

# Alexandru Dumitrescu

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

3,146  
citations

257357

24  
h-index

155592

55  
g-index

80  
all docs

80  
docs citations

80  
times ranked

3508  
citing authors

#	ARTICLE	IF	CITATIONS
1	<scp>RoClib</scp>â€œ biasâ€corrected <scp>CORDEX RCM</scp> dataset over Romania. Geoscience Data Journal, 2023, 10, 262-275.	1.8	4
2	Longâ€term changes in drought indices in eastern and central Europe. International Journal of Climatology, 2022, 42, 225-249.	1.5	41
3	Local fresh- and sea-water effects on fog occurrence. Science of the Total Environment, 2022, 807, 150799.	3.9	1
4	MODIS-based climatology of the Surface Urban Heat Island at country scale (Romania). Urban Climate, 2022, 41, 101056.	2.4	19
5	Enriching the historical meteorological information using Romanian language newspaper reports: A database from 1880 to 1900. International Journal of Climatology, 2021, 41, E548.	1.5	6
6	Temperature changes and elevationâ€warming relationships in the Carpathian Mountains. International Journal of Climatology, 2021, 41, 2154-2172.	1.5	23
7	Terrain and its effects on fog occurrence. Science of the Total Environment, 2021, 768, 144359.	3.9	10
8	Analysis of Sub-Daily Precipitation for the PannEx Region. Atmosphere, 2021, 12, 838.	1.0	4
9	Statistical analysis of the effects of forests on fog. Science of the Total Environment, 2021, 781, 146675.	3.9	4
10	Hybrid numerical models for wind speed forecasting. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 220, 105669.	0.6	12
11	Homogenization of a combined hourly air temperature dataset over Romania. International Journal of Climatology, 2020, 40, 2599-2608.	1.5	6
12	A new perspective on the sunshine duration variability. Theoretical and Applied Climatology, 2020, 139, 1219-1230.	1.3	0
13	Influence of synoptic scale atmospheric circulation on the development of urban heat island in Prague and Bucharest. Urban Climate, 2020, 34, 100681.	2.4	12
14	Integrating Ground-based Observations and Radar Data Into Gridding Sub-daily Precipitation. Water Resources Management, 2020, 34, 3479-3497.	1.9	7
15	Exploratory Analysis of Urban Climate Using a Gap-Filled Landsat 8 Land Surface Temperature Data Set. Sensors, 2020, 20, 5336.	2.1	7
16	A new parameterization of the effective cloud fields. Theoretical and Applied Climatology, 2020, 142, 769-779.	1.3	0
17	The Urban Climate Services URCLIM project. Climate Services, 2020, 20, 100194.	1.0	2
18	Statistical Gap-Filling of SEVIRI Land Surface Temperature. Remote Sensing, 2020, 12, 1423.	1.8	14

