

## RAMONA BĂLC - LISTA DE LUCRĂRI

### A. Lista celor maximum 10 lucrări relevante pentru realizările profesionale proprii

1. **Bălc, R.**, Bindiu-Haitonic, R., Kövecsi, S-A., Vremir, M., Ducea, M., Csiki-Sava, Z., Țabără, D., Vasile, Ș., 2024. Integrated biostratigraphy of Upper Cretaceous deposits from an exceptional continental vertebrate-bearing marine section (Transylvanian Basin, Romania) provides new constrains on the advent of “dwarf dinosaur” faunas in Eastern Europe. *Marine Micropaleontology*, 102328 (accepted).
2. Dicu, T., Cucoș, A., Botoș, M., Burghel, B., Florică, Ș., Baciu, C., Ștefan, B., **Bălc, R.**, 2023. Exploring statistical and machine learning techniques to identify factors influencing indoor radon concentration. *Science of the Total Environment*, 905, 167024
3. Ganea, I.V., **Bălc, R.**, Begy, R.C., Tanțău, I., Gligor, D.M., 2023. Combining contamination indices and multivariate statistical analyses for metal pollution evaluation during the last century in lacustrine sediments of Lacu Sărat Lake, Romania. *International Journal of Environmental Research and Public Health*, 20(2): 1342
4. Chiriluș, G.V., Lakatos, E.S., **Bălc, R.**, Bădărău, S.A., Cioca, L.I., David, G.M., Roșian, G., 2022. Assessment of organic carbon sequestration from romanian degraded soils: Livada forest plantation case study. *Atmosphere*, 13(9): 1452
5. Chan, S.A., **Bălc, R.**, Humphrey, J.D., Amao, A.O., Kaminski, M.A., Alzayer, Y., Duque, F., 2022. Changes in paleoenvironmental conditions during the Late Jurassic of the western Neo-Tethys: calcareous nannoplanktons and geochemistry. *Marine Micropaleontology*, 173: 102116.
6. Ispas, G., Roba, C., **Bălc, R.**, Gligor, D. 2022. Heavy metals in soils and vegetables cultivated in several greenhouses from Botoșani county, Romania. *Environmental Engineering and Management Journal*, 21(1): 91-103
7. Roba, C., **Bălc, R.**, Creța, F., Andreica, D., Păducean, A., Pogăcean, P., Cherteș, T., Moldovan, F., Mocan, B., Roșu, C., 2021. Assessment of groundwater quality in NW of Romania and its suitability for drinking and agricultural purposes. *Environmental Engineering and Management Journal*, 20(3): 435-447
8. **Bălc, R.**, Roba, C., Roșian, G., Costin, D., Horvath, C., Zglobiu, O.R., Chirtoș, D., 2020. Changes in the physico-chemical properties of topsoil in a landslide-affected area (western part of Transylvanian Basin, Romania). *Geological Quarterly*, 64(4): 931-941
9. Farkas, A., Mereuti, F., Butiuc-Keul, A., Podar, D., Roba, C., **Bălc, R.**, 2020. Effects of long-term exposure to heavy metals upon rhizosphere bacteria from Baia Mare area (Maramureș County, Romania). *Geomicrobiology Journal*, 37(9): 867-876.
10. Barhoumi, B., Beldean-Galea, S.M., Al-Rawabdeh, A.M., Roba, C., Martonos, I.M., **Bălc, R.**, Kahlaoui, M., Touil, S., Tedetti, M., Driss, M.R., Baciu, C., 2019. Occurrence,

distribution and ecological risk of trace metals and organic pollutants in surface sediments from a Southeastern European River (Someșu Mic River, Romania). *Science of the Total Environment*, 660: 660-676

## B. Teza de doctorat

Doctor în Geologie (NANNOPLANCTON CALCAROS ÎN DEPOZITELE CRETACICULUI SUPERIOR DIN APUSENII DE SUD); Domeniul de cercetare: Geologie; Micropaleontologie; Biostratigrafie. Organizația: Universitatea “Babeș-Bolyai”, Facultatea de Biologie și Geologie, Cluj-Napoca.

