

Petros Katsafados

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,614
citations

361413

20
h-index

302126

39
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59
all docs

59
docs citations

59
times ranked

1956
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvements in wind speed forecasts for wind power prediction purposes using Kalman filtering. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2008, 96, 2348-2362.	3.9	329
2	Long-Range Transport of Anthropogenically and Naturally Produced Particulate Matter in the Mediterranean and North Atlantic: Current State of Knowledge. <i>Journal of Applied Meteorology and Climatology</i> , 2007, 46, 1230-1251.	1.5	177
3	Transatlantic Saharan dust transport: Model simulation and results. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	124
4	The Weather Forecasting System for Poseidon - an Overview. <i>Vital</i> , 2002, 8, 219-237.	0.0	88
5	Applications of Kalman filters based on non-linear functions to numerical weather predictions. <i>Annales Geophysicae</i> , 2006, 24, 2451-2460.	1.6	86
6	A Multi-Platform Hydrometeorological Analysis of the Flash Flood Event of 15 November 2017 in Attica, Greece. <i>Remote Sensing</i> , 2019, 11, 45.	4.0	53
7	Implementation of a two-way coupled atmosphere-ocean wave modeling system for assessing air-sea interaction over the Mediterranean Sea. <i>Atmospheric Research</i> , 2018, 208, 201-217.	4.1	50
8	Verification of operational weather forecasts from the POSEIDON system across the Eastern Mediterranean. <i>Natural Hazards and Earth System Sciences</i> , 2009, 9, 1299-1306.	3.6	49
9	Transboundary Atmospheric Lead Pollution. <i>Environmental Science & Technology</i> , 2002, 36, 3230-3233.	10.0	39
10	Numerical simulation of a deep Mediterranean storm and its sensitivity on sea surface temperature. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 1233-1246.	3.6	38
11	Seasonal predictability of the 2010 Russian heat wave. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1531-1542.	3.6	37
12	Towards an Ocean Forecasting System for the Aegean Sea. <i>Vital</i> , 2002, 8, 191-218.	0.0	36
13	Air pollution modeling in the Mediterranean Region: Analysis and forecasting of episodes. <i>Atmospheric Research</i> , 2008, 89, 358-364.	4.1	35
14	A fully coupled atmosphere-ocean wave modeling system for the Mediterranean Sea: interactions and sensitivity to the resolved scales and mechanisms. <i>Geoscientific Model Development</i> , 2016, 9, 161-173.	3.6	35
15	Implementation of a Nowcasting Hydrometeorological System for Studying Flash Flood Events: The Case of Mandra, Greece. <i>Remote Sensing</i> , 2020, 12, 2784.	4.0	34
16	Performance evaluation of an air quality forecast modeling system for a summer and winter season - Photochemical oxidants and their precursors. <i>Atmospheric Environment</i> , 2008, 42, 8585-8599.	4.1	29
17	A 2-year intercomparison of the WAM-Cycle4 and the WAVEWATCH-III wave models implemented within the Mediterranean Sea. <i>Mediterranean Marine Science</i> , 2012, 12, 129.	1.6	26
18	Assessment of offshore wind power potential in the Aegean and Ionian Seas based on high-resolution hindcast model results. <i>AIMS Energy</i> , 2017, 5, 268-289.	1.9	23

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19	Forecast errors in dust vertical distributions over Rome (Italy): Multiple particle size representation and cloud contributions. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	22
20	Investigation of flash flood natural causes of Xirolaki Torrent, Northern Greece based on GIS modeling and geomorphological analysis. <i>Natural Hazards</i> , 2016, 84, 1015-1033.	3.4	22
21	Eine zusammenfassende Studie über die Beurteilung der natürlichen und anthropogenen Gründe für Flutereignisse in kleinen Einzugsgebieten, basierend auf geomorphologischen und meteorologischen Daten sowie Modelltechniken: Der Xerias Strom (Korinth, Griechenland) Une Étude internationale pour l'évaluation des causes naturelles et anthropogéniques am?. <i>Zeitschrift für Geomorphologie</i> , 2012, 56, 45-67.	0.8	20
22	Investigating the impact of atmosphere-ocean interactions on a Mediterranean tropical-like cyclone. <i>Ocean Modelling</i> , 2020, 153, 101675.	2.4	20
23	Unravelling Precipitation Trends in Greece since 1950s Using ERA5 Climate Reanalysis Data. <i>Climate</i> , 2022, 10, 12.	2.8	19
24	Effect of wind variability on topographic waves: Lake Kinneret case. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	17
25	Analysis of a Low-level Coastal Jet off the Western Coast of Norway. <i>Energy Procedia</i> , 2014, 53, 162-172.	1.8	17
26	Modeling the Effects of Anthropogenic Land Cover Changes to the Main Hydrometeorological Factors in a Regional Watershed, Central Greece. <i>Climate</i> , 2019, 7, 129.	2.8	17
27	Impact of coastal transportation emissions on inland air pollution over Israel: Utilizing numerical simulations, airborne measurements, and synoptic analyses. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 5-1-ACL 5-14.	3.3	15
28	The Implementation of a Mineral Dust Wet Deposition Scheme in the GOCART-AFWA Module of the WRF Model. <i>Remote Sensing</i> , 2018, 10, 1595.	4.0	15
29	Assessment of the Relationships among Catchments' Morphometric Parameters and Hydrologic Indices. <i>International Journal of Geosciences</i> , 2014, 05, 1571-1583.	0.6	14
30	Mapping long-term atmospheric variables over Greece. <i>Journal of Maps</i> , 2012, 8, 181-184.	2.0	12
31	Assessing the Implicit Rain Impact on Sea State During Hurricane Sandy (2012). <i>Geophysical Research Letters</i> , 2018, 45, 12,015.	4.0	12
32	An analysis of the synoptic and dynamical characteristics of hurricane Sandy (2012). <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 443-453.	2.0	11
33	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
34	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
35	Investigating sea-state effects on flash flood hydrograph and inundation forecasting. <i>Hydrological Processes</i> , 2021, 35, e14151.	2.6	9
36	One-year assessment of the two-way coupled atmosphere-ocean wave modeling system CHAOS over the Mediterranean and Black Seas. <i>Mediterranean Marine Science</i> , 0, , .	1.6	8

