

Helena A Flocas

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,955
citations

279798

23
h-index

289244

40
g-index

83
all docs

83
docs citations

83
times ranked

2070
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Neural Networks to the Simulation of the Heat Island over Athens, Greece, Using Synoptic Types as a Predictor. <i>Journal of Applied Meteorology and Climatology</i> , 2002, 41, 519-527.	1.7	122
2	On Cyclonic Tracks over the Eastern Mediterranean. <i>Journal of Climate</i> , 2010, 23, 5243-5257.	3.2	107
3	The role of meteorology on different sized aerosol fractions (PM10, PM2.5, PM2.5-10). <i>Science of the Total Environment</i> , 2012, 419, 124-135.	8.0	101
4	On the relationships between circulation types and changes in rainfall variability in Greece. <i>International Journal of Climatology</i> , 2004, 24, 1695-1712.	3.5	94
5	Indoor air quality in a dentistry clinic. <i>Science of the Total Environment</i> , 2007, 377, 349-365.	8.0	82
6	Synoptic and local scale atmospheric circulation associated with air pollution episodes in an urban Mediterranean area. <i>Theoretical and Applied Climatology</i> , 2009, 95, 265-277.	2.8	77
7	A Case Study of Saharan Cyclogenesis. <i>Monthly Weather Review</i> , 1997, 125, 1147-1165.	1.4	64
8	Regional Climatic Features of the Arabian Peninsula. <i>Atmosphere</i> , 2019, 10, 220.	2.3	57
9	Climatological aspects of explosive cyclones in the Mediterranean. <i>International Journal of Climatology</i> , 2011, 31, 1785-1802.	3.5	56
10	Analysis of Mesoscale Patterns in Relation to Synoptic Conditions over an Urban Mediterranean Basin. <i>Theoretical and Applied Climatology</i> , 1998, 59, 215-229.	2.8	55
11	Hailstorms in Northern Greece: synoptic patterns and thermodynamic environment. <i>Theoretical and Applied Climatology</i> , 2003, 75, 189-202.	2.8	55
12	The eastern Mediterranean teleconnection pattern: identification and definition. <i>International Journal of Climatology</i> , 2007, 27, 727-737.	3.5	52
13	Spatial and temporal characteristics of the relationship between air quality status and mesoscale circulation over an urban Mediterranean basin. <i>Science of the Total Environment</i> , 1998, 217, 37-57.	8.0	47
14	Simulating the thermal behaviour of a building during summer period in the urban environment. <i>Renewable Energy</i> , 2007, 32, 1805-1816.	8.9	44
15	Cyclogenesis over the Aegean Sea: Identification and synoptic categories. <i>Meteorological Applications</i> , 1996, 3, 53-61.	2.1	43
16	The Impact of the Eastern Mediterranean Teleconnection Pattern on the Mediterranean Climate. <i>Journal of Climate</i> , 2009, 22, 977-992.	3.2	42
17	Circulation types and extreme temperature changes in Greece. <i>Climate Research</i> , 2006, 30, 161-174.	1.1	41
18	On the vertical structure of composite surface cyclones in the Mediterranean region. <i>Theoretical and Applied Climatology</i> , 2002, 71, 199-217.	2.8	36

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19	Cyclones in the Mediterranean region: present and future climate scenarios derived from a general circulation model (HadAM3P). <i>Advances in Geosciences</i> , 0, 7, 9-14.	12.0	36
20	Model evaluation of the atmospheric boundary layer and mixed-layer evolution. <i>Boundary-Layer Meteorology</i> , 2007, 124, 61-79.	2.3	31
21	Dynamic modeling of human thermal comfort after the transition from an indoor to an outdoor hot environment. <i>International Journal of Biometeorology</i> , 2015, 59, 205-216.	3.0	30
22	Relationship of extreme dry spells in Eastern Mediterranean with large-scale circulation. <i>Theoretical and Applied Climatology</i> , 2010, 100, 137-151.	2.8	28
23	On the vertical structure of Mediterranean explosive cyclones. <i>Theoretical and Applied Climatology</i> , 2012, 110, 155-176.	2.8	28
24	Assessing characteristics of Mediterranean explosive cyclones for different data resolution. <i>Theoretical and Applied Climatology</i> , 2011, 105, 263-275.	2.8	27
25	Seasonal Aspects of an Objective Climatology of Anticyclones Affecting the Mediterranean. <i>Journal of Climate</i> , 2014, 27, 9272-9289.	3.2	24
26	Developing Gridded Climate Data Sets of Precipitation for Greece Based on Homogenized Time Series. <i>Climate</i> , 2019, 7, 68.	2.8	23
27	Investigating cigarette-smoke indoor pollution in a controlled environment. <i>Science of the Total Environment</i> , 2005, 337, 183-190.	8.0	22
28	The formation of a dynamically unstable ridge at 500 hPa as a precursor of surface cyclogenesis in the central Mediterranean. <i>Meteorological Applications</i> , 1996, 3, 101-111.	2.1	21
29	Measuring the effects of heat wave episodes on the human body's thermal balance. <i>International Journal of Biometeorology</i> , 2009, 53, 177-187.	3.0	21
30	The ability of a barotropic model to simulate sea level extremes of meteorological origin in the Mediterranean Sea, including those caused by explosive cyclones. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 7840-7853.	2.6	21
31	Relationship between the Indian summer monsoon and the large-scale circulation variability over the Mediterranean. <i>Atmospheric Research</i> , 2015, 152, 159-169.	4.1	21
32	Evaluation of maximum and minimum temperature of NCEP-NCAR reanalysis data over Greece. <i>Theoretical and Applied Climatology</i> , 2005, 80, 49-65.	2.8	20
33	The role of the interaction between polar and subtropical jet in a case of depression rejuvenation over the Eastern Mediterranean. <i>Meteorology and Atmospheric Physics</i> , 2006, 92, 139-151.	2.0	19
34	Coupling GEOS-CHEM with a regional air pollution model for Greece. <i>Atmospheric Environment</i> , 2009, 43, 4793-4804.	4.1	19
35	Assessing the associations of daily respiratory symptoms and lung function in schoolchildren using an Air Quality Index for ozone: Results from the RESPOZE panel study in Athens, Greece. <i>Science of the Total Environment</i> , 2018, 633, 492-499.	8.0	19
36	VOC and O ₃ Distributions over the Densely Populated Area of Greater Athens, Greece. <i>Journal of Applied Meteorology and Climatology</i> , 2003, 42, 1799-1810.	1.7	18

