

LISTA DE LUCRĂRI ȘTIINȚIFICE:

A. Teza de Doctorat:

2013 – Contribuția toronului la iradierea naturală a populației din România și problemele care apar în măsurarea toronului și radonului.

B. Cărți:

2017 – Bety–Denissa Burghel, Christine Hvitsand, George Ștefan Kudor–Ghițescu, Horia Mitrofan, Claudiu Mircea Moldovan, Lucica Niculae, Alice Popa, Răzvan–Gabriel Popa, Carmen Andreea Roba, Cristina Toma. Environmentaluserguide, Printedby Square Media, ISBN 978–973–0–25714–4, București, 2017.

C. Articole ISI:

1. 2019 – Florică Ș., **Burghel B.D.***, Bican-Brișan N., Begy R., Codrea V., Cucuș A., Catalina T., Dicu T., Dobrei G., Istrate A., Lupulescu A., Moldovan M., Niță D., Papp B., Pap I., Szacsvai K., Țenter A., Sferle T., Sainz C. The pathfromgeologyto indoor radon, EnvironmentalGeochemistryandHealth (Accepted 2019)DOI: 10.1007/s10653-019-00496-z
2. 2019 – Tunyagi A., Dicu T., Cucuș A., **Burghel B.**, Dobrei G., Lupulescu A., Moldovan M., Niță D., Papp B., Zsacsvai K., Țenter A., Beldean–Galea M.S., Anton M., Grecu Ș., Cioloca L., Miloș R., Botoș M.L., Chiorean C.G., Catalina T., Istrate M.A., Sainz C. An innovativesystem for monitoring radon and indoor air quality. Romanian Journal of Physics, (Accepted2019)
3. 2019 – **Burghel B.**, Țenter A., Cucuș A., Dicu T., Moldovan M., Papp B., Szacsvai K., Neda T., Suciș L., Lupulescu A., Maloș C., Florică Ș., Baciu C., Sainz C. The FIRST large-scale mapping of radon concentration in soil gas andwater in Romania. Sci Total Environ. 2019 Feb 22;669:887-892. doi: 10.1016/j.scitotenv.2019.02.342. (factor impact 5,589)
4. 2018 – Dicu T., **Burghel B.D.***, Cucuș A., Mishra R., Sapra B. K., Assessment of annualeffectivedosefromexposureto natural radioactivitysources in a case-control study in Bihor County, Romania, RadiationProtectionDosimetry, ncy211, <https://doi.org/10.1093/rpd/ncy211> Published: 01 December 2018. (factor impact 0,822)
5. 2018 – Megan E. Smith, Oana A., Dumitru, **Bety D. Burghel**, Alexandra Cucuș, Bogdan P. Onac. Radon concentration in three Florida caves: Florida, Jennings, andOcala. CarbonatesandEvaporites, (2019) 34:433–439.<https://doi.org/10.1007/s13146-018-0473-7> . (factor impact 0,947)
6. 2018 – **Burghel B.D.**,Cucos A., Papp B., Stetca F.A., Mirea I., Constantin S., Distribution of radon gas in Romanian show cavesandradiationsafety, RadiationProtectionDosimetry, 2018 Sep 1;181(1):1-5. <https://doi.org/10.1093/rpd/ncy091>. (factor impact 0,917)
7. 2018 – Dicu T., **Burghel B.D.**, Lupulescu D., Cucuș A., The challenge in usingthe retrospective assessment of residential radon concentration. RadiationProtectionDosimetry, Volume 181, Issue 1, September 2018, Pages 20–25, <https://doi.org/10.1093/rpd/ncy095> . (factor impact 0,917)
8. 2017 – **Burghel. B.D.**, Cucuș A., Papp B., Dicu T., Pressyanov D., Dimitrov D., Dimitrova I., Constantin S. Comparative study of Radon andThoronmeasurements in four Romanian show caves. RadiationProtectionDosimetry, Volume 177, Issue 1-2, November 2017, Pages 181–185, <https://doi.org/10.1093/rpd/ncx131>, (factor impact 0,917)
9. 2017 – Moldovan M.C., **Burghel B.D.***, Roba C.A., C. Buterez. The geogenic radon potentialmap of theaspiring ‘Buzău Land’ Geopark. RadiationProtectionDosimetry, Volume 177, Issue 1-2, November 2017, Pages 173–175, <https://doi.org/10.1093/rpd/ncx143> (factor impact 0,917)
10. 2017 – Cucos A., Papp B., Dicu T., Moldovan M., **Burghel B.D.** Moraru I.T., Țenter A., Cosma C. Residential, soilandwater radon surveys in north-western part of Romania. Journal of EnvironmentalRadioactivity, Vol. 166, pp.: 412-416, Part 2, SI. DOI: 10.1016/j.jenvrad.2016.10.003. 2017 (factor impact 2,047).
11. 2016 - Alexandra Cucuș (Dinu), Constantin Cosma, Oana A. Dumitru, **Bety D. Burghel**, Monica I. Călugăr, Bogdan P. Onac. Radon levels in Romanian caves: an occupationalexposuresurvey. EnvironGeochemHealth (2017) 39: 1085. <https://doi.org/10.1007/s10653-016-9878-1> (impact factor 2.994)

