

Stavros Solomos

List of Publications by Year in descending order

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61
papers

1,786
citations

430874

18
h-index

289244

40
g-index

77
all docs

77
docs citations

77
times ranked

2418
citing authors

#	ARTICLE	IF	CITATIONS
1	Wet Scavenging in Removing Chemical Compositions and Aerosols: A Case Study Over the Lake Urmia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	6
2	Australian Bushfires (2019–2020): Aerosol Optical Properties and Radiative Forcing. <i>Atmosphere</i> , 2022, 13, 867.	2.3	2
3	Development of a Dust Source Map for WRF-Chem Model Based on MODIS NDVI. <i>Atmosphere</i> , 2022, 13, 868.	2.3	6
4	Lessons learned and questions raised during and post-COVID-19 anthropopause period in relation to the environment and climate. <i>Environment, Development and Sustainability</i> , 2021, 23, 10623-10645.	5.0	7
5	The Combined Effect of Ozone and Aerosols on Erythral Irradiance in an Extremely Low Ozone Event during May 2020. <i>Atmosphere</i> , 2021, 12, 145.	2.3	7
6	Assessing Sea-State Effects on Sea-Salt Aerosol Modeling in the Lower Atmosphere Using Lidar and In-Situ Measurements. <i>Remote Sensing</i> , 2021, 13, 614.	4.0	10
7	Radiative Effect and Mixing Processes of a Long-Lasting Dust Event over Athens, Greece, during the COVID-19 Period. <i>Atmosphere</i> , 2021, 12, 318.	2.3	12
8	The Potential of GRASP/GARRLIC Retrievals for Dust Aerosol Model Evaluation: Case Study during the PreTECT Campaign. <i>Remote Sensing</i> , 2021, 13, 873.	4.0	7
9	Cloud icing by mineral dust and impacts to aviation safety. <i>Scientific Reports</i> , 2021, 11, 6411.	3.3	9
10	Greenhouse gases (CO ₂ and CH ₄) at an urban background site in Athens, Greece: Levels, sources and impact of atmospheric circulation. <i>Atmospheric Environment</i> , 2021, 253, 118372.	4.1	15
11	A Modeling Study on the Downslope Wind of “Katevatos” in Greece and Implications for the Battle of Arachova in 1826. <i>Atmosphere</i> , 2021, 12, 993.	2.3	1
12	Investigation of Volcanic Emissions in the Mediterranean: “The Etna–Antikythera Connection”. <i>Atmosphere</i> , 2021, 12, 40.	2.3	11
13	The Role of Weather during the Greek–Persian “Naval Battle of Salamis” in 480 B.C.. <i>Atmosphere</i> , 2020, 11, 838.	2.3	5
14	Comparison and complementary use of in situ and remote sensing aerosol measurements in the Athens Metropolitan Area. <i>Atmospheric Environment</i> , 2020, 228, 117439.	4.1	6
15	An EARLINET early warning system for atmospheric aerosol aviation hazards. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10775-10789.	4.9	15
16	Is the near-spherical shape the “new black” for smoke?. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14005-14021.	4.9	16
17	Retrieval of ice-nucleating particle concentrations from lidar observations and comparison with UAV in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11315-11342.	4.9	53
18	Development of a dynamic dust source map for NMME-DREAM v1.0 model based on MODIS Normalized Difference Vegetation Index (NDVI) over the Arabian Peninsula. <i>Geoscientific Model Development</i> , 2019, 12, 979-988.	3.6	15

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19	Modeling and remote sensing of an indirect Pyro-Cb formation and biomass transport from Portugal wildfires towards Europe. <i>Atmospheric Environment</i> , 2019, 206, 303-315.	4.1	8
20	Effects of regional and local atmospheric dynamics on the aerosol and CCN load over Athens. <i>Atmospheric Environment</i> , 2019, 197, 53-65.	4.1	6
21	Nine-year spatial and temporal evolution of desert dust aerosols over South and East Asia as revealed by CALIOP. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1337-1362.	4.9	112
22	Long-Term Ground-Based Measurements of Aerosol Optical Depth over Kuwait City. <i>Remote Sensing</i> , 2018, 10, 1807.	4.0	19
23	Evaluation of the BSC-DREAM8b regional dust model using the 3D LIVAS-CALIPSO product. <i>Atmospheric Environment</i> , 2018, 195, 46-62.	4.1	19
24	Aerosol absorption profiling from the synergy of lidar and sun-photometry: the ACTRIS-2 campaigns in Germany, Greece and Cyprus. <i>EPJ Web of Conferences</i> , 2018, 176, 08005.	0.3	5
25	Direct radiative effects during intense Mediterranean desert dust outbreaks. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8757-8787.	4.9	41
26	From Tropospheric Folding to Khamsin and Foehn Winds: How Atmospheric Dynamics Advanced a Record-Breaking Dust Episode in Crete. <i>Atmosphere</i> , 2018, 9, 240.	2.3	49
27	Lidar Ice nuclei estimates and how they relate with airborne in-situ measurements. <i>EPJ Web of Conferences</i> , 2018, 176, 05018.	0.3	0
28	Highly Hygroscopic Particulate in Cloud Environment. <i>Springer Proceedings in Complexity</i> , 2018, , 579-585.	0.3	0
29	Validation of LIRIC aerosol concentration retrievals using airborne measurements during a biomass burning episode over Athens. <i>Atmospheric Research</i> , 2017, 183, 255-267.	4.1	10
30	An overview from hygroscopic aerosols to cloud droplets: The HygrA-CD campaign in the Athens basin. <i>Science of the Total Environment</i> , 2017, 574, 216-233.	8.0	7
31	Moving toward Subkilometer Modeling Grid Spacings: Impacts on Atmospheric and Hydrological Simulations of Extreme Flash Floods Inducing Storms. <i>Journal of Hydrometeorology</i> , 2017, 18, 209-226.	1.9	12
32	Development of a Dust Assimilation System for NMM-DREAM Model Based on MSG-SEVIRI Satellite Observations. <i>Springer Atmospheric Sciences</i> , 2017, , 801-807.	0.3	0
33	Remote sensing and modelling analysis of the extreme dust storm hitting the Middle East and eastern Mediterranean in September 2015. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4063-4079.	4.9	50
34	Detecting volcanic sulfur dioxide plumes in the Northern Hemisphere using the Brewer spectrophotometers, other networks, and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 551-574.	4.9	18
35	Three-dimensional evolution of Saharan dust transport towards Europe based on a 9-year EARLINET-optimized CALIPSO dataset. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5893-5919.	4.9	117
36	CCN Activity, Variability and Influence on Droplet Formation during the HygrA-Cd Campaign in Athens. <i>Atmosphere</i> , 2017, 8, 108.	2.3	10