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19	Meteorological and Ancillary Data Resources for Climate Research in Urban Areas. <i>Climate</i> , 2020, 8, 37.	1.2	15
20	Improving Irrigation Scheduling Using MOSES Short-Term Irrigation Forecasts and In Situ Water Resources Measurements on Alluvial Soils of Lower Danube Floodplain, Romania. <i>Water (Switzerland)</i> , 2020, 12, 520.	1.2	8
21	The history of rainfall data time-resolution in a wide variety of geographical areas. <i>Journal of Hydrology</i> , 2020, 590, 125258.	2.3	29
22	Identifying climate change hotspots relevant for ecosystems in Romania. <i>Climate Research</i> , 2020, 80, 165-173.	0.4	10
23	AIR-TEMPERATURE SINGULARITIES AND DIFFERENCES BETWEEN INTRA- AND EXTRA-URBAN WEATHER STATIONS. CASE STUDY: BUCHAREST-FILARET AND BUCHAREST-BĂNEASA. <i>Present Environment and Sustainable Development</i> , 2020, 14, .	0.1	0
24	Variability and Change in Water Cycle at the Catchment Level. , 2018, , .		1
25	Adaptive genetic potential of European silver fir in Romania in the context of climate change. <i>Annals of Forest Research</i> , 2018, 61, .	0.6	13
26	Crop evapotranspiration assessment under climate change in the Pannonian basin during 1991â€“2050. <i>Meteorological Applications</i> , 2017, 24, 84-91.	0.9	23
27	Reconstruction of historical aerosol optical depth time series over Romania during summertime. <i>International Journal of Climatology</i> , 2017, 37, 4720-4732.	1.5	8
28	Mapping monthly rainfall erosivity in Europe. <i>Science of the Total Environment</i> , 2017, 579, 1298-1315.	3.9	142
29	Variability of the aridity in the South-Eastern Europe over 1961â€“2050. <i>Catena</i> , 2017, 151, 74-86.	2.2	67
30	Climatic conditions influence emerging mycotoxin presence in wheat grown in Romania â€“ A 2-year survey. <i>Crop Protection</i> , 2017, 100, 124-133.	1.0	22
31	A Romanian daily high-resolution gridded dataset of snow depth (2005-2015). <i>Geofizika</i> , 2017, 34, 275-295.	0.1	5
32	Changes in intensity of high temporal resolution precipitation extremes in Romania: implications for Clausius-Clapeyron scaling. <i>Climate Research</i> , 2017, 72, 239-249.	0.4	14
33	Rapid daily and sub-daily temperature variations in an urban environment. <i>Climate Research</i> , 2017, 73, 233-246.	0.4	10
34	Monthly Rainfall Erosivity: Conversion Factors for Different Time Resolutions and Regional Assessments. <i>Water (Switzerland)</i> , 2016, 8, 119.	1.2	60
35	Spatio-temporal interpolation of sub-daily (6 h) precipitation over Romania for the period 1975â€“2010. <i>International Journal of Climatology</i> , 2016, 36, 1331-1343.	1.5	18
36	Effective monitoring and warning of Urban Heat Island effect on the indoor thermal risk in Bucharest (Romania). <i>Energy and Buildings</i> , 2016, 127, 452-468.	3.1	26

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37	CMSAF products Cloud Fraction Coverage and Cloud Type used for solar global irradiance estimation. <i>Meteorology and Atmospheric Physics</i> , 2016, 128, 525-535.	0.9	7
38	A common methodology for risk assessment and mapping for south-east Europe: an application for heat wave risk in Romania. <i>Natural Hazards</i> , 2016, 82, 89-109.	1.6	23
39	Simple solar radiation modelling for different cloud types and climatologies. <i>Theoretical and Applied Climatology</i> , 2016, 124, 141-160.	1.3	16
40	A new perspective on the relationship between cloud shade and point cloudiness. <i>Atmospheric Research</i> , 2016, 172-173, 136-146.	1.8	4
41	A new point of view on the relationship between global solar irradiation and sunshine quantifiers. <i>Solar Energy</i> , 2016, 126, 252-263.	2.9	11
42	Spatial and temporal variability of climate extremes in Romania and associated large-scale mechanisms. <i>International Journal of Climatology</i> , 2015, 35, 1278-1300.	1.5	59
43	Climate of the Carpathian Region in the period 1961-2010: climatologies and trends of 10 variables. <i>International Journal of Climatology</i> , 2015, 35, 1322-1341.	1.5	152
44	Rainfall erosivity in Europe. <i>Science of the Total Environment</i> , 2015, 511, 801-814.	3.9	443
45	Recent climatic changes in Romania from observational data (1961-2013). <i>Theoretical and Applied Climatology</i> , 2015, 122, 111-119.	1.3	84
46	The summer surface urban heat island of Bucharest (Romania) retrieved from MODIS images. <i>Theoretical and Applied Climatology</i> , 2015, 121, 631-640.	1.3	48
47	ROCADA: a gridded daily climatic dataset over Romania (1961-2013) for nine meteorological variables. <i>Natural Hazards</i> , 2015, 78, 1045-1063.	1.6	98
48	Reply to the comment on "Rainfall erosivity in Europe" by Auerswald et al.. <i>Science of the Total Environment</i> , 2015, 532, 853-857.	3.9	19
49	Projections of Future Changes in Climate of the Romanian Carpathians. <i>Springer Atmospheric Sciences</i> , 2015, , 199-205.	0.4	2
50	Changes in thermal discomfort indices in Romania and their connections with large-scale mechanisms. <i>Climate Research</i> , 2015, 64, 213-226.	0.4	22
51	Changing Climate Extremes in the Last Five Decades (1961-2010). <i>Springer Atmospheric Sciences</i> , 2015, , 187-198.	0.4	1
52	Regional Climatic Patterns. <i>Springer Atmospheric Sciences</i> , 2015, , 73-148.	0.4	2
53	Observed Variability and Trends from Instrumental Records. <i>Springer Atmospheric Sciences</i> , 2015, , 149-185.	0.4	6
54	Simple models to compute solar global irradiance from the CMSAF product Cloud Fractional Coverage. <i>Renewable Energy</i> , 2014, 66, 118-131.	4.3	20