## C. Articole/studii, publicate în fluxul științific internațional principal

1. Ocrain, A., **Bălc, R.**, Măcicăsan, V., Dicu, T., Bodmer, M.D.V., Roba, A.C. How can land use management in traditional cultural landscapes become a policy instrument for carbon sequestration and climate change mitigation? A Transylvanian case study. *Land Use Policy*, under review.
2. Lázár, B., Falahatgar, M., Sarfi, M., Kallanxhi, M-E., **Bălc, R.**, Silye, L., 2023. Biostratigraphy and paleoenvironmental analysis of the Lower Miocene Qom Formation (Jaam area, Central Iranian Basin). *Rivista Italiana di Paleontologia e Stratigrafia*, 129(3), 609-628.
3. Ghandour, I., **Bălc, R.**, Faris, M., Helal, S., Mosa, G.A., Aljahdali, M.H., 2023. New insight into the Middle Eocene calcareous nannoplankton biostratigraphy and paleoenvironment from Fayoum and Beni Suef areas, Egypt. *Rivista Italiana di Paleontologia e Stratigrafia*, 129(2), 343-359.
4. Țabără, D., Slimani, H., Chelariu, C., Bindiu-Haitonic, R., **Bălc, R.**, Csiki-Sava, Z., Fabiańska, M., Misz-Kennan, M., Chelariu, M., 2023. Five million years of life history record in an uppermost Cretaceous northern Tethyan amrine succession, Eastern Carpathians (Romania): Microfossil content and palaeoenvironmental assessment. *Review of Paleaeoborany and Palynology*, 313, 104878.
5. Bercea, R-I., **Bălc, R.**, Tămaș, A., Filipescu, S., Tămaș, D.M., Guillong, M., Szekely, S.F., Lukács, R., 2023. Insights into the palaeoenvironments, structure and stratigraphy of the lower Miocene of the Eastern Carpathians Bend Zone, Romania. *Geological Quarterly*, 67(2), 1-37.
6. Țabără, D., Vasile, Ș., Csiki-Sava, Z., **Bălc, R.**, Vremir, M., Chelariu, M., 2022. Palynological and organic geochemical analyses of the Upper Cretaceous Bozeș Formation at Petrești (southwestern Transylvanian Basin) – biostratigraphic and palaeoenvironmental implications. *Cretaceous Research*, 134, 105148
7. Trif, N., Arghiuș, V., Seitz, J.C., Codrea, V.A., **Bălc, R.**, Bindiu-Haitonic, R., 2022. Integrated palaeontological investigation of a new mid-late Bartonian fish fauna from Călata area, Transylvanian Basin, Romania, *Historical Biology*, 34(9), 1788-1816.
8. Bindiu-Haitonic, R., **Bălc, R.**, Kövecsi, S-A., Pleș, G., Silye, L., 2021. A dataset of calcareous nannoplankton and smaller benthic foraminifera from a middle Eocene nummulitic accumulation (Transylvanian Basin, Romania). *Data in Brief*, 36: 107154
9. Bindiu-Haitonic, R., **Bălc, R.**, Kövecsi, S-A., Pleș, G., Silye, L., 2021. In the shadow of giants: calcareous nannoplankton and smaller benthic foraminifera from an Eocene