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37	Regional atmospheric response to tropical Pacific SST perturbations. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	6
38	Assessing Desert Dust Indirect Effects on Cloud Microphysics through a Cloud Nucleation Scheme: A Case Study over the Western Mediterranean. <i>Remote Sensing</i> , 2020, 12, 3473.	4.0	6
39	Assessing the impact of Argo floats temperature measurements on the numerical weather prediction forecast skill. <i>Mediterranean Marine Science</i> , 2019, 20, 331.	1.6	6
40	Forecasting soil erosion and sediment yields during flash floods: The disastrous case of Mandra, Greece, 2017. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 1744-1760.	2.5	6
41	Temperature and Relative Humidity Profile Retrieval from Fengyun-3D/HIRAS in the Arctic Region. <i>Remote Sensing</i> , 2021, 13, 1884.	4.0	5
42	Dynamic downscaling of the ERA-40 data using a mesoscale meteorological model. <i>Mediterranean Marine Science</i> , 2012, 12, 183.	1.6	5
43	The Hellenic Marine Observing, Forecasting and Technology System—An Integrated Infrastructure for Marine Research. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 329.	2.6	5
44	Heterogeneous Chemical Processes and Their Role on Particulate Matter Formation in the Mediterranean Region. <i>NATO Security Through Science Series C: Environmental Security</i> , 2008, , 505-513.	0.1	4
45	Contribution of Desert Dust Transport to Air Quality Degradation of Urban Environments Recent Model Developments. , 2004, , 279-287.		3
46	Implementation of a Hybrid Surface Layer Parameterization Scheme for the Coupled Atmosphere-Ocean Wave System WEW. <i>Springer Atmospheric Sciences</i> , 2017, , 159-165.	0.3	3
47	Model-derived seasonal amounts of dust deposited on Mediterranean Sea and Europe. <i>Elsevier Oceanography Series</i> , 2003, 69, 57-63.	0.1	2
48	An assessment of the relative impacts of key stressors on the hydrology of Greek river water bodies. <i>Environmental Earth Sciences</i> , 2022, 81, 1.	2.7	2
49	Satellite observations of Sahara dust events in the Mediterranean and its effect on surface phytoplankton biomass. , 2003, 4880, 40.		1
50	Evaluation of POSEIDON forecasts in the Aegean Sea for a three-year period. <i>Elsevier Oceanography Series</i> , 2003, , 64-70.	0.1	1
51	Chapter 5.7 Radiative effects of natural PMs on photochemical processes in the Mediterranean Region. <i>Developments in Environmental Science</i> , 2007, , 548-559.	0.5	1
52	Temperature Seasonal Predictability of the WRF Model. <i>Springer Atmospheric Sciences</i> , 2017, , 75-80.	0.3	1
53	Chapter 1.5 Assessment of dust forecast errors by using lidar measurements over Rome. <i>Developments in Environmental Science</i> , 2007, 6, 44-54.	0.5	0
54	High Resolution Gridded Meteorological Data Across the Mediterranean Basin. <i>Springer Atmospheric Sciences</i> , 2013, , 253-258.	0.3	0

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55	Load Balancing for the Numerical Solution of the Navier-Stokes Equations. , 2007, , 764-773.		0
56	Multiplatform hydrometeorological analysis of a flash flood event. , 2022, , 689-741.		0