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**Research topics:**

1. **Urban climate**

The most significant publications include:

Cheval S, Dumitrescu A, Bell A (2009) The urban heat island of Bucharest during the extreme high temperatures of July 2007. *Theoretical and Applied Climatology* 97: 391-401. https://doi.org/10.1007/s00704-014-1250-8.

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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.

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1. **Natural hazards and risks**

The most significant publications include:

Lakatos M, Szentes O, Kalin KC, Nimac I, Kozjek K, Cheval S, Dumitrescu A, Irașoc A, Stepanek P, Farda A et al (2021) Analysis of Sub-Daily Precipitation for the PannEx Region. Atmosphere 12, 838. https://doi.org/10.3390/atmos12070838.

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1. **Climate variability and climate change**

The most significant publications include:

Cheval S, Dumitrescu A, Birsan M-V (2017) Variability of the aridity in the South-Eastern Europe over 1961–2050. *Catena* 151: 74-86, doi: 10.1016/j.catena.2016.11.029.

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