Anastasios Papadopoulos

List of Publications by Year
in descending order

80 papers	2,231 citations	279487 23 h-index	243296 44 g-index
83 all docs	83 docs citations	83 times ranked	2620 citing authors

#	Article	IF	Citations
1	A model for prediction of desert dust cycle in the atmosphere. Journal of Geophysical Research, 2001, 106, 18113-18129.	3.3	449
2	On the Long-Range transport of air pollutants from Europe to Africa. Geophysical Research Letters, 1998, 25, 619-622.	1.5	134
3	Transatlantic Saharan dust transport: Model simulation and results. Journal of Geophysical Research, 2006, 111, .	3.3	124
4	Benchmarking High-Resolution Global Satellite Rainfall Products to Radar and Rain-Gauge Rainfall Estimates. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1667-1683.	2.7	100
5	The Weather Forecasting System for Poseidon - an Overview. Vital, 2002, 8, 219-237.	0.0	88
6	Performance evaluation of high-resolution rainfall estimation by X-band dual-polarization radar for flash flood applications in mountainous basins. Journal of Hydrology, 2010, 394, 4-16.	2.3	78
7	Sensitivity of a mountain basin flash flood to initial wetness condition and rainfall variability. Journal of Hydrology, 2011, 402, 165-178.	2.3	76
8	Improving Convective Precipitation Forecasting through Assimilation of Regional Lightning Measurements in a Mesoscale Model. Monthly Weather Review, 2005, 133, 1961-1977.	0.5	73
9	A Multi-Platform Hydrometeorological Analysis of the Flash Flood Event of 15 November 2017 in Attica, Greece. Remote Sensing, 2019, 11, 45.	1.8	53
10	Implementation of a two-way coupled atmosphere-ocean wave modeling system for assessing air-sea interaction over the Mediterranean Sea. Atmospheric Research, 2018, 208, 201-217.	1.8	50
11	Verification of operational weather forecasts from the POSEIDON system across the Eastern Mediterranean. Natural Hazards and Earth System Sciences, 2009, 9, 1299-1306.	1.5	49
12	Some observational and modeling evidence of long-range transport of air pollutants from Europe toward the Israeli coast. Journal of Geophysical Research, 2000, 105, 7177-7186.	3.3	44
13	Dense water formation and cascading in the Gulf of Thermaikos (North Aegean), from observations and modelling. Continental Shelf Research, 2005, 25, 2366-2386.	0.9	43
14	Effects of different wind data sources in offshore wind power assessment. Renewable Energy, 2015, 77, 101-114.	4.3	42
15	Numerical simulation of a deep Mediterranean storm and its sensitivity on sea surface temperature. Natural Hazards and Earth System Sciences, 2011, 11, 1233-1246.	1.5	38
16	Seasonal predictability of the 2010 Russian heat wave. Natural Hazards and Earth System Sciences, 2014, 14, 1531-1542.	1.5	37
17	A fully coupled atmosphere–ocean wave modeling system for the Mediterranean Sea: interactions and sensitivity to the resolved scales and mechanisms. Geoscientific Model Development, 2016, 9, 161-173.	1.3	35
18	Implementation of a Nowcasting Hydrometeorological System for Studying Flash Flood Events: The Case of Mandra, Greece. Remote Sensing, 2020, 12, 2784.	1.8	34

