Sorin Cheval

List of Publications by Citations

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	Benchmarking homogenization algorithms for monthly data. *Climate of the Past*, **2012**, 8, 89-115	3.9	236
53	Seasonal characteristics of flood regimes across the Alpine-Carpathian range. *Journal of Hydrology*, **2010**, 394, 78-89	6	153
52	Climate of the Carpathian Region in the period 1961–2010: climatologies and trends of 10 variables. *International Journal of Climatology*, **2015**, 35, 1322-1341	3.5	116
51	Observed and Potential Impacts of the COVID-19 Pandemic on the Environment. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	112
50	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	16.2	93
49	The July urban heat island of Bucharest as derived from modis images. *Theoretical and Applied Climatology*, **2009**, 96, 145-153	3	71
48	Accuracy analysis for fifty-four clear-sky solar radiation models using routine hourly global irradiance measurements in Romania. *Renewable Energy*, **2013**, 55, 85-103	8.1	68
47	The urban heat island of Bucharest during the extreme high temperatures of July 2007. *Theoretical and Applied Climatology*, **2009**, 97, 391-401	3	63
46	Variability of the aridity in the South-Eastern Europe over 1961–2050. *Catena*, **2017**, 151, 74-86	5.8	46
45	Climate variability in the Carpathian Mountains Region over 1961–2010. *Global and Planetary Change*, **2014**, 118, 85-96	4.2	43
44	The summer surface urban heat island of Bucharest (Romania) retrieved from MODIS images. *Theoretical and Applied Climatology*, **2015**, 121, 631-640	3	37
43	Spatiotemporal variability of meteorological drought in Romania using the standardized precipitation index (SPI). *Climate Research*, **2014**, 60, 235-248	1.6	33
42	Changes in annual temperature extremes in the Carpathians since AD 1961. *Natural Hazards*, **2014**, 74, 1899-1910	3	31
41	Accuracy and sensitivity analysis for 54 models of computing hourly diffuse solar irradiation on clear sky. *Theoretical and Applied Climatology*, **2013**, 111, 379-399	3	23
40	Ten principles to integrate the water-energy-land nexus with climate services for co-producing local and regional integrated assessments. *Science of the Total Environment*, **2019**, 693, 133662	10.2	21
39	Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. *Biological Conservation*, **2021**, 263, 109175	6.2	20
38	Crop evapotranspiration assessment under climate change in the Pannonian basin during 1991–2050. *Meteorological Applications*, **2017**, 24, 84-91	2.1	16

37	Climatologic adjustments to monthly precipitation in Romania. *International Journal of Climatology*, **2011**, 31, 704-714	3.5	16
36	Effective monitoring and warning of Urban Heat Island effect on the indoor thermal risk in Bucharest (Romania). *Energy and Buildings*, **2016**, 127, 452-468	7	16
35	Benchmarking homogenization algorithms for monthly data **2013**,		15
34	Climate change effects on crop evapotranspiration in the Carpathian Region from 1961 to 2010. *Meteorological Applications*, **2016**, 23, 462-469	2.1	14
33	Exploratory analysis of cooling effect of urban lakes on land surface temperature in Bucharest (Romania) using Landsat imagery. *Urban Climate*, **2020**, 34, 100696	6.8	13
32	Climate of the Romanian Carpathians. *Springer Atmospheric Sciences*, **2015**,	0.7	12
31	An investigation into the precipitation conditions in Romania using a GIS-based method. *Theoretical and Applied Climatology*, **2003**, 76, 77-88	3	12
30	Meteorological and Ancillary Data Resources for Climate Research in Urban Areas. *Climate*, **2020**, 8, 37	3.1	11
29	Climate change effects on groundwater resources: a new assessment method through climate indices and effective precipitation in Beli district, Western Carpathians. *Meteorological Applications*, **2016**, 23, 554-561	2.1	11
28	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	0.6	11
27	Rapid daily and sub-daily temperature variations in an urban environment. *Climate Research*, **2017**, 73, 233-246	1.6	10
26	Statistical Gap-Filling of SEVIRI Land Surface Temperature. *Remote Sensing*, **2020**, 12, 1423	5	9
25	Influence of synoptic scale atmospheric circulation on the development of urban heat island in Prague and Bucharest. *Urban Climate*, **2020**, 34, 100681	6.8	8
24	Drip heterogeneity and the impact of decreased flow rates on the vadose zone fauna in Ciur-Izbuc Cave, NW Romania. *Ecohydrology*, **2018**, 11, e2028	2.5	7
23	Temperature changes and elevation-warming relationships in the Carpathian Mountains. *International Journal of Climatology*, **2021**, 41, 2154-2172	3.5	7
22	The wind regime of Romania Characteristics, trends and North Atlantic oscillation influences. *Forum Geografic*, **2012**, XI, 118-126	1	5
21	Recent changes in temperature and precipitation indices in the Southern Carpathians, Romania (1961 2018). *Theoretical and Applied Climatology*, **2021**, 144, 691-710	3	5
20	Identifying climate change hotspots relevant for ecosystems in Romania. *Climate Research*, **2020**, 80, 165-173	1.6	4

