

Lista lucrărilor științifice

Cărți

Onaca, A., 2017, Procese și forme periglaciare din Carpații Meridionali. Abordare geomorfologică și geofizică. Editura Universității de Vest, Timișoara, 264 p.

Articole publicate în reviste cotate ISI

1. Popescu, R., Vespremeanu-Stroe, A., **Onaca, A.**, Vasile, M., Cruceru, N., Pop, O., 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. <https://doi.org/10.1016/j.geomorph.2017.07.029>
2. **Onaca, A.**, Ardelean, F., Urdea, P., Magori, B., 2017. Southern Carpathian rock glaciers: inventory, distribution and environmental controlling factors, *Geomorphology*. 293, 391-404. doi.org/10.1016/j.geomorph.2016.03.03.
3. Ardelean, **A.**, **Onaca, A.**, Urdea, P., Sărășan, A., 2017. Quantifying postglacial sediment storage and denudation rates in a small alpine catchment of the Făgăraș Mountains (Romania), *Science of the Total Environment*, 599-600, 1756-1767. <http://dx.doi.org/10.1016/j.scitotenv.2017.05.131>
4. Voiculescu, M., **Onaca, A.**, Chiroiu, P., 2016. Dendrogeomorphic reconstruction of past snow avalanche events and identification of triggering weather conditions in the Bâlea glacial valley - Făgăraș massif (Southern Carpathians), *Romanian Carpathians. Quaternary International*, **415**, 286-302. [doi:10.1016/j.quaint.2015.11.115](https://doi.org/10.1016/j.quaint.2015.11.115)
5. Necșoiu, M., Mîndrescu, M., **Onaca, A.**, Wigginton, S., 2016. Recent morphodynamics of alpine lakes in Southern Carpathians Mountains using high-resolution optical imagery. *Quaternary International*, **415**, 164-174 [doi:10.1016/j.quaint.2015.12.032](https://doi.org/10.1016/j.quaint.2015.12.032)
6. Necșoiu, M., **Onaca, A.**, Wigginton, S., Urdea, P., 2016, Rock glacier dynamics in Southern Carpathian Mountains from high-resolution optical and multi-temporal SAR satellite imagery, *Remote Sensing of Environment*, **177**, 21–36. [doi:10.1016/j.rse.2016.02.025](https://doi.org/10.1016/j.rse.2016.02.025)
7. Chiroiu, P., Ardelean, A., **Onaca, A.**, Voiculescu, M., Ardelean, F., 2016. Assessing the anthropogenic impact on geomorphic processes using tree-rings: a case study in the Făgăraș Mountains (Romanian Carpathians). *Carpathian Journal of Earth and Environmental Sciences*, **11**, 1, 27-36.
8. **Onaca, A.**, Ardelean, A.C., Urdea, P., Ardelean, F., Sărășan, A., 2016. Genetic typologies of talus deposits derived from GPR measurements in the alpine environment of Făgăraș Mountains, *Carpathian Journal of Earth and Environmental Sciences*, **11**, 2, 609-616.
9. Timofte, F., **Onaca, A.**, Urdea, P., Pravetz, T., 2016. The evolution of Mureș channel in the lowland section between Lipova and Nădlac (in the last 150 years), assessed by GIS analysis. *Carpathian Journal of Earth and Environmental Sciences*, **11**, 2, 319-330.
10. Popescu, M., Șerban, R.D., Urdea, P., Onaca, A., 2016. Conventional geophysical surveys for landslide investigations: two case studies from Romania. *Carpathian Journal of Earth and Environmental Sciences*, **11**, 1, 281-292.
11. Chiroiu, P., Stoffel, M., **Onaca, A.**, Urdea, P., 2015, Testing dendrogeomorphic approaches and thresholds to reconstruct snow avalanche activity in the Făgăraș Mountains (Romanian Carpathians), *Quaternary Geochronology*, **27**, 1–10.

12. **Onaca, A.**, Ardelean, A. C., Urdea, P., Ardelean, F., Sîrbu, F., 2015, Detection of mountain permafrost by combining conventional geophysical methods and thermal monitoring in the Retezat Mountains, Romania, *Cold Regions Science and Technology*, **119**, 111-123
13. Popescu, R., Vespremeanu-Stroe, A., **Onaca, A.**, Cruceru, N., 2015. Permafrost in the granitic massifs of Southern Carpathians (Parâng Mountains). *Zeitschrift für Geomorphologie*, 59, 1, 1-20. doi.org/10.1127/0372-8854/2014/0145
14. Ardelean, A.C., **Onaca, A.**, Urdea, P., Şerban, R.D., Sârbu, F., 2015. A first estimate of permafrost distribution from BTS measurements in the Romanian Carpathians (Retezat Mountains). *Géomorphologie: Relief, Processus, Environment*, **21 (4)**, 297-312. DOI: 10.4000/geomorphologie.11131
15. Şerban, R.D., **Onaca, A.**, Urdea, P., Popescu, M., 2015, Multivariate prediction model for block streams occurrence in Retezat Mountains (Southern Carpathians), *Carpathian Journal of Earth and Environmental Sciences*, **10, 1**, 113-122
16. Voiculescu, M., **Onaca, A.**, 2014, Spatio-temporal reconstruction of snow avalanche activity using dendrogeomorphological method in Bucegi Mountains-Romanian Carpathians, *Cold Region Science and Technology*, **104-105**, 63-75.
17. **Onaca, A.**, Urdea, P., Ardelean, A.C., 2013, Internal structure and permafrost characteristics of the rock glaciers of Southern Carpathians (Romania) assessed by geoelectrical soundings and thermal monitoring, *Geografiska Annaler, Series A: Physical Geography*, 95, 3, 249-266.
18. Voiculescu, M., **Onaca, A.**, 2013, Snow avalanche assessment in the Sinaia ski area (Bucegi Mountains, Southern Carpathians) using the dendrogeomorphology method, *Area*, 45 (1), 109-122, doi:10.1111-area.12003.
19. **Onaca, A.**, Urdea, P., Ardelean, A., Şerban, R., 2013, Assessment of internal structure of periglacial landforms from southern carpathians (romania) using dc resistivity tomography, *Carpathian Journal of Earth and Environmental Sciences*, 8 (2), 113-122.
20. Voiculescu, M., Ardelean, F., **Onaca, A.**, Török-Oance, M., 2011, Analysis of snow avalanche potential in Bâlea glacial area - Făgăraş massif, (Southern Carpathians - Romanian Carpathians), *Zeitschrift für Geomorphologie*, Stuttgart, 55 (3): 291-316, doi:10.1127/0372-8854/2011/0054

Capitole în cărți

1. **Onaca, A.**, Urdea, P., Ardelean, A.C., Şerban, R., Ardelean, F., 2017. 3.4. *Present-day periglacial processes in the alpine zone*. In: Landform dynamics and evolution in Romania, Eds. Rădoane, M., Vespremeanu-Stroe, A., 147-176, *Springer Verlag*.
2. Popescu, R., **Onaca, A.**, Urdea, P., Vespremeanu-Stroe, A., 2017. 3.2. *Spatial distribution and main characteristics of alpine permafrost from Southern Carpathians*, In: Landform dynamics and evolution in Romania, Eds: Rădoane, M., Vespremeanu-Stroe, A., 117-146. *Springer Verlag*.
3. Mreyen A-S., Micu, M., **Onaca, A.**, Cerfontaine, P., Havenith, H-B., 2017, *Integrated geological-geophysical models of unstable slopes in seismic areas*, In: The 4th World Landslide Forum, Ed. M. Mikos, Springer Nature.
4. Voiculescu, M., **Onaca, A.**, Chiroiu, P., 2013, Dynamique forestiere et impact des avalanches par la methode dendrochronologique. Vallée glaciaire Bâlea, Massif de Făgăraş (Carpates Meridionales,

- Roumanie), în: A. Decaulne (ed.), *Arbres & dynamiques*, **Maison des Sciences de l'Homme**, Clermont-Ferrand, 89-102
5. Urdea, P., **Onaca, A.**, Ardelean F., Ardelean, M., 2011, New Evidence on the Quaternary Glaciation on the Romanian Carpathians (Chapter 24) în *Developments in Quaternary Science*, vol. 15 (Quaternary Glaciations - Extent and Chronology), ed.: J. Ehlers, P.L. Gibbard, P.D. Hughes, **Elsevier**, 305-323, [doi:10.1016/B978-0-444-53447-7.00024-6](https://doi.org/10.1016/B978-0-444-53447-7.00024-6);
 6. Onaca, A., Urdea, P., Ardelean A.C., Timofte, R., 2014. Geoelectric surveying, in: Sipos, G., Urdea, P., Blanka, V., Selected geophysical and geochronological techniques serving earth sciences and archaeology. Szegedi Tudományegyetem, Természeti Földrajzi és Geoinformatikai Tanszék, 119-140.
 7. Urdea, P., Sipos, G., Kiss, T., **Onaca, A.**, 2012, The Maros/Mureş, în: G. Sipos (ed.), *Past, Present, Future of the Maros/Mureş River*, Editura Universităţii de Vest din Timișoara, 9-33 / 159-167;
 8. Kiss, T., Urdea, P., Sipos, G., Sümeghy, B., Katona, O., Tóth, O., **Onaca, A.**, Ardelean, F., Timofte, F., Ardelean, C., **2012**, The past of the river, în: G. Sipos (ed.), *Past, Present, Future of the Maros/Mureş River*, Editura Universităţii de Vest din Timișoara, 33-64 / 167-178;
 9. Sipos, G., Právetz, T., Katona, O., Ardelean, F., Timofte, F., **Onaca, A.**, Kiss, T., Kovács, F., Tobak, Z., **2012**, The ever changing river, în: G. Sipos (ed.), *Past, Present, Future of the Maros/Mureş River*, Editura Universităţii de Vest din Timișoara, 65-106 / 179-192;
 10. Blanka, V., Mezösi, G., Sipos, G., van Leeuwen, B., Urdea, P., Onaca, A., 2012, Climatic perspectives, , în: G. Sipos (ed.), *Past, Present, Future of the Maros/Mureş River*, Editura Universităţii de Vest din Timișoara.