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37	A Statistical Investigation of the Impact of the Indian Monsoon on the Eastern Mediterranean Circulation. <i>Atmosphere</i> , 2018, 9, 90.	2.3	16
38	Upper-tropospheric downstream development leading to surface cyclogenesis in the central Mediterranean. <i>Meteorological Applications</i> , 1999, 6, 313-322.	2.1	15
39	A high-resolution climatological study on the comparison between surface explosive and ordinary cyclones in the Mediterranean. <i>Regional Environmental Change</i> , 2014, 14, 1833-1846.	2.9	15
40	Relationship between atmospheric circulation types over Greece and western-central Europe during the period 1958-97. <i>International Journal of Climatology</i> , 2004, 24, 1745-1758.	3.5	14
41	Indoor air quality assessment in the air traffic control tower of the Athens Airport, Greece. <i>Environmental Monitoring and Assessment</i> , 2009, 148, 47-60.	2.7	14
42	Absolute vorticity advection and potential vorticity of the free troposphere as synthetic tools for the diagnosis and forecasting of cyclogenesis. <i>Atmosphere - Ocean</i> , 1997, 35, 65-91.	1.6	13
43	An experimental study of aerosol distribution over a Mediterranean urban area. <i>Science of the Total Environment</i> , 2006, 367, 872-887.	8.0	13
44	Vertical characteristics of cyclonic tracks over the eastern Mediterranean during the cold period of the year. <i>Theoretical and Applied Climatology</i> , 2013, 112, 375-388.	2.8	13
45	On the dynamics of a case study of explosive cyclogenesis in the Mediterranean. <i>Meteorology and Atmospheric Physics</i> , 2015, 127, 49-73.	2.0	13
46	Mean Characteristics of the Katabatic Flow of a 1024 m High Knife Edge Mountain. <i>Theoretical and Applied Climatology</i> , 1998, 59, 237-249.	2.8	12
47	A case of nighttime high ozone concentration over the greater Athens area. <i>Meteorologische Zeitschrift</i> , 2010, 19, 35-45.	1.0	12
48	Spatial verification approaches as a tool to evaluate the performance of high resolution precipitation forecasts. <i>Atmospheric Research</i> , 2018, 208, 78-87.	4.1	12
49	Quasi-lagrangian energetics of an intense mediterranean cyclone. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1999, 125, 139-168.	2.7	10
50	Diagnostics of Cyclogenesis Over the Aegean Sea Using Potential Vorticity Inversion. <i>Meteorology and Atmospheric Physics</i> , 2000, 73, 25-33.	2.0	10
51	A modelling method for estimating transboundary air pollution in southeastern Europe. <i>Environmental Modelling and Software</i> , 2004, 19, 549-558.	4.5	10
52	The dust event of 17 April 2005 over Athens, Greece. <i>Weather</i> , 2006, 61, 125-131.	0.7	9
53	Significant changes in the regional climate of the Aegean during 1961-2002. <i>International Journal of Climatology</i> , 2008, 28, 1735-1749.	3.5	9
54	A Comparative Study of the Main Mechanisms Controlling Indoor Air Pollution in Residential Flats. <i>Water, Air, and Soil Pollution</i> , 2009, 204, 333-350.	2.4	9