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37	GARRLIC and LIRIC: strengths and limitations for the characterization of dust and marine particles along with their mixtures. Atmospheric Measurement Techniques, 2017, 10, 4995-5016.	3.1	42
38	Profiling aerosol optical, microphysical and hygroscopic properties in ambient conditions by combining in situ and remote sensing. Atmospheric Measurement Techniques, 2017, 10, 83-107.	3.1	9
39	Dust impact on surface solar irradiance assessed with model simulations, satellite observations and ground-based measurements. Atmospheric Measurement Techniques, 2017, 10, 2435-2453.	3.1	89
40	Synergistic Satellite and Modeling Methods for the Description of Biomass Smoke Dispersion Over Complex Terrain. The FireHub Platform. Springer Atmospheric Sciences, 2017, , 809-815.	0.3	1
41	3D Structure of Saharan Dust Transport Towards Europe as Seen by CALIPSO. EPJ Web of Conferences, 2016, 119, 18007.	0.3	1
42	Utilizing The Synergy of Airborne Backscatter Lidar and In-Situ Measurements for Evaluating CALIPSO. EPJ Web of Conferences, 2016, 119, 04007.	0.3	0
43	Application of the Garrlic Algorithm for the Characterization of Dust and Marine Particles Utilizing the Lidar-Sunphotometer Synergy. EPJ Web of Conferences, 2016, 119, 23021.	0.3	2
44	Vertical Profiles of Aerosol Optical and Microphysical Properties During a Rare Case of Long-range Transport of Mixed Biomass Burning-polluted Dust Aerosols from the Russian Federation-kazakhstan to Athens, Greece. EPJ Web of Conferences, 2016, 119, 18003.	0.3	1
45	Tropospheric Vertical Profiles of Aerosol Optical, Microphysical and Concentration Properties in the Frame of the Hygra-CD Campaign (Athens, Greece 2014): A Case Study of Long-Range Transport of Mixed Aerosols. EPJ Web of Conferences, 2016, 119, 23016.	0.3	1
46	Extreme dust storm over the eastern Mediterranean in September 2015: satellite, lidar, and surface observations in the Cyprus region. Atmospheric Chemistry and Physics, 2016, 16, 13711-13724.	4.9	56
47	Sensitivity of boundary-layer variables to PBL schemes in the WRF model based on surface meteorological observations, lidar, and radiosondes during the HygrA-CD campaign. Atmospheric Research, 2016, 176-177, 185-201.	4.1	127
48	LIVAS: a 3-D multi-wavelength aerosol/cloud database based on CALIPSO and EARLINET. Atmospheric Chemistry and Physics, 2015, 15, 7127-7153.	4.9	94
49	Smoke dispersion modeling over complex terrain using high resolution meteorological data and satellite observations “ The FireHub platform. Atmospheric Environment, 2015, 119, 348-361.	4.1	29
50	Some considerations related to flight in dusty conditions. Journal of Aerospace Operations, 2014, 3, 45-56.	0.1	5
51	Impact of natural aerosols on atmospheric radiation and consequent feedbacks with the meteorological and photochemical state of the atmosphere. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1463-1491.	3.3	39
52	Natural and anthropogenic aerosols in the Eastern Mediterranean and Middle East: Possible impacts. Science of the Total Environment, 2014, 488-489, 389-397.	8.0	19
53	Online coupled regional meteorology chemistry models in Europe: current status and prospects. Atmospheric Chemistry and Physics, 2014, 14, 317-398.	4.9	271
54	The Role of Aerosol Properties on Cloud Nucleation Processes. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 27-34.	0.2	0

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55	Mechanisms of Climate Variability, Air Quality and Impacts of Atmospheric Constituents in the Mediterranean Region. <i>Advances in Global Change Research</i> , 2013, , 119-156.	1.6	3
56	Using NWP Simulations in Satellite Rainfall Estimation of Heavy Precipitation Events over Mountainous Areas. <i>Journal of Hydrometeorology</i> , 2013, 14, 1844-1858.	1.9	23
57	Density currents as a desert dust mobilization mechanism. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11199-11211.	4.9	38
58	An integrated modeling study on the effects of mineral dust and sea salt particles on clouds and precipitation. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 873-892.	4.9	123
59	Contribution of Aviation Emissions on the Air Pollution Levels of the Mediterranean Region with the Use of an Online Coupled, Fully Integrated Modeling System. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011, , 327-332.	0.2	0
60	Ten-year operational dust forecasting – Recent model development and future plans. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009, 7, 012012.	0.3	9
61	Saharan dust levels in Greece and received inhalation doses. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 7181-7192.	4.9	86