- nummulitic accumulation (Transylvanian Basin, Romania). *Marine Micropaleontology*, 165: 101988
10. Kaminski, M.A., Amao, A.O., Babalola, L.O., **Bălc. R.**, Chan, S.A., Gull, H.M., Khamsin, A.B., Malik, M.H., 2020. Benthic foraminiferal assemblages from maximum flooding surface J30, Middle Jurassic Dhruma Formation, Central Saudi Arabia. *Stratigraphy*, 17(4): 279-292
  11. Ispas, G-M., Roba, C., **Bălc. R.**, Gligor D-M., 2020. The content of nutrients and contaminant in soil and vegetables cultivated in several greenhouses from Botoșani county and their impact on human health. *Carpathian Journal of Earth and Environmental Sciences*, 15(2): 415-428
  12. Filipescu, S., Tămaș, D.M., Bercea, R-I., Tămaș, A., **Bălc. R.**, Țabără, D., Bindiu-Haitonic, R., Silye, L., Auer, A., Krézsek, C., Schleider, Z., Săsăran, E., 2020. Biostratigraphic re-evaluation of the lower to middle Miocene succession in the Eastern Carpathians: a case study to the oil fields of the Diapir Fold Zone, Romania. *Geological Quarterly*, 64(3): 783-802
  13. Chelaru, R., Săsăran, E., Tămaș, T., **Bălc. R.**, Bucur, I.I., Pleș, G., 2019. Middle Miocene carbonate facies with rhodoliths from the NW Transylvanian Basin (Vălenii Șomcutei Cave, Romania). *Facies*, 65(4): 1-16
  14. Kallanxhi, M-E, **Bălc. R.**, Čorić, S., Székely, S-F., Filipescu, S., 2018. The Rupelian – Chattian transition in the north-western Transylvanian Basin (Romania) revealed by calcareous nannofossils: implications for biostratigraphy and palaeoenvironmental reconstruction. *Geologica Carpathica*, 69(3): 264-282
  15. Kaminski, M.A., Septriandi, A.C., **Bălc. R.**, Gull, H.M., Amao, A.O., Babalola, L.O., 2018. Middle Jurassic planktonic foraminifera in Saudi Arabia – a new biostratigraphical marker for the J30 maximum flooding surface in the Middle East. *Stratigraphy*, 15(1): 37-46
  16. Ispas, G., Roba, C., **Bălc. R.**, Coadă, M., Gligor, D., 2018. The quality of water and soil in Haneş mining area, Alba County, Romania. *Carpathian Journal of Earth and Environmental Sciences*, 13(2): 505-514.
  17. **Bălc. R.**, Tămaș, T., Popiță, G., Vasile, G., Bratu, M.C., Gligor, D.M., Moldovan, C., 2018. Assessment of chemical elements in soil, grapes and wine from two representative vineyards in Romania. *Carpathian Journal of Earth and Environmental Sciences*, 13(2): 435-446
  18. Antohi-Trandafir, O., Timar-Gabor, A., Vulpoi, A., **Bălc. R.**, Longman, J., Vereș, D., Simon, S., 2018. Luminescence properties of natural muscovite relevant to optical dating of contaminated quartz samples. *Radiation Measurements*, 109: 1-7
  19. Bindiu-Haitonic, R., Niculici, S., Filipescu, S., **Bălc. R.**, Aroldi, C., 2017. Biostratigraphy and palaeoenvironments of the Eocene deep-water deposits of the Tarcău Nappe (Eastern Carpathians, Romania) based on agglutinated foraminifera and calcareous nannofossil assemblages. In: Kaminski, M.A. & Alegret, L., (eds), 2016. Proceedings of the Ninth International Workshop on Agglutinated Foraminifera. *Grzybowski Foundation Special Publication*, 22, 17-37
  20. Teleșpan, A., **Bălc. R.**, Kaminski, M.A., 2017. Seasonal variation in populations of *Entzia macrescens* (Brady) from a salt marsh in Transylvania, Romania. In: Kaminski, M.A. & Alegret, L., (eds), 2016. Proceedings of the Ninth International Workshop on Agglutinated Foraminifera. *Grzybowski Foundation Special Publication*, 22, 221-227

21. Ganea, I-V., Roba, C., Gligor, D., Farkas, A., **Bălc, R.**, Moldovan, M., 2017. Assessment of environmental quality in Lacu Sărăt area (Brăila county, Romania). *Carpathian Journal of Earth and Environmental Sciences*, 12(2):377-387
22. Zaharia, L., **Bălc, R.**, Stremtan, C.C., Socaciu, A., 2016. Geochemistry of Upper Cretaceous sediments of Bozeș Formation (Apuseni Mts., Romania) – provenance implications. *Geological Quarterly*, 60(3): 747-758
23. Bindiu-Haitonic, R-E., Filipescu, S., **Bălc, R.**, Gligor, D-M., Barbu, L., 2016. The middle/late Eocene transition in the Eastern Carpathians (Romania) based on foraminifera and calcareous nannofossil assemblages. *Geological Quarterly*, 60(1): 38-55
24. Vremir, M., **Bălc, R.**, Csiki-Sava, Z., Brusatte, S.L., Dyke, G., Naish, D., 2014. Petrești-Arini – an important but ephemeral Upper Cretaceous continental vertebrate site in the southwestern Transylvanian Basin, Romani. *Cretaceous Research*, 49: 13-38
25. Kaminski, M.A., Kender, S., Ciurej, A., **Bălc, R.**, Setoyama, E., 2013. Pliocene Agglutinated Benthic Foraminifera from Site U1341 in the Bering Sea (IODP Expedition 323). *Geological Quarterly*, 57/2: 335-342
26. Bindiu, R., **Bălc, R.**, Filipescu, S., 2013. Biostratigraphy and paleoenvironment of the Upper Cretaceous deposits in the northern Tarcau Nappe (Eastern Carpathians) based on foraminifera and calcareous nannoplankton. *Geologica Carpathica*, 64/2: 117-32
27. Beldean, C., Filipescu, S., **Bălc, R.**, 2012. Paleoenvironmental and biostratigraphic data for the Early Miocene of the North-Western Transylvanian Basin based on planktonic foraminifera. *Carpathian Journal of Earth and Environmental Sciences*, 7/1: 171-184
28. **Bălc, R.**, Zaharia, L., Suciu-Krausz, E., Kristaly, F., 2012. New upper Cretaceous deposits in the south-eastern Trascau Mountains (Apuseni Mts., Romania). *Carpathian Journal of Earth and Environmental Sciences*, 7/1: 17-26
29. Cetean, C.G., **Bălc, R.**, Kaminski, M.A., Filipescu, S., 2011. Integrated biostratigraphy and paleoenvironments of an upper Santonian-upper Campanian succession from the southern part of the Eastern Carpathians, Romania. *Cretaceous Research*, 32/5: 575-590
30. Kaminski, M.A., Cetean, C.G., **Bălc, R.**, Coccioni, R., 2011. Upper Cretaceous deep-water agglutinated foraminifera from the Contessa Highway Section, Umbria-Marche Basin, Italy: taxonomy and biostratigraphy. In: Filipescu, S & Kaminski, M.A. (eds), Proceedings of the 8th International Workshop on Agglutinat-ed Foraminifera. *Grzybowski Foundation Special Publication*, 16: 71-106.
31. Beldean, C., Filipescu, S., **Bălc, R.**, 2010. An Early Miocene biserial foraminiferal event in the Transylvanian Basin (Romania). *Geologica Carpathica*, 61/3: 227-234

**D. Articole publicate în jurnale indexate BDI și alte articole publicate în volumele unor manifestări științifice internaționale recunoscute din țară și străinătate:**

1. Dulai, A., Trif, N., **Bălc, R.**, 2021. Middle Eocene (Bartonian) brachiopods from Turnu Roșu (Transylvanian Basin, Romania): oldest record of *Megerlia* and Kraussinidae. *Fragmenta Palaeontologica Hungarica*, 37:49-64
2. Grosu, G., Roba, C.A., **Bălc, R.**, Bizău-Cârstea, M.L., 2020. Assessment of heavy metals content in the proximity of a contaminated site from Cluj-Napoca (Romania). *Studia Ambientum*, 65: 17-38

