

Sorin Cheval

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,064
citations

331259

21
h-index

243296

44
g-index

66
all docs

66
docs citations

66
times ranked

2475
citing authors

#	ARTICLE	IF	CITATIONS
1	Benchmarking homogenization algorithms for monthly data. <i>Climate of the Past</i> , 2012, 8, 89-115.	1.3	286
2	Observed and Potential Impacts of the COVID-19 Pandemic on the Environment. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4140.	1.2	194
3	Seasonal characteristics of flood regimes across the Alpine–Carpathian range. <i>Journal of Hydrology</i> , 2010, 394, 78-89.	2.3	181
4	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
5	Computing global and diffuse solar hourly irradiation on clear sky. Review and testing of 54 models. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1636-1656.	8.2	114
6	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. <i>Biological Conservation</i> , 2021, 263, 109175.	1.9	96
7	The July urban heat island of Bucharest as derived from modis images. <i>Theoretical and Applied Climatology</i> , 2009, 96, 145-153.	1.3	82
8	Accuracy analysis for fifty-four clear-sky solar radiation models using routine hourly global irradiance measurements in Romania. <i>Renewable Energy</i> , 2013, 55, 85-103.	4.3	82
9	The urban heat island of Bucharest during the extreme high temperatures of July 2007. <i>Theoretical and Applied Climatology</i> , 2009, 97, 391-401.	1.3	76
10	Climate variability in the Carpathian Mountains Region over 1961–2010. <i>Global and Planetary Change</i> , 2014, 118, 85-96.	1.6	67
11	Variability of the aridity in the South-Eastern Europe over 1961–2050. <i>Catena</i> , 2017, 151, 74-86.	2.2	67
12	Spatiotemporal variability of meteorological drought in Romania using the standardized precipitation index (SPI). <i>Climate Research</i> , 2014, 60, 235-248.	0.4	49
13	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
14	Changes in annual temperature extremes in the Carpathians since AD 1961. <i>Natural Hazards</i> , 2014, 74, 1899-1910.	1.6	42
15	Ten principles to integrate the water-energy-land nexus with climate services for co-producing local and regional integrated assessments. <i>Science of the Total Environment</i> , 2019, 693, 133662.	3.9	39
16	Exploratory analysis of cooling effect of urban lakes on land surface temperature in Bucharest (Romania) using Landsat imagery. <i>Urban Climate</i> , 2020, 34, 100696.	2.4	35
17	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
18	Accuracy and sensitivity analysis for 54 models of computing hourly diffuse solar irradiation on clear sky. <i>Theoretical and Applied Climatology</i> , 2013, 111, 379-399.	1.3	25

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19	Climate of the Romanian Carpathians. Springer Atmospheric Sciences, 2015, , .	0.4	25
20	Crop evapotranspiration assessment under climate change in the Pannonian basin during 1991â€“2050. Meteorological Applications, 2017, 24, 84-91.	0.9	23
21	Temperature changes and elevationâ€“warming relationships in the Carpathian Mountains. International Journal of Climatology, 2021, 41, 2154-2172.	1.5	23
22	Comparison of spatial interpolation methods for estimating the precipitation distribution in Portugal. Theoretical and Applied Climatology, 2021, 145, 1193-1206.	1.3	23
23	Benchmarking homogenization algorithms for monthly data. AIP Conference Proceedings, 2013, , .	0.3	20
24	Climate change effects on crop evapotranspiration in the Carpathian Region from 1961 to 2010. Meteorological Applications, 2016, 23, 462-469.	0.9	20
25	Climatologic adjustments to monthly precipitation in Romania. International Journal of Climatology, 2011, 31, 704-714.	1.5	19
26	MODIS-based climatology of the Surface Urban Heat Island at country scale (Romania). Urban Climate, 2022, 41, 101056.	2.4	19
27	Meteorological and Ancillary Data Resources for Climate Research in Urban Areas. Climate, 2020, 8, 37.	1.2	15
28	Recent changes in temperature and precipitation indices in the Southern Carpathians, Romania (1961â€“2018). Theoretical and Applied Climatology, 2021, 144, 691-710.	1.3	15
29	Statistical Gap-Filling of SEVIRI Land Surface Temperature. Remote Sensing, 2020, 12, 1423.	1.8	14
30	An investigation into the precipitation conditions in Romania using a GIS-based method. Theoretical and Applied Climatology, 2003, 76, 77-88.	1.3	13
31	Climate change effects on groundwater resources: a new assessment method through climate indices and effective precipitation in BeliÅŸ district, Western Carpathians. Meteorological Applications, 2016, 23, 554-561.	0.9	13
32	A review of recent studies on heat wave definitions, mechanisms, changes, and impact on mortality. Forum Geografic, 2019, XVIII, 96-114.	0.3	13
33	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
34	SWAT Model Adaptability to a Small Mountainous Forested Watershed in Central Romania. Forests, 2021, 12, 860.	0.9	11
35	VULNERABILITY OF GROUNDWATER UNDER CLIMATE CHANGE AND LAND COVER: A NEW SPATIAL ASSESSMENT METHOD APPLIED ON BELIS DISTRICT (WESTERN CARPATHIANS, ROMANIA). Environmental Engineering and Management Journal, 2015, 14, 2959-2971.	0.2	11
36	Climate change perception in Romania. Theoretical and Applied Climatology, 2022, 149, 253-272.	1.3	11

