# Theodore M Giannaros

List of Publications by Year
in descending order

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|---|---|---|---|
| 39 papers | 1,004 citations | 471509<br>17 h-index | 454955<br>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 parametrisation: 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 |

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|---|---------|----|-----------|
| 19 | The Air Quality of a Mediterranean Urban Environment Area and Its Relation to Major Meteorological Parameters. Water, Air, and Soil Pollution, 2015, 226, 1. | 2.4 | 17 |
| 20 | Performance evaluation of an operational lightning forecasting system in Europe. Natural Hazards, 2017, 85, 1-18. | 3.4 | 17 |
| 21 | Climatology and trends of the Euro–Mediterranean thermal bioclimate. International Journal of Climatology, 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. Atmospheric Research, 2019, 218, 99-116. | 4.1 | 16 |
| 23 | IRIS â€" Rapid response fire spread forecasting system: Development, calibration and evaluation. Agricultural and Forest Meteorology, 2019, 279, 107745. | 4.8 | 15 |
| 24 | DISARM Early Warning System for Wildfires in the Eastern Mediterranean. Sustainability, 2020, 12, 6670. | 3.2 | 15 |
| 25 | Climatology and trend analysis (1987â€"2016) of fire weather in the Euro–Mediterranean. International Journal of Climatology, 2021, 41, E491. | 3.5 | 13 |
| 26 | Internal variability versus multi–physics uncertainty in a regional climate model. International Journal of Climatology, 2021, 41, E656. | 3.5 | 13 |
| 27 | Modeling lightning density using cloud top parameters. Atmospheric Research, 2019, 222, 163-171. | 4.1 | 11 |
| 28 | Evaluation of thermal bioclimate based on observational data and numerical simulations: an application to Greece. International Journal of Biometeorology, 2015, 59, 151-164. | 3.0 | 9 |
| 29 | Performance Evaluation of an Operational Rapid Response Fire Spread Forecasting System in the Southeast Mediterranean (Greece). Atmosphere, 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. Atmosphere, 2021, 12, 1054. | 2.3 | 9 |
| 31 | Pre-Operational Application of a WRF-Hydro-Based Fluvial Flood Forecasting System in the Southeast Mediterranean. Forecasting, 2021, 3, 437-446. | 2.8 | 8 |
| 32 | Dead Fuel Moisture Content (DFMC) Estimation Using MODIS and Meteorological Data: The Case of Greece. Remote Sensing, 2021, 13, 4224. | 4.0 | 8 |
| 33 | Observational and numerical study of the Vardaris wind regime in northern Greece. Atmospheric Research, 2016, 171, 107-120. | 4.1 | 7 |
| 34 | Observational and modeling study of a mesoscale convective system during the HyMeX â€" SOP1. Atmospheric Research, 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. Meteorological Applications, 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. Atmosphere, 2021, 12, 1537. | 2.3 | 6 |

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|---|---------|----|-----------|
| 37 | Implementation of WRF-Hydro at two drainage basins in the region of Attica, Greece, for operational flood forecasting. Natural Hazards and Earth System Sciences, 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. Meteorology and Atmospheric Physics, 2021, 133, 879-890. | 2.0 | 2 |
| 39 | Study of the impact of natural sources on the air quality â€" Evaluation of a natural emissions model. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |