Olimpiu Traian Pop

Lista de publicatii

1. **Olimpiu Pop,** Armelle Decaulne, Eliza Płaczkowska, Emmanuelle Defive, Ionela-Georgiana Răchită, Csaba Horváth, **2026**. Frequency and magnitude of rainfall-triggered debris-flows in Mont Dore valley, Sancy Massif (French Central Massif). **Geomorphology** 514: 110545.

2. Ionela-Georgiana Răchită, George Iacob, Lăcramioară Maghiar, Kinga Temerdek-Ivan, Iulian-Horia Holobâcă, Adrian-Ilie Stoica, Veerle Vanacker, Csaba Horváth, **Olimpiu Pop**, **2026**. Multi-scale reconstruction of snow-avalanche frequency and vegetation structure using dendrogeomorphology, satellite imagery, and UAV photogrammetry. **Catena** 274: 110505. **(WoS)**

3. **Olimpiu Pop,** Ionela-Georgiana Gavrilă, Voicu Bodocan, **2025**. Timing and spatial extent of snow avalanches inferred from tree rings in Şureanu Mountains (Southern Carpathians, Romania). **Natural Hazards** 121: 16297–16315.

4. Radek Tichavský, **Olimpiu Pop**, Ionela-Georgiana Răchită, Barbora Koláčková, Marek Novák, Eliška Rozsívalová, **2025**. Debris flow activity in the Southern Carpathians: Regional chronology and hydrometeorological drivers. **Catena** 254: 109000. **(WoS)**

5. **Olimpiu Pop**, Radek Tichavský, Wojciech Tylmann, Anca Avran, Alida Timar-Gabor, Wolfgang Römer, Karol Tylmann, Armelle Decaulne, Stefan Winkler, Ioan Tanțău, **2024**. Dating Techniques. In "*Climate and Anthropogenic Impacts on Earth Surface Processes in the Anthropocene*", Beylich A.A., Tarrío D.V, Marteles M.M. (Eds.), Elsevier, pp. 79-104. DOI: 10.1016/B978-0-443-13215-5.00012-7

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7. Armelle Decaulne, Ionela Georgiana Gavrilă, Dariia Kholiavchuk, **Olimpiu Pop**, Iulian-Horia Holobâcă, Oles Ridush, Bogdan Ridush, Csaba Horváth, **2023**. Patterns of snow avalanche activity during the last century in Chornohora Range (Eastern Carpathians, Ukraine): Tree-ring reconstruction coupled with synoptic conditions analysis. **Catena** 233: 107523. **(WoS)**

8. Adriana Bianca Ovreiu, **Olimpiu Pop**, Constantin Razvan Oprea, Andreea Andra-Topârceanu, Nicolae Cruceru, **2023**. The spatio-temporal analysis of the rockfall activity of the past two centuries through dendrogeomorphic reconstruction in Cozia Massif (Southern Carpathians, Romania). **Natural Hazards** 119: 1683–1712. **(WoS)**

9. Ionela Georgiana Gavrilă, Dariia Kholiavchuk, Iulian Horea Holobâcă, Oles Ridush, Csaba Horváth, Bogdan Ridush, Flaviu Meseşan, **Olimpiu Traian Pop**, **2022.** Tree-ring records of snow-avalanche activity in the Rodna Mountains (Eastern Carpathians, Romania). Natural Hazards 114: 2041–2057. **(WoS)**

10. Daniel Germain, **Olimpiu Traian Pop**, Mathieu Gratton, Iulian-Horea Holobaca, Cristina Burada, **2022**. Snow-avalanche hazard assessment based on dendrogeomorphic reconstructions and classification tree

algorithms for ski area development, Parang Mountains, Romania. **Cold Regions Science and Technology** 201: 103612. **(WoS)**

11. Radek Tichavský, **Olimpiu Traian Pop**, Martin Mihaljevič, Karel Šilhán, Lenka Vondrovicová, **2021**. Tree ring archives of debris flow contamination in a post-mined area: Combined dendroecological research. **Catena** 207: 105595. **(WoS)**

12. Iulian-Horia Holobâcă, Levan G. Tielidze, Kinga Ivan, Mariam Elizbarashvili, Mircea Alexe, Daniel Germain, Sorin Hadrian Petrescu, **Olimpiu Traian Pop** and George Gaprindashvili, **202**1. Multi-sensor remote sensing to map glacier debris cover in the Greater Caucasus, Georgia. **Journal of Glaciology** 67 (264): 685–696. **(WoS)**

13. Razvan Popescu, Vespremeanu-Stroe, **Olimpiu Pop**, Nicolae Cruceru, **2021**. Rock glaciers vegetation colonization in Retezat Mountains: implications for morphodynamics and palaeoclimate reconstruction. **Revista de Geomorfologie** 23 (1): 73 – 89. **(Scopus)**

14. Daniel Germain, Ionela-Georgiana Gavrilă, Mariam Elizbarashvili, **Olimpiu Pop, 2020.** Multidisciplinary approach to sediment connectivity between debris-flow channel network and the Dolra River, Mazeri Valley, Southern Caucasus, Georgia. **Geomorphology** 371: 107455. **(WoS)**

15. Corina Todea**, Olimpiu Pop**, Daniel Germain, **2020.** Snow–avalanche history reconstructed with tree rings in Parâng Mountains (Southern Carpathians, Romania). Revista de Geomorfologie 22 (1): 73-85 **(Scopus)**

16. **Olimpiu Pop,** Daniel Germain, Flaviu Meseşan, Ionela-Georgiana Gavrilă, Mircea Alexe, Liviu Buzilă, Iulian Holobâcă, Ioan-Aurel Irimuş, **2019.** Dendrogeomorpholgical assessment and sediment transfer of natural vs. mining-induced debris-flow activity in Călimani Mountains, Eastern Carpathians, Romania. **Geomorphology** 327: 188–200. **(WoS)**

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18. Flaviu Meseşan, Ionela-Georgiana Gavrilă, **Olimpiu Pop, 2018**. Calculating snow avalanche return period from tree-ring data. **Natural Hazards** 94 (3): 1081–1098. **(WoS)**

19. **Olimpiu Pop**, Anca Muntean, Flaviu Mesesan, Ionela Gavrila, Cosmin Timofte, Iulian-Horia Holobâcă, **2018**. Tree ring-based reconstruction of high-magnitude snow avalanches in Piatra Craiului Mountains (Southern Carpathians, Romania). **Geografiska Annaler-Series A, Physical Geography** 100 (2): 99–115. **(WoS)**

20. Răzvan Popescu, Alfred Vespremeanu-Stroe, Alexandru Onaca, Mirela Vasile, Nicolae Cruceru, **Olimpiu Pop**, **2017**. Low-altitude permafrost research in an overcooled talus slope–rock glacier system in the Romanian Carpathians (Detunata Goală, Apuseni Mountains). **Geomorphology** 295: 840–854. **(WoS)**

21. **Olimpiu Pop**, Ionela-Georgiana Gavrilă, Gheorghe Roşian, Flaviu Meseşan, Armelle Decaulne, Iulian-Horea Holobâcă, Titu Anghel, **2016**. A century-long snow avalanche chronology reconstructed from tree-rings in Parang Mountains (Southern Carpathians, Romania). **Quaternary International** 415: 430–440. **(WoS)**

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