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55	Accuracy of CM-SAF solar irradiance incident on horizontal surface. Theoretical and Applied Climatology, 2014, 117, 233-246.	1.3	4
56	Changes in annual temperature extremes in the Carpathians since AD 1961. Natural Hazards, 2014, 74, 1899-1910.	1.6	42
57	Climate variability in the Carpathian Mountains Region over 1961â€“2010. Global and Planetary Change, 2014, 118, 85-96.	1.6	67
58	New types of simple non-linear models to compute solar global irradiance from cloud cover amount. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 117, 54-70.	0.6	24
59	Snow variability in Romania in connection to large-scale atmospheric circulation. International Journal of Climatology, 2014, 34, 134-144.	1.5	56
60	Spatiotemporal variability of meteorological drought in Romania using the standardized precipitation index (SPI). Climate Research, 2014, 60, 235-248.	0.4	49
61	Accuracy analysis for fifty-four clear-sky solar radiation models using routine hourly global irradiance measurements in Romania. Renewable Energy, 2013, 55, 85-103.	4.3	82
62	The CMSAF hourly solar irradiance database (product CM54): Accuracy and bias corrections with illustrations for Romania (south-eastern Europe). Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 93, 100-109.	0.6	16
63	New models to compute solar global hourly irradiation from point cloudiness. Energy Conversion and Management, 2013, 67, 75-91.	4.4	21
64	Accuracy and sensitivity analysis for 54 models of computing hourly diffuse solar irradiation on clear sky. Theoretical and Applied Climatology, 2013, 111, 379-399.	1.3	25
65	Computing global and diffuse solar hourly irradiation on clear sky. Review and testing of 54 models. Renewable and Sustainable Energy Reviews, 2012, 16, 1636-1656.	8.2	114
66	COMPARISON BETWEEN RADAR ESTIMATED AND RAIN GAUGE MEASURED PRECIPITATION IN THE MOLDAVIAN PLATEAU. Environmental Engineering and Management Journal, 2012, 11, 723-731.	0.2	4
67	Climatologic adjustments to monthly precipitation in Romania. International Journal of Climatology, 2011, 31, 704-714.	1.5	19
68	Seasonal characteristics of flood regimes across the Alpineâ€“Carpathian range. Journal of Hydrology, 2010, 394, 78-89.	2.3	181
69	A compilation of data on European flash floods. Journal of Hydrology, 2009, 367, 70-78.	2.3	623
70	The July urban heat island of Bucharest as derived from modis images. Theoretical and Applied Climatology, 2009, 96, 145-153.	1.3	82
71	The urban heat island of Bucharest during the extreme high temperatures of July 2007. Theoretical and Applied Climatology, 2009, 97, 391-401.	1.3	76
72	The Evaluation of Solar Energy Availability at Ground Level Using Satellite Resources. Applied Mechanics and Materials, 0, 378, 40-45.	0.2	0

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73	What "ngstr" Prescott equation tells us about the cloud and clear-sky climatologies?. Theoretical and Applied Climatology, 0, , 1.	1.3	0