19	Black Sea impact on its west-coast land surface temperature. *Theoretical and Applied Climatology*, **2019**, 135, 1583-1593	3	4
18	MODIS-based climatology of the Surface Urban Heat Island at country scale (Romania). *Urban Climate*, **2022**, 41, 101056	6.8	3
17	Exploratory Analysis of Urban Climate Using a Gap-Filled Landsat 8 Land Surface Temperature Data Set. *Sensors*, **2020**, 20,	3.8	3
16	Homogenization of a combined hourly air temperature dataset over Romania. *International Journal of Climatology*, **2020**, 40, 2599-2608	3.5	3
15	A review of recent studies on heat wave definitions, mechanisms, changes, and impact on mortality. *Forum Geografic*, **2019**, XVIII, 96-114	1	2
14	Tornadoes in Romania□from Forecasting and Warning to Understanding Public□ Response and Expectations. *Atmosphere*, **2020**, 11, 966	2.7	2
13	SWAT Model Adaptability to a Small Mountainous Forested Watershed in Central Romania. *Forests*, **2021**, 12, 860	2.8	2
12	Comparison of spatial interpolation methods for estimating the precipitation distribution in Portugal. *Theoretical and Applied Climatology*, **2021**, 145, 1193-1206	3	2
11	Enriching the historical meteorological information using Romanian language newspaper reports: A database from 1880 to 1900. *International Journal of Climatology*, **2021**, 41, E548	3.5	2
10	AUTOMATED GEODATA PROCESSING FOR BLACK SEA INFLUENCE ASSESSMENT ON THE LAND SURFACE TEMPERATURE. *Environmental Engineering and Management Journal*, **2016**, 15, 405-411	0.6	1
9	Projections of Future Changes in Climate of the Romanian Carpathians. *Springer Atmospheric Sciences*, **2015**, 199-205	0.7	1
8	COMPARISON BETWEEN RADAR ESTIMATED AND RAIN GAUGE MEASURED PRECIPITATION IN THE MOLDAVIAN PLATEAU. *Environmental Engineering and Management Journal*, **2012**, 11, 723-731	0.6	1
7	Analysis of Sub-Daily Precipitation for the PannEx Region. *Atmosphere*, **2021**, 12, 838	2.7	1
6	Climate change perception in Romania.. *Theoretical and Applied Climatology*, **2022**, 1-20	3	1
5	RoCliB □bias-corrected CORDEX RCM dataset over Romania. *Geoscience Data Journal*,	2.5	1
4	A SPEI-Based Approach to Drought Hazard, Vulnerability and Risk Analysis in the Lower Danube River Region. *Earth and Environmental Sciences Library*, **2022**, 299-328		1
3	An enhanced Machado Index of naturalness. *Catena*, **2022**, 212, 106091	5.8	0
2	Geographical and Synoptic Controls on the Climate. *Springer Atmospheric Sciences*, **2015**, 57-72	0.7	

1 Regional Climatic Patterns. *Springer Atmospheric Sciences*, **2015**, 73-148 0.7