

Sorin Cheval

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

1,400
citations

16
h-index

37
g-index

66
ext. papers

1,707
ext. citations

3.6
avg, IF

4.75
L-index

#	Paper	IF	Citations
54	An enhanced Machado Index of naturalness. <i>Catena</i> , 2022 , 212, 106091	5.8	0
53	MODIS-based climatology of the Surface Urban Heat Island at country scale (Romania). <i>Urban Climate</i> , 2022 , 41, 101056	6.8	3
52	Climate change perception in Romania.. <i>Theoretical and Applied Climatology</i> , 2022 , 1-20	3	1
51	A SPEI-Based Approach to Drought Hazard, Vulnerability and Risk Analysis in the Lower Danube River Region. <i>Earth and Environmental Sciences Library</i> , 2022 , 299-328		1
50	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. <i>Biological Conservation</i> , 2021 , 263, 109175	6.2	20
49	SWAT Model Adaptability to a Small Mountainous Forested Watershed in Central Romania. <i>Forests</i> , 2021 , 12, 860	2.8	2
48	Comparison of spatial interpolation methods for estimating the precipitation distribution in Portugal. <i>Theoretical and Applied Climatology</i> , 2021 , 145, 1193-1206	3	2
47	Analysis of Sub-Daily Precipitation for the PannEx Region. <i>Atmosphere</i> , 2021 , 12, 838	2.7	1
46	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	3.5	2
45	Temperature changes and elevation-warming relationships in the Carpathian Mountains. <i>International Journal of Climatology</i> , 2021 , 41, 2154-2172	3.5	7
44	Recent changes in temperature and precipitation indices in the Southern Carpathians, Romania (1961-2018). <i>Theoretical and Applied Climatology</i> , 2021 , 144, 691-710	3	5
43	Observed and Potential Impacts of the COVID-19 Pandemic on the Environment. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	112
42	Statistical Gap-Filling of SEVIRI Land Surface Temperature. <i>Remote Sensing</i> , 2020 , 12, 1423	5	9
41	Meteorological and Ancillary Data Resources for Climate Research in Urban Areas. <i>Climate</i> , 2020 , 8, 37	3.1	11
40	Identifying climate change hotspots relevant for ecosystems in Romania. <i>Climate Research</i> , 2020 , 80, 165-173	1.6	4
39	Tornadoes in Romania from Forecasting and Warning to Understanding Public Response and Expectations. <i>Atmosphere</i> , 2020 , 11, 966	2.7	2
38	Influence of synoptic scale atmospheric circulation on the development of urban heat island in Prague and Bucharest. <i>Urban Climate</i> , 2020 , 34, 100681	6.8	8