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19	Improving the representation of river–groundwater interactions in land surface modeling at the regional scale: Observational evidence and parameterization applied in the Community Land Model. Journal of Hydrology, 2012, 420-421, 72-86.	2.3	33
20	Operational Monitoring and Forecasting in the Aegean Sea: System Limitations and Forecasting Skill Evaluation. Marine Pollution Bulletin, 2001, 43, 154-163.	2.3	29
21	Experimental results on rainfall estimation in complex terrain with a mobile X-band polarimetric weather radar. Atmospheric Research, 2009, 94, 579-595.	1.8	29
22	Flood Inundation Mapping at Ungauged Basins Using Coupled Hydrometeorological–Hydraulic Modelling: The Catastrophic Case of the 2006 Flash Flood in Volos City, Greece. Water (Switzerland), 2019, 11, 2328.	1.2	26
23	A 2-year intercomparison of the WAM-Cycle4 and the WAVEWATCH-III wave models implemented within the Mediterranean Sea. Mediterranean Marine Science, 2012, 12, 129.	0.6	26
24	Partial pressure and air–sea CO2 flux in the Aegean Sea during February 2006. Continental Shelf Research, 2009, 29, 1477-1488.	0.9	24
25	Error Propagation of Remote Sensing Rainfall Estimates in Soil Moisture Prediction from a Land Surface Model. Journal of Hydrometeorology, 2010, 11, 705-720.	0.7	23
26	Assessment of offshore wind power potential in the Aegean and Ionian Seas based on high-resolution hindcast model results. AIMS Energy, 2017, 5, 268-289.	1.1	23
27	Forecasting the Aegean Sea hydrodynamics within the POSEIDON-II operational system. Journal of Operational Oceanography, 2010, 3, 37-49.	0.6	22
28	Delineating the relative contribution of climate related variables to chlorophyll-a and phytoplankton biomass in lakes using the ERA5-Land climate reanalysis data. Water Research, 2021, 196, 117053.	5.3	22
29	Numerical study of a very intensive eastern Mediterranean dust storm, 13-16 March 1998. Journal of Geophysical Research, 2002, 107, AAC 17-1-AAC 17-13.	3.3	20
30	Investigating the impact of atmosphere–wave–ocean interactions on a Mediterranean tropical-like cyclone. Ocean Modelling, 2020, 153, 101675.	1.0	20
31	Evaluating the impact of lightning data assimilation on mesoscale model simulations of a flash flood inducing storm. Atmospheric Research, 2009, 94, 715-725.	1.8	19
32	Monitoring Greek Seas Using Passive Underwater Acoustics. Journal of Atmospheric and Oceanic Technology, 2015, 32, 334-349.	0.5	19
33	Unravelling Precipitation Trends in Greece since 1950s Using ERA5 Climate Reanalysis Data. Climate, 2022, 10, 12.	1.2	19
34	Analysis of a Low-level Coastal Jet off the Western Coast of Norway. Energy Procedia, 2014, 53, 162-172.	1.8	17
35	Modeling the Effects of Anthropogenic Land Cover Changes to the Main Hydrometeorological Factors in a Regional Watershed, Central Greece. Climate, 2019, 7, 129.	1.2	17
36	Trends of lake temperature, mixing depth and ice cover thickness of European lakes during the last four decades. Science of the Total Environment, 2022, 830, 154709.	3.9	16

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37	Passive aquatic listener (PAL): An adoptive underwater acoustic recording system for the marine environment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 626-627, S94-S98.	0.7	15
38	The Implementation of a Mineral Dust Wet Deposition Scheme in the GOCART-AFWA Module of the WRF Model. Remote Sensing, 2018, 10, 1595.	1.8	15
39	River‐induced particle distribution in the northwestern Black Sea (September 2002 and 2004). Journal of Geophysical Research, 2009, 114, .	3.3	13
40	A Marine Groundwater Spring in Stoupa, Greece: Shallow Water Instrumentation Comparing Radon and Ambient Sound with Discharge Rate. Procedia Earth and Planetary Science, 2011, 4, 3-9.	0.6	12
41	Mapping long-term atmospheric variables over Greece. Journal of Maps, 2012, 8, 181-184.	1.0	12
42	Assessing the Implicit Rain Impact on Sea State During Hurricane Sandy (2012). Geophysical Research Letters, 2018, 45, 12,015.	1.5	12
43	Evaluating Nature-Based Solution for Flood Reduction in Spercheios River Basin under Current and Future Climate Conditions. Sustainability, 2021, 13, 3885.	1.6	12
44	An analysis of the synoptic and dynamical characteristics of hurricane Sandy (2012). Meteorology and Atmospheric Physics, 2019, 131, 443-453.	0.9	11
45	Evaluating the Forecast Skill of a Hydrometeorological Modelling System in Greece. Atmosphere, 2021, 12, 902.	1.0	11
46	Particle dynamics and fluxes in canyons and open slopes of the southern Cretan margin (Eastern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	10
47	Assessing Sea-State Effects on Sea-Salt Aerosol Modeling in the Lower Atmosphere Using Lidar and In-Situ Measurements. Remote Sensing, 2021, 13, 614.	1.8	10
48	Investigating sea‐state effects on flash flood hydrograph and inundation forecasting. Hydrological Processes, 2021, 35, e14151.	1.1	9
49	OpenHi.net: A Synergistically Built, National-Scale Infrastructure for Monitoring the Surface Waters of Greece. Water (Switzerland), 2021, 13, 2779.	1.2	9
50	Spatiotemporal variability of marine renewable energy resources in Norway. Energy Procedia, 2017, 125, 180-189.	1.8	8
51	Four Decades of Surface Temperature, Precipitation, and Wind Speed Trends over Lakes of Greece. Sustainability, 2021, 13, 9908.	1.6	8
52	One-year assessment of the two-way coupled atmosphere-ocean wave modeling system CHAOS over the Mediterranean and Black Seas. Mediterranean Marine Science, 0, , .	0.6	8
53	Greening offshore wind with the Smart Wind Chart evaluation tool. Web Ecology, 2016, 16, 73-80.	0.4	8
54	Improving NWP through radar rainfall-driven land surface parameters: A case study on convective precipitation forecasting. Advances in Water Resources, 2008, 31, 1456-1469.	1.7	7

