

Theodore M Giannaros

List of Publications by Year in descending order

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39
papers

1,004
citations

471477

17
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454934

30
g-index

48
all docs

48
docs citations

48
times ranked

1346
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study of the urban heat island over Athens (Greece) with the WRF model. Atmospheric Environment, 2013, 73, 103-111.	4.1	116
2	Study of the urban heat island in a coastal Mediterranean City: The case study of Thessaloniki, Greece. Atmospheric Research, 2012, 118, 103-120.	4.1	114
3	A model for European Biogenic Volatile Organic Compound emissions: Software development and first validation. Environmental Modelling and Software, 2010, 25, 1845-1856.	4.5	67
4	Performance evaluation of the Weather Research and Forecasting (WRF) model for assessing wind resource in Greece. Renewable Energy, 2017, 102, 190-198.	8.9	58
5	A comprehensive approach for the simulation of the Urban Heat Island effect with the WRF/SLUCM modeling system: The case of Athens (Greece). Atmospheric Research, 2018, 201, 86-101.	4.1	51
6	Predicting lightning activity in Greece with the Weather Research and Forecasting (WRF) model. Atmospheric Research, 2015, 156, 1-13.	4.1	48
7	Evaluation of WRF shortwave radiation parameterizations in predicting Global Horizontal Irradiance in Greece. Renewable Energy, 2016, 86, 831-840.	8.9	40
8	WRF-LTNGDA: A lightning data assimilation technique implemented in the WRF model for improving precipitation forecasts. Environmental Modelling and Software, 2016, 76, 54-68.	4.5	37
9	Sensitivity of the WRF-Chem (V3.6.1) model to different dust emission parametrization: assessment in the broader Mediterranean region. Geoscientific Model Development, 2017, 10, 2925-2945.	3.6	34
10	Meteorological Analysis of the 2021 Extreme Wildfires in Greece: Lessons Learned and Implications for Early Warning of the Potential for Pyroconvection. Atmosphere, 2022, 13, 475.	2.3	29
11	Impacts of natural emission sources on particle pollution levels in Europe. Atmospheric Environment, 2016, 137, 171-185.	4.1	28
12	Weather-related thresholds for wildfire danger in a Mediterranean region: The case of Greece. Agricultural and Forest Meteorology, 2020, 291, 108076.	4.8	27
13	Development of an operational modeling system for urban heat islands: an application to Athens, Greece. Natural Hazards and Earth System Sciences, 2014, 14, 347-358.	3.6	25
14	A modeling study of the impact of the 2007 Greek forest fires on the gaseous pollutant levels in the Eastern Mediterranean. Atmospheric Research, 2014, 149, 1-17.	4.1	23
15	The natural emissions model (NEMO): Description, application and model evaluation. Atmospheric Environment, 2015, 122, 493-504.	4.1	22
16	Assessing the Impact of GNSS ZTD Data Assimilation into the WRF Modeling System during High-Impact Rainfall Events over Greece. Remote Sensing, 2020, 12, 383.	4.0	22
17	Operational forecasting of human-biometeorological conditions. International Journal of Biometeorology, 2018, 62, 1339-1343.	3.0	21
18	CORDEX-WRF v1.3: development of a module for the Weather Research and Forecasting (WRF) model to support the CORDEX community. Geoscientific Model Development, 2019, 12, 1029-1066.	3.6	19

#	ARTICLE	IF	CITATIONS
19	The Air Quality of a Mediterranean Urban Environment Area and Its Relation to Major Meteorological Parameters. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	17
20	Performance evaluation of an operational lightning forecasting system in Europe. <i>Natural Hazards</i> , 2017, 85, 1-18.	3.4	17
21	Climatology and trends of the Euro-Mediterranean thermal bioclimate. <i>International Journal of Climatology</i> , 2018, 38, 3290-3308.	3.5	16
22	On the short-term simulation of heat waves in the Southeast Mediterranean: Sensitivity of the WRF model to various physics schemes. <i>Atmospheric Research</i> , 2019, 218, 99-116.	4.1	16
23	IRIS – Rapid response fire spread forecasting system: Development, calibration and evaluation. <i>Agricultural and Forest Meteorology</i> , 2019, 279, 107745.	4.8	15
24	DISARM Early Warning System for Wildfires in the Eastern Mediterranean. <i>Sustainability</i> , 2020, 12, 6670.	3.2	15
25	Climatology and trend analysis (1987–2016) of fire weather in the Euro-Mediterranean. <i>International Journal of Climatology</i> , 2021, 41, E491.	3.5	13
26	Internal variability versus multi-physics uncertainty in a regional climate model. <i>International Journal of Climatology</i> , 2021, 41, E656.	3.5	13
27	Modeling lightning density using cloud top parameters. <i>Atmospheric Research</i> , 2019, 222, 163-171.	4.1	11
28	Evaluation of thermal bioclimate based on observational data and numerical simulations: an application to Greece. <i>International Journal of Biometeorology</i> , 2015, 59, 151-164.	3.0	9
29	Performance Evaluation of an Operational Rapid Response Fire Spread Forecasting System in the Southeast Mediterranean (Greece). <i>Atmosphere</i> , 2020, 11, 1264.	2.3	9
30	Numerical Simulation of Tehran Dust Storm on 2 June 2014: A Case Study of Agricultural Abandoned Lands as Emission Sources. <i>Atmosphere</i> , 2021, 12, 1054.	2.3	9
31	Pre-Operational Application of a WRF-Hydro-Based Fluvial Flood Forecasting System in the Southeast Mediterranean. <i>Forecasting</i> , 2021, 3, 437-446.	2.8	8
32	Dead Fuel Moisture Content (DFMC) Estimation Using MODIS and Meteorological Data: The Case of Greece. <i>Remote Sensing</i> , 2021, 13, 4224.	4.0	8
33	Observational and numerical study of the Vardaris wind regime in northern Greece. <i>Atmospheric Research</i> , 2016, 171, 107-120.	4.1	7
34	Observational and modeling study of a mesoscale convective system during the HyMeX – SOP1. <i>Atmospheric Research</i> , 2017, 187, 1-15.	4.1	7
35	Ultrahigh resolution wind forecasting for the sailing events at the Rio de Janeiro 2016 Summer Olympic Games. <i>Meteorological Applications</i> , 2018, 25, 86-93.	2.1	6
36	Storm Naming in the Eastern Mediterranean: Procedures, Events Review and Impact on the Citizens Risk Perception and Readiness. <i>Atmosphere</i> , 2021, 12, 1537.	2.3	6

#	ARTICLE	IF	CITATIONS
37	Implementation of WRF-Hydro at two drainage basins in the region of Attica, Greece, for operational flood forecasting. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 1983-2000.	3.6	5
38	Assessment of the v2016 NWCSAF CRR and CRR-Ph precipitation estimation performance over the Greek area using rain gauge data as ground truth. <i>Meteorology and Atmospheric Physics</i> , 2021, 133, 879-890.	2.0	2
39	Study of the impact of natural sources on the air quality – Evaluation of a natural emissions model. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0