37	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	6.8	13
36	Exploratory Analysis of Urban Climate Using a Gap-Filled Landsat 8 Land Surface Temperature Data Set. <i>Sensors</i> , 2020 , 20,	3.8	3
35	Homogenization of a combined hourly air temperature dataset over Romania. <i>International Journal of Climatology</i> , 2020 , 40, 2599-2608	3.5	3
34	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	10.2	21
33	A review of recent studies on heat wave definitions, mechanisms, changes, and impact on mortality. <i>Forum Geografic</i> , 2019 , XVIII, 96-114	1	2
32	Black Sea impact on its west-coast land surface temperature. <i>Theoretical and Applied Climatology</i> , 2019 , 135, 1583-1593	3	4
31	Drip heterogeneity and the impact of decreased flow rates on the vadose zone fauna in Ciur-Izbuc Cave, NW Romania. <i>Ecohydrology</i> , 2018 , 11, e2028	2.5	7
30	Crop evapotranspiration assessment under climate change in the Pannonian basin during 1991-2050. <i>Meteorological Applications</i> , 2017 , 24, 84-91	2.1	16
29	Variability of the aridity in the South-Eastern Europe over 1961-2050. <i>Catena</i> , 2017 , 151, 74-86	5.8	46
28	Rapid daily and sub-daily temperature variations in an urban environment. <i>Climate Research</i> , 2017 , 73, 233-246	1.6	10
27	Climate change effects on groundwater resources: a new assessment method through climate indices and effective precipitation in Beliș district, Western Carpathians. <i>Meteorological Applications</i> , 2016 , 23, 554-561	2.1	11
26	AUTOMATED GEODATA PROCESSING FOR BLACK SEA INFLUENCE ASSESSMENT ON THE LAND SURFACE TEMPERATURE. <i>Environmental Engineering and Management Journal</i> , 2016 , 15, 405-411	0.6	1
25	Climate change effects on crop evapotranspiration in the Carpathian Region from 1961 to 2010. <i>Meteorological Applications</i> , 2016 , 23, 462-469	2.1	14
24	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	7	16
23	The summer surface urban heat island of Bucharest (Romania) retrieved from MODIS images. <i>Theoretical and Applied Climatology</i> , 2015 , 121, 631-640	3	37
22	Climate of the Romanian Carpathians. <i>Springer Atmospheric Sciences</i> , 2015 ,	0.7	12
21	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	3.5	116
20	VULNERABILITY OF GROUNDWATER UNDER CLIMATE CHANGE AND LAND COVER: A NEW SPATIAL ASSESSMENT METHOD APPLIED ON BELIS DISTRICT (WESTERN CARPATHIANS, ROMANIA). <i>Environmental Engineering and Management Journal</i> , 2015 , 14, 2959-2971	0.6	11

19	Projections of Future Changes in Climate of the Romanian Carpathians. <i>Springer Atmospheric Sciences</i> , 2015 , 199-205	0.7	1
18	Geographical and Synoptic Controls on the Climate. <i>Springer Atmospheric Sciences</i> , 2015 , 57-72	0.7	
17	Regional Climatic Patterns. <i>Springer Atmospheric Sciences</i> , 2015 , 73-148	0.7	
16	Changes in annual temperature extremes in the Carpathians since AD 1961. <i>Natural Hazards</i> , 2014 , 74, 1899-1910	3	31
15	Climate variability in the Carpathian Mountains Region over 1961-2010. <i>Global and Planetary Change</i> , 2014 , 118, 85-96	4.2	43
14	Spatiotemporal variability of meteorological drought in Romania using the standardized precipitation index (SPI). <i>Climate Research</i> , 2014 , 60, 235-248	1.6	33
13	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	8.1	68
12	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	3	23
11	Benchmarking homogenization algorithms for monthly data 2013 ,		15
10	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	16.2	93
9	Benchmarking homogenization algorithms for monthly data. <i>Climate of the Past</i> , 2012 , 8, 89-115	3.9	236
8	The wind regime of Romania [Characteristics, trends and North Atlantic oscillation influences. <i>Forum Geografic</i> , 2012 , XI, 118-126	1	5
7	COMPARISON BETWEEN RADAR ESTIMATED AND RAIN GAUGE MEASURED PRECIPITATION IN THE MOLDAVIAN PLATEAU. <i>Environmental Engineering and Management Journal</i> , 2012 , 11, 723-731	0.6	1
6	Climatologic adjustments to monthly precipitation in Romania. <i>International Journal of Climatology</i> , 2011 , 31, 704-714	3.5	16
5	Seasonal characteristics of flood regimes across the Alpine-Carpathian range. <i>Journal of Hydrology</i> , 2010 , 394, 78-89	6	153
4	The July urban heat island of Bucharest as derived from modis images. <i>Theoretical and Applied Climatology</i> , 2009 , 96, 145-153	3	71
3	The urban heat island of Bucharest during the extreme high temperatures of July 2007. <i>Theoretical and Applied Climatology</i> , 2009 , 97, 391-401	3	63
2	An investigation into the precipitation conditions in Romania using a GIS-based method. <i>Theoretical and Applied Climatology</i> , 2003 , 76, 77-88	3	12

1 RoCliB bias-corrected CORDEX RCM dataset over Romania. *Geoscience Data Journal*, 2.5 1