Applications in Coastal Areas. Sensors, 2020, 20, 2673.	3.8	6
10	Observational Evidence of the Basin-Wide Gyre Reversal in the Gulf of Taranto. Geophysical Research Letters, 2020, 47, e2020GL091030.	4.0	2
11	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
12	Improving the RST-OIL Algorithm for Oil Spill Detection under Severe Sun Glint Conditions. Remote Sensing, 2019, 11, 2762.	4.0	7
13	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. Continental Shelf Research, 2018, 155, 34-44.	1.8	12
14	The Contribution of Multi-Sensor Infrared Satellite Observations to Monitor Mt. Etna (Italy) Activity during May to August 2016. Remote Sensing, 2018, 10, 1948.	4.0	26
15	Analyzing the December 2013 Metaponto Plain (Southern Italy) Flood Event by Integrating Optical Sensors Satellite Data. Hydrology, 2018, 5, 43.	3.0	4
16	On the Potential of the RST-FLARE Algorithm for Gas Flaring Characterization from Space. Sensors, 2018, 18, 2466.	3.8	12
17	Assessing Performance of the RSTVOLC Multi-Temporal Algorithm in Detecting Subtle Hot Spots at Oldoinyo Lengai (Tanzania, Africa) for Comparison with MODLEN. Remote Sensing, 2018, 10, 1177.	4.0	4
18	Evaluation of MODIS" Aqua Chlorophyll-a Algorithms in the Basilicata Ionian Coastal Waters. Remote Sensing, 2018, 10, 987.	4.0	10

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19	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
20	A MODIS-Based Robust Satellite Technique (RST) for Timely Detection of Oil Spilled Areas. Remote Sensing, 2017, 9, 128.	4.0	23
21	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's Aqua. Remote Sensing, 2016, 8, 922.	4.0	16
22	Results of the first Wave Glider experiment in the southern Tyrrhenian Sea. Advances in Oceanography and Limnology, 2016, 7, .	0.6	23
23	Long-Term RST Analysis of Anomalous TIR Sequences in Relation with Earthquakes Occurred in Greece in the Period 2004-2013. Pure and Applied Geophysics, 2016, 173, 285-303.	1.9	55
24	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
25	T-FLaP advances: instrumental and operative implementation. Journal of Operational Oceanography, 2016, 9, s185-s192.	1.2	4
26	A review of RSTVOLC, an original algorithm for automatic detection and near-real-time monitoring of volcanic hotspots from space. Geological Society Special Publication, 2016, 426, 55-72.	1.3	22
27	Coupling MODIS and Radar Altimetry Data for Discharge Estimation in Poorly Gauged River Basins. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 141-148.	4.9	52
28	Integration of Optical and Passive Microwave Satellite Data for Flooded Area Detection and Monitoring. , 2015, , 631-635.		3
29	Thermal Monitoring of Eyjafjall Volcano Eruptions by Means of Infrared MODIS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3393-3401.	4.9	13
30	A satellite-based analysis of the Val d'Agri Oil Center (southern Italy) gas flaring emissions. Natural Hazards and Earth System Sciences, 2014, 14, 2783-2793.	3.6	19
31	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
32	Toward the estimation of river discharge variations using MODIS data in ungauged basins. Remote Sensing of Environment, 2013, 136, 47-55.	11.0	88
33	A Multitemporal Investigation of AMSR-E C-Band Radio-Frequency Interference. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2007-2015.	6.3	10
34	A long-term investigation of AMSR-E Radio Frequency Interference. , 2012, , .		0
35	A global passive microwave based wetness index for the monitoring of soil moisture and inundation. , 2012, , .		2
36	A multi-sensor (SMOS, AMSR-E and ASCAT) satellite-based soil moisture products inter-comparison. , 2012, , .		5