3. Dorotan, D., **Bălc, R.**, Kalmár, J., 2019. Neotectonically controlled Quaternary sedimentation in the Lăpuş Basin (Maramureş County, Romania) demonstrated by sedimentological and geochemical analysis. *Geo-Eco-Marina*, 25: 203-218
4. Trif, N., Codrea, V., **Bălc, R.**, 2017. Fossil shark teeth from the collections of the Museum of Natural Sciences, Mureş. *MARISIA*, XXXVII: 103-112
5. Ghiorghiu, E., Gligor, D., **Bălc, R.**, 2017. Assessment of physico-chemical parameters of soils in zootechnical farms area from Tichileşti and Tufeşti localities (Brăila County). *Studia Ambientum*, 1/2017: 43-52
6. **Bălc, R.**, Roşian, G., Trif, A., 2017. The landslides characterization based on physical parameters of the soil from Copăceni village (Cluj County, Romania) – causes, effects and technical measures for rehabilitation. *Geographia Napocensis*, X/2: 81-86
7. Lovász, M-E., Dumitraşcu, I., **Bălc, R.**, 2014. Chlorpyrifos-Methyl degradation in soil and human exposure. *International Journal of Scientific Research*, 3/7: 205-208
8. Măcicăşan, V., Roşian G., **Bălc, R.**, Muntean, L., 2013. The process of pedogenesis on mine dumps (a case study: Aghireş mining area, Romania). *Geographia Napocensis*, VII/1: 49-54
9. **Bălc, R.**, Zaharia, L., 2013. Sedimentary deposition of Bozes Formation (Apuseni Mts., Romania) – detrital zircon dating and micropaleontological ages. *Studia UBB Geologia* 58 (2): 29-40
10. **Bălc, R.**, Sylie, L., Zaharia, L., 2012. Calcareous nannofossils and sedimentary facies in the Upper Cretaceous Bozeş Formation (Southern Apuseni Mountains, Romania), *Studia UBB Geologia* 57 (1): 23-32
11. Varga, M. I., **Bălc, R.**, Maloş, C. V., Şamşudean, C., Borbei, F., 2011. Waste dumps rehabilitation measures based on physico-chemical analyses in Zăghid mining area (Sălaj County, Romania). *AES Bioflux*, 3/2: 156-166.
12. Daoud, H., **Bălc, R.**, Hama Sur, G., 2010. Microfossil, diagenesis and biostratigraphy of Balambo Formation from Azmer Mountains in North-Eastern Sulaimaniya (Kurdistan – Iraq). *Iraqi Bulletin of Geology and Mining*, 60/2: 1-16.
13. **Bălc, R.**, Suciu-Krausz, E., Şamşudean, C., Borbei, F., Tanțău, I., 2009. Landslides: study cases. *Studii și cercetări (Bistrita Năsaud)*, Seria Geologie-Geografie, 14: 27-34
14. Pop, D., **Bălc, R.**, Iancu, I., Forray, F., 2009. The „Night of Museums” at the Museum of Mineralogy, Babes-Bolyai University Cluj-Napoca. *Studia UBB Geologia*, 2009, Special Issue, MAEGS – 16: 43-45
15. Cetean, C.G., **Bălc, R.**, Kaminski, M.A., & Filipescu, S., 2008. Biostratigraphy of the Cenomanian-Turonian boundary in the Eastern Carpathians (Dambovita Valley): Preliminary observations. *Studia UBB Geologia*, 53/1: 11-23
16. Tanțău, I., Pendea, I. F., Gray, J., Ghale B., Beldean, C., Bădărău, A.S., Miclea, A., **Bălc, R.**, Toth, A., 2008. Middle Weichselian paleoenvironments in north-western Transylvania: sedimentology, palinology and malacofauna analysis. *Acta Paleontologica Romaniae*, VI: 349-363
17. řtefanovici M., Baciu D., **Bălc, R.**, 2007. Environmental impact of drilling activities. Technology and equipments for environmental evaluation and protect. *Environment & Progress*, 11: 415 – 419.
18. Zaharia L., **Bălc, R.**, 2007. Analytical methods used for identification of asbestos minerals: a short overview. *Environment & Progress*, 11: 516-521.

19. **Bălc, R.** Suciu-Krausz E., Borbei F., 2007: Biostratigraphy of the Cretaceous deposits in the Western Transylvanides from Ampoi Valley (Southern Apuseni Mountains, Romania). *Studia UBB Geologia*, 52 (2): 37- 43.
20. Suciu-Krausz E., **Bălc, R.**, Borbei F., 2006: New data on the Western Transylvanides along Ampoi Valley (Southern Apuseni Mountains, Romania). *Studia UBB Geologia*, 51/1-2: 55-65
21. Săsăran L., **Bălc, R.**, Săsăran E., 2005: Sedimentologic and micropaleontological study of an Upper Cretaceous (Santonian – Campanian) regressive facies development from basin to upper slope sediments (Gilau Mountains, Plescuta Valley, NW – Romania). *Acta Paleontologica Romaniae*, V: 441-450
22. Chira C., **Bălc, R.**, Vulc A-M., 2004: Cretaceous nannofossils from Ceru Băcăinți area, Apuseni Mountains, Romania. *Acta Paleontologica Romaniae*, IV: 89-96
23. **Bălc, R.**, Chira C., 2002: The preliminary study of the Upper Cretaceous calcareous nannofossils from Alba Iulia area, Transylvania. *Studia UBB Geologia*, Special Issue 1: 37-50
24. Chira C., **Bălc, R.**, 2002: Miocene calcareous nannofossils from Dej-Reteag-Ciceu area (Transylvanian Basin, Romania). Biostratigraphical importance and paleogeographical data. *Acta Paleontologica Romaniae*, III: 53-65