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37	Rapid daily and sub-daily temperature variations in an urban environment. <i>Climate Research</i> , 2017, 73, 233-246.	0.4	10
38	Identifying climate change hotspots relevant for ecosystems in Romania. <i>Climate Research</i> , 2020, 80, 165-173.	0.4	10
39	The wind regime of Romania – Characteristics, trends and North Atlantic oscillation influences. <i>Forum Geografic</i> , 2012, XI, 118-126.	0.3	9
40	Drip heterogeneity and the impact of decreased flow rates on the vadose zone fauna in Ciurâzbuca Cave, NW Romania. <i>Ecohydrology</i> , 2018, 11, e2028.	1.1	7
41	Exploratory Analysis of Urban Climate Using a Gap-Filled Landsat 8 Land Surface Temperature Data Set. <i>Sensors</i> , 2020, 20, 5336.	2.1	7
42	Climate services for sustainable resource management: The water-energy-land nexus in the TÄfurlung river basin (Romania). <i>Land Use Policy</i> , 2022, 119, 106221.	2.5	7
43	Black Sea impact on its west-coast land surface temperature. <i>Theoretical and Applied Climatology</i> , 2019, 135, 1583-1593.	1.3	6
44	Homogenization of a combined hourly air temperature dataset over Romania. <i>International Journal of Climatology</i> , 2020, 40, 2599-2608.	1.5	6
45	Enriching the historical meteorological information using Romanian language newspaper reports: A database from 1880 to 1900. <i>International Journal of Climatology</i> , 2021, 41, E548.	1.5	6
46	Defining local extreme heat thresholds and Indoor Cooling Degree Necessity for vulnerable residential dwellings during the 2020 summer in Ankara – Part I: Air temperature. <i>Solar Energy</i> , 2022, 242, 435-453.	2.9	6
47	Analysis of Sub-Daily Precipitation for the PannEx Region. <i>Atmosphere</i> , 2021, 12, 838.	1.0	4
48	COMPARISON BETWEEN RADAR ESTIMATED AND RAIN GAUGE MEASURED PRECIPITATION IN THE MOLDAVIAN PLATEAU. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 723-731.	0.2	4
49	<scp>RoCliB</scp> – bias-corrected <scp>CORDEX RCM</scp> dataset over Romania. <i>Geoscience Data Journal</i> , 2023, 10, 262-275.	1.8	4
50	Tornadoes in Romania – from Forecasting and Warning to Understanding Public’s Response and Expectations. <i>Atmosphere</i> , 2020, 11, 966.	1.0	3
51	Challenges in Applied Human Biometeorology. <i>Atmosphere</i> , 2021, 12, 296.	1.0	3
52	Projections of Future Changes in Climate of the Romanian Carpathians. <i>Springer Atmospheric Sciences</i> , 2015, , 199-205.	0.4	2
53	Regional Climatic Patterns. <i>Springer Atmospheric Sciences</i> , 2015, , 73-148.	0.4	2
54	AUTOMATED GEODATA PROCESSING FOR BLACK SEA INFLUENCE ASSESSMENT ON THE LAND SURFACE TEMPERATURE. <i>Environmental Engineering and Management Journal</i> , 2016, 15, 405-411.	0.2	1

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55	Climate parameters relevant for avalanche triggering in the Făgăraș™ Mountains (Southern Carpathians). Forum Geografic, 2019, XVIII, 5-13.	0.3	1
56	Geographical and Synoptic Controls on the Climate. Springer Atmospheric Sciences, 2015, , 57-72.	0.4	1
57	An enhanced Machado Index of naturalness. Catena, 2022, 212, 106091.	2.2	1