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37	PRE-EARTHQUAKES, an FP7 project for integrating observations and knowledges on earthquake precursors: Preliminary results and strategy. , 2012, , .		2
38	A comprehensive analysis of AMSRE C- and X-bands Radio Frequency Interferences. , 2012, , .		3
39	Monitoring of soil moisture using a microwave based variational wetness index. , 2012, , .		1
40	Rapid response for flood detection implementing the RST approach on MSG/SEVIRI data. , 2012, , .		0
41	A First Assessment of the SMOS Soil Moisture Product With In Situ and Modeled Data in Italy and Luxembourg. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1612-1622.	6.3	73
42	Soil moisture variability estimation through AMSU radiometer. European Journal of Remote Sensing, 2012, 45, 89-97.	3.5	1
43	Inferring phases of thermal unrest at Mt. Asama (Japan) from infrared satellite observations. Journal of Volcanology and Geothermal Research, 2012, 237-238, 10-18.	2.1	23
44	Robust Satellite Techniques for oil spill detection and monitoring using AVHRR thermal infrared bands. International Journal of Remote Sensing, 2011, 32, 4107-4129.	2.9	24
45	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
46	Soil moisture estimation through ASCAT and AMSR-E sensors: An intercomparison and validation study across Europe. Remote Sensing of Environment, 2011, 115, 3390-3408.	11.0	483
47	On the use of AMSU-based products for the description of soil water content at basin scale. Hydrology and Earth System Sciences, 2011, 15, 2839-2852.	4.9	13
48	An improved RST approach for timely alert and Near Real Time monitoring of oil spill disasters by using AVHRR data. Natural Hazards and Earth System Sciences, 2011, 11, 1281-1291.	3.6	24
49	A multi-temporal analysis of AMSR-E data for flood and discharge monitoring during the 2008 flood in Iowa. Hydrological Processes, 2011, 25, 2623-2634.	2.6	37
50	River discharge estimation through MODIS data. , 2011, , .		6
51	Monitoring turbidity in the Ionical coast during extreme events by applying a Robust Satellite Technique (RST) to MODIS imagery. , 2011, , .		1
52	RSTVOLC implementation on MODIS data for monitoring of thermal volcanic activity. Annals of Geophysics, 2011, 54, .	1.0	2
53	Soil moisture variations monitoring by AMSU-based soil wetness indices: A long-term inter-comparison with ground measurements. Remote Sensing of Environment, 2010, 114, 2317-2325.	11.0	25
54	On the Exportability of Robust Satellite Techniques (RST) for Active Volcano Monitoring. Remote Sensing, 2010, 2, 1575-1588.	4.0	24

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55	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
56	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
57	On the potential of the AMSR-E based Polarization Ratio Variation Index (PRVI) for soil wetness variations monitoring. , 2010, , .		1
58	A RST-Based study of AMSRE C-band radio frequency interferences. , 2010, , .		2
59	Satellite oil spill detection and monitoring in the optical range. , 2010, , .		6
60	On the potential of Robust Satellite Technique (RST) approach for flooded areas detection and monitoring using thermal infrared data. , 2010, , .		1
61	A multi-sensors analysis of RST-based thermal anomalies in the case of the Abruzzo earthquake. , 2010, , .		6
62	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
63	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
64	Advanced multi-temporal passive microwave data analysis for soil wetness monitoring and flood risk forecast. , 2009, , .		9
65	Real time monitoring of flooded areas by a multi-temporal analysis of optical satellite data. , 2009, , .		6
66	Near real time oil spill detection and monitoring using satellite optical data. , 2009, , .		7
67	Robust satellite techniques for monitoring volcanic eruptions. <i>Annals of Geophysics</i> , 2009, 44, .	1.0	9
68	Early Warnings and Alerts. , 2009, , 189-209.		0
69	Hot spot detection and effusion rate estimation using satellite data to drive lava flow simulations. , 2008, , .		2
70	Monitoring Soil Wetness Variation by a Multi-Temporal Passive Microwave Technique. , 2007, , .		7
71	Robust Satellite Techniques (RST) for Oil Spill Detection and Monitoring. , 2007, , .		23
72	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

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73	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
74	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
75	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
76	Improving volcanic ash cloud detection by a robust satellite technique. <i>Remote Sensing of Environment</i> , 2004, 90, 1-22.	11.0	83
77	<title>Pollino Project Action D: a multiscale approach in the space-time domain to environmental risk monitoring</title>. , 2002, , .		4
78	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