Articole BDI / CNCS B⁺

1. **Onaca, A.**, Magori, B., Urdea, P., Chiroiu, P., 2015, Near surface thermal characteristics of alpine steep rockwalls in the Retezat Mountains, *Forum geografic. Studii și cercetări de geografie și protecția mediului*, XIV, 2, 124-133.
2. Șerban, R.D., Sipos, G., Popescu, M., Urdea, P., **Onaca, A.**, Ladányi, Z., 2015, Comparative grain-size measurements for validating sampling and pretreatment techniques in terms of solifluction landforms, Southern Carpathians, Romania, *Journal of Environmental Geography*, 8, 1–2, 39–47.
3. Șerban, R.D., **Onaca, A.**, Urdea, P., Popescu, M., 2015, Generation and accuracy assessment of Digital Elevation Models in mountain area, *Geographica Timisiensis*, 24(1).
4. Timofte, F., **Onaca, A.**, 2016, Paleo discharge of Mureş River in the lowland area, *Ecoterra journal of environmental research and protection*, 13 (1), 7-13.
5. Katona, O., Sipos, G., **Onaca, A.**, Ardelean F., 2012, Reconstruction of palaeo-hydrology and fluvial architecture at the Orosháza palaeo-channel of river Maros, Hungary, *Journal of Environmental Geography*, 5 (1–2): 29–38.
6. Ardelean, F., Török-Oance, M., Urdea, P., **Onaca, A.**, 2011, Application of object based image analysis for glacial cirques detection. Case study: the Țarcu Mountains (Southern Carpathians). *Forum geografic. S.C.G.P.M*, 10(1): 20-26, [doi:10.5775/fg.2067-4635.2011.007.i](https://doi.org/10.5775/fg.2067-4635.2011.007.i)

7. Voiculescu, M., Popescu, F., Török-Oance, M., Olaru, M., **Onaca, A.**, 2011, Features of the ski area from the Romanian Banat, *Forum geografic. Studii și cercetări de geografie și protecția mediului*, **10**, 1 / June, 58-69.
8. Voiculescu, M., Popescu, F., **Onaca, A.**, Török-Oance M., 2011, Ski activity in western part of Southern Carpathians. Case study: Straja ski area, *Analele Universității din Oradea – Seria Geografie*, **XXI, 2** (December), 159-171.
9. Voiculescu, M., **Onaca, A.**, Milian, N., Ardelean, F., Török-Oance, M., Stăncescu, M., 2010, Analysis of Snow Avalanche from Mars, 07, 2007 within the Căltun-Negoiu Area, in the Făgăraș Massif (Southern Carpathians), *Analele Universității din Oradea – Seria Geografie*, **XX, 1 (June)**, 22-33.
10. Török-Oance, M., Ardelean, F., **Onaca, A.**, 2009, The semiautomated Identification of the planation surfaces on the basis of the digital terrain model. Case study: The Mehedinți Mountains (Southern Carpathians), *Forum Geografic. Studii și cercetări de geografie și protecția mediului*, **8**: 5-13.
11. Urdea, P., Ardelean, M., Ardelean, F., **Onaca, A.**, 2008. An outlook on periglacial of the Romanian Carpathians, *Analele Universității de Vest din Timișoara, GEOGRAFIE*, **18**, 5-22.
12. Urdea, P., **Onaca, A.**, Ardelean, F., 2007. Application of DC resistivity tomography on glacial deposits in the Bâlea-Valea Doamnei area, Făgăraș Mountains, *Analele Universității de Vest din Timișoara, GEOGRAFIE*, **17**, 5-22.