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55	Assessment of Automatically Monitored Water Levels and Water Quality Indicators in Rivers with Different Hydromorphological Conditions and Pollution Levels in Greece. Hydrology, 2021, 8, 86.	1.3	7
56	Regional atmospheric response to tropical Pacific SST perturbations. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	6
57	Assessing Desert Dust Indirect Effects on Cloud Microphysics through a Cloud Nucleation Scheme: A Case Study over the Western Mediterranean. Remote Sensing, 2020, 12, 3473.	1.8	6
58	Assessing the impact of Argo floats temperature measurements on the numerical weather prediction forecast skill. Mediterranean Marine Science, 2019, 20, 331.	0.6	6
59	Forecasting soil erosion and sediment yields during flash floods: The disastrous case of Mandra, Greece, 2017. Earth Surface Processes and Landforms, 2022, 47, 1744-1760.	1.2	6
60	Weather Systems Affecting the Meteorological Conditions over the Aegean Sea. Handbook of Environmental Chemistry, 2020, , 1.	0.2	5
61	A New Automatic Monitoring Network of Surface Waters in Greece: Preliminary Data Quality Checks and Visualization. Hydrology, 2021, 8, 33.	1.3	5
62	Assessment of an Ultrasonic Water Stage Monitoring Sensor Operating in an Urban Stream. Sensors, 2021, 21, 4689.	2.1	5
63	Possible Mechanisms for Long Range Transport in the Eastern Mediterranean. , 1996, , 99-107.		5
64	Dynamic downscaling of the ERA-40 data using a mesoscale meteorological model. Mediterranean Marine Science, 2012, 12, 183.	0.6	5
65	Calculating the surface temperature of the solid underlyingsurface by modified "Force-Restore" method. Theoretical and Applied Climatology, 2000, 67, 109-113.	1.3	4
66	Long-Term Hydrologic Trends in the Main Greek Rivers: A Statistical Approach. Handbook of Environmental Chemistry, 2015, , 129-165.	0.2	4
67	Temporal and Spatial Scales for Transport and Transformation Processes in the Eastern Mediterranean. , 1998, , 15-24.		4
68	Contribution of Desert Dust Transport to Air Quality Degradation of Urban Environments Recent Model Developments. , 2004, , 279-287.		3
69	Implementation of a Hybrid Surface Layer Parameterization Scheme for the Coupled Atmosphere-Ocean Wave System WEW. Springer Atmospheric Sciences, 2017, , 159-165.	0.4	3
70	Model-derived seasonal amounts of dust deposited on Mediterranean Sea and Europe. Elsevier Oceanography Series, 2003, 69, 57-63.	0.1	2
71	An assessment of the relative impacts of key stressors on the hydrology of Greek river water bodies. Environmental Earth Sciences, 2022, 81, 1.	1.3	2
72	Satellite observations of Sahara dust events in the Mediterranean and its effect on surface phytoplankton biomass. , 2003, 4880, 40.		1

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73	Evaluation of POSEIDON forecasts in the Aegean Sea for a three-year period. Elsevier Oceanography Series, 2003, , 64-70.	0.1	1
74	Comparative analysis of humidity characteristics for open-sea and coastal areas in the Mediterranean. Atmospheric Research, 2012, 113, 126-139.	1.8	1
75	The Impacts of Anthropogenic and Climatic Factors on the Interaction of Spercheios River and Maliakos Gulf, the Aegean Sea. Handbook of Environmental Chemistry, 2020, , 1.	0.2	1
76	The Implementation of a Dust Wet Deposition Scheme in the WRF-CHEM Model. Springer Atmospheric Sciences, 2017, , 69-74.	0.4	1
77	Temperature Seasonal Predictability of the WRF Model. Springer Atmospheric Sciences, 2017, , 75-80.	0.4	1
78	Adaptive neural network for wave forecasting. Elsevier Oceanography Series, 2003, , 403-406.	0.1	0
79	High Resolution Gridded Meteorological Data Across the Mediterranean Basin. Springer Atmospheric Sciences, 2013, , 253-258.	0.4	0
80	Multiplatform hydrometeorological analysis of a flash flood event. , 2022, , 689-741.		0