

Fișa îndeplinirii standardelor minimale CNADTCU, ianuarie 2026

Cercetător științific I dr. Sorin Cheval

Criteriul 1: 5 articole ca autor principal in reviste cu factor de impact, in baza de date Web of Science, cu AIS cumulate $\geq 3,5$; 3 articole in reviste BDI

Articole WOS publicate ca autor principal

1. Cheval S, Amihăesei VA, Dumitrescu A, Micu DM, Smău R-I (2025) Observed Variability and Future Projections of Urban Heatwaves in Romania. International Journal of Climatology 45(2): e8714 . <https://doi.org/10.1002/joc.8714>. AIS = **0.887**
2. Cheval S, Amihăesei VA, Chitu Z, et al (2024) A systematic review of urban heat island and heat waves research (1991–2022). Climate Risk Management 44:100603. <https://doi.org/10.1016/j.crm.2024.100603>. AIS = **1.196**
3. Cheval S, Dumitrescu A, Amihăesei V, Irașoc A, Paraschiv, M-G & Ghent, D (2023). A country scale assessment of the heat hazard-risk in urban areas. Building and Environment, 229, 109892. <https://doi.org/10.1016/j.buildenv.2022.109892>. AIS = **1.085**
4. Cheval, S., Bulai, A., Croitoru, A.-E., Dorondel, Ștefan, Micu, D., Mihăilă, D., Sfică, L., & Tișcovschi, A. (2022). Climate change perception in Romania. Theoretical and Applied Climatology. <https://doi.org/10.1007/s00704-022-04041-4>. AIS = **0.617**.
5. Cheval, S., Dumitrescu, A., Irașoc, A., Paraschiv, M.-G., Perry, M., & Ghent, D. (2022). MODIS-based climatology of the Surface Urban Heat Island at country scale (Romania). Urban Climate, 41, 101056. <https://doi.org/10.1016/j.uclim.2021.101056>. AIS = **1.023**.

Total: 5 articole publicate ca autor principal cu AIS cumulată 4.808

Articole BDI publicate ca autor principal

1. Cheval S, Dumitrescu A, Amihăesei V-A (2020) Exploratory Analysis of Urban Climate Using a Gap-Filled Landsat 8 Land Surface Temperature Data Set. Sensors 20, 5336. <https://doi.org/10.3390/s20185336>. (WoS)
2. Cheval S, Popa A-M, Șandric I, Iojă I-C (2020) Exploratory analysis of cooling effect of urban lakes on land surface temperature in Bucharest (Romania) using Landsat imagery. Urban Climate 34, 100696. <https://doi.org/10.1016/j.uclim.2020.100696>. (WoS)
3. Cheval S, Micu D, Dumitrescu A, Irimescu A, Frighenciu M, Iojă C, Tudose NC, Davidescu Ș, Antonescu B (2020) Meteorological and Ancillary Data Resources for Climate Research in Urban Areas. Climate 8, 37, doi: <https://doi.org/10.3390/cli8030037>. (WoS)

4. Dumitrescu A, Cheval S, Guijarro JA (2019) Homogenization of a combined hourly air temperature dataset over Romania. International Journal of Climatology, doi: <https://doi.org/10.1002/joc.6353>. (WoS)
5. Constantinescu D, Cheval S, Caracaș G, Dumitrescu A (2016) Effective Monitoring and Warning of Urban Heat Island Effect on the Indoor Thermal Risk in Bucharest (Romania). Energy and Buildings 127: 452-468, doi: <https://doi.org.j.enbuild.2016.05.068>. (WoS)

Total articole BDI publicate ca autor principal: 5

Criteriul 2: Vizibilitatea articolelor științifice - Indicele Hirsch WoS ≥ 4 .

Indice Hirsch WoS realizat: 26

Criteriul 3: Capacitatea de a susține activități de cercetare. B: Director/Lider de proiect/grant în 1 proiect/grant internațional sau responsabil de proiect/grant în 2 proiecte/granturi internaționale.

Climate-Resilient Development Pathways in Metropolitan Regions of Europe ([CARMINE](#)).
Finantator: Comisia Europeană. Bugetul proiectului: 10.174.000 euro. Perioada: 2024-2027.

Director (coordonator) de proiect.

Total : 1 proiect internațional ca director de proiect

31 ianuarie 2026

Cercetător științific I dr. Sorin Cheval