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55	The role of meteorology on the background air quality at the Athens International Airport. <i>Atmospheric Environment</i> , 2011, 45, 5561-5571.	4.1	9
56	An advanced method for classifying atmospheric circulation types based on prototypes connectivity graph. <i>Atmospheric Research</i> , 2012, 118, 180-192.	4.1	9
57	Particulate Matter Estimation from Photochemistry: A Modelling Approach Using Neural Networks and Synoptic Clustering. <i>Aerosol and Air Quality Research</i> , 2016, 16, 2067-2084.	2.1	9
58	Der Einfluß eines sich entwickelnden diffluenten Hochs auf die Bodenzyklogeneese im zentralen Mittelmeerraum. <i>Meteorologische Zeitschrift</i> , 1997, 6, 108-119.	1.0	9
59	Development of a Front Identification Scheme for Compiling a Cold Front Climatology of the Mediterranean. <i>Climate</i> , 2019, 7, 130.	2.8	8
60	Precipitation Climatology for the Arid Region of the Arabian Peninsula—Variability, Trends and Extremes. <i>Climate</i> , 2021, 9, 103.	2.8	8
61	Evaluation of CALPUFF modelling system performance: an application over the Greater Athens Area, Greece. <i>International Journal of Environment and Pollution</i> , 2005, 24, 22.	0.2	7
62	Assessment of the role of sea surface fluxes on eastern Mediterranean explosive cyclogenesis with the aid of the limited-area model COSMO.GR. <i>Atmospheric Research</i> , 2018, 208, 132-147.	4.1	7
63	Developing an index for heavy convective rainfall forecasting over a Mediterranean coastal area. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 2205-2214.	3.6	6
64	Ability of RCM/GCM couples to represent the relationship of large scale circulation to climate extremes over the Mediterranean region. <i>Climate Research</i> , 2011, 46, 197-209.	1.1	6
65	Experimental Study of the Vertical Structure of the Lower Troposphere over a Small Greek Island in the Aegean Sea. <i>Journal of Atmospheric and Oceanic Technology</i> , 2002, 19, 1181-1192.	1.3	5
66	Mixing ratio as indicator of climate variations at a local scale: trends in an industrial area of the Eastern Mediterranean. <i>International Journal of Climatology</i> , 2016, 36, 1534-1538.	3.5	5
67	Universal Thermal Climate Index (UTCI) and synoptic circulation patterns over the metropolitan city of Athens, Greece. <i>Global Nest Journal</i> , 2018, 20, 477-487.	0.1	5
68	Relationship of Air Quality Indicators and Synoptic Scale Circulation at 850 hPa over Athens During 1983-1995. <i>Environmental Technology (United Kingdom)</i> , 1998, 19, 13-24.	2.2	5
69	Observations of Local Meteorological Variability under Large-Scale Circulation Patterns over Athens, Greece. <i>Atmosphere</i> , 2018, 9, 25.	2.3	4
70	A Mediterranean cold front identification scheme combining wind and thermal criteria. <i>International Journal of Climatology</i> , 2021, 41, 6497-6510.	3.5	4
71	Analysis of the Transition of an Explosive Cyclone to a Mediterranean Tropical-like Cyclone. <i>Atmosphere</i> , 2021, 12, 1438.	2.3	4
72	Influence of environmental winds on propagation and motion of thunderstorms in northern Greece. <i>Journal of Geophysical Research</i> , 1996, 101, 26255-26265.	3.3	3

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73	Spectral investigation of the diffuse-to-direct solar beam irradiances ratio (UVâ€“VIS) in the urban Athens atmosphere. <i>Meteorology and Atmospheric Physics</i> , 2009, 104, 199-211.	2.0	3
74	On the variability of the surface environment response to synoptic forcing over complex terrain: a multivariate data analysis approach. <i>Meteorology and Atmospheric Physics</i> , 2012, 118, 107-115.	2.0	3
75	Identification of the development mechanisms of an explosive cyclone in the central Mediterranean with the aid of the MSC satellite images. , 2013, , .		3
76	Estimating the Biogenic Non-Methane Hydrocarbon Emissions over Greece. <i>Atmosphere</i> , 2018, 9, 14.	2.3	3
77	Climatological aspects of cyclonic tracks associated with flood events in Crete, Greece. <i>Theoretical and Applied Climatology</i> , 2017, 130, 1163-1174.	2.8	2
78	A study of frost events in areas characterised by the absence of observations. <i>Meteorology and Atmospheric Physics</i> , 1997, 62, 249-256.	2.0	1
79	Weather maps classification over Greek domain based on isobaric line patterns. <i>Theoretical and Applied Climatology</i> , 2013, 114, 691-704.	2.8	0
80	Local scale simulation of air temperature by a two-step hybrid downscaling approach using regional climate modeling and artificial neural networks. <i>Global Nest Journal</i> , 2013, 15, 261-270.	0.1	0