12. 2016 – Incze R., Papp B., **Burghеле B.D.**, Cosma C., Gyila S. Follow-up measurements to estimate the exposure to patients in the mofettes from Covasna County (Romania). Romanian Journal of Physics. 2016. Rom. Journ. Phys., Vol. 61, No. 7–8, P. 1320–1329, 2016. (*impact factor 0,924*)
13. 2016 – Bican-Brisan N., Cosma C., Cucos A., **Burghele D.**, Papp B., Constantin S., Moldovan M., Gifu S. Use of CR-39 solid state nuclear track detectors in assessment of the radon exposure in two limestone caves in Romania. Romanian Journal of Physics. 2016. Volume: 61 Issue: 5-6 Pages: 1040-1050 Published: 2016. (*impact factor 0,924*)
14. 2015 - Giagias, V., **Burghele, D.**, Cosma, C. Seasonal variation of indoor radon in dwellings from Athens, Greece. Romanian Journal of Physics. Volume: 60 Issue: 9-10 Pages: 1581-1588 Published: 2015 (*impact factor 0,924*)
15. 2015 - Shahrokhi A., **Burghele B.D.**, Fábíán F., Kovács T.. New study on the correlation between carbon dioxide concentration in the environment and radon monitor devices. Journal of Environmental Radioactivity 150 (2015) 57-61. (*impact factor 2,483*)
16. 2014 - Dicu T., Armencea (Mutoiu) S.E., **Burghele B.**, Cosma C., Retrospective dosimetry of radon gas based on the activity of ^{210}Po in glass objects. Romanian Journal of Physics, Vol. 59, Nos. 9–10, P. 1067–1073, Bucharest, 2014. (*impact factor 0,745*)
17. 2014 - Moldovan M., Benea V., D. Niță C., Papp B., **Burghele B. D.**, Bican-Brișan N., and Cosma C.. Radon and radium concentration in water from north-west of Romania and the estimated dose. Radiation Protection Dosimetry, Jul 2014; doi:10.1093/rpd/ncu230 (*impact factor 0,861*).
18. 2014 - Zdenka Stojanovska, Zora S. Zunic, Peter Bossew, Francesco Bochicchio, Carmela Carpentieri, Gennaro Venoso, Rosaline Mishra, R.P. Rout, B.K. Saprà, **Bety D. Burghele**, A. Cucuș-Dinu, Blazo Boevand C. Cosma. Results from time integrated measurements of indoor radon, thoron and their decay product concentration in schools in the Republic of Macedonia. Radiation Protection Dosimetry (2014) doi: 10.1093/rpd/ncu249. (*impact factor 0,861*)
19. 2013 - Armencea (Mutoiu) E. S., Armencea A., **Burghele B.**, Cucuș (Dinu) A., Maloș C., Dicu T., Indoor Radon Measurements in Bacău County. Romanian Journal of Physics, Vol. 58, Supplement, pp.: S189–S195, 2013. (*impact factor 0,414*)
20. 2013 - **Burghele B.D.**, Cosma C., Intercomparison between radon passive measurements and active measurements and problems related to thoron measurements, Romanian Journal of Physics, Vol. 58, Supplement, pp.: S56-S61, 2013. (*impact factor 0,414*)
21. 2013 - Nita D. C., Moldovan M., Sferle T., Ona V. D., **Burghele B. D.**, Radon Concentrations in Water and Indoor Air in North-West Regions of Romania, Romanian Journal of Physics, Vol. 58, Supplement, pp.: S196–S201, 2013. (*impact factor 0,414*)
22. 2013 - Cosma C., Cucuș A., Papp B., Begy R., Dicu T., Moldovan M., Truță A., Niță D., **Burghele B.**, Suci L. & Sainz C., Radon and remediation measures near Băița-Ștei old uranium mine (Romania). Acta Geophysica, vol. 61, no. 4, Aug. 2013, pp. 859-875. <https://doi.org/10.2478/s11600-013-0110-8>. (*impact factor 0,617*)
23. 2013 - Cosma C., Cucuș A., Papp B., Begy R., Dicu T., Moldovan M., Niță D., **Burghele B.**, Fulea D., Cîdea C., Dumitru O., Maloș C., Suci L. & Sainz C., (2013), Radon measurements and radon remediation in Băița-Ștei uranium mine area, Carpathian Journal of Earth and Environmental Sciences, 8 (2), 2013, 191-199. (*impact factor 1,450*)
24. 2013 - Frunzeti N., Moldovan M., **Burghele B.D.**, Cosma C., Papp B., Popita G.E., Stoian L.C., Flux measurements of ^{222}Rn , CH_4 and CO_2 along with soil gas concentrations (^{222}Rn , CO , NO_2 and SO_2) over a methane reservoir in Transylvania (Romania). Carpathian Journal of Earth and Environmental Sciences, August 2013, Vol. 8, No. 3, p. 75 – 80. (*impact factor 1,450*)
25. 2012 - Cucuș (Dinu) A., Cosma C., Dicu T., Begy R., Moldovan M., Papp B., Niță D., **Burghele B.**, Sainz C. Thorough investigations on indoor radon in Băița radon-prone area (Romania). Science of The Total Environment 01/2012; 431:78-83. (*impact factor 3,258*)
26. 2012 - **Burghele B.D.**, Cosma C., Thoron and radon measurements in Romanian schools, Radiation Protection Dosimetry; Nov 2012, Vol. 152 Issue 1-3, p.:38-41. (*impact factor 0,909*)
27. 2010 - Humelnicu D., Arsene C., **Burghele B.D.**, Bertescu M., Humelnicu I., Sandu I., Mantu D., Olariu R.I., Interaction of Actinide Cations with Heteropolyoxotungstate Ions $[\text{SiW}_{11}\text{O}_{39}]^{8-}$ and $[\text{SiW}_{12}\text{O}_{40}]^{4-}$. REV. CHIM. (Bucharest) Vol. 61, Nr. 9, 2010. (*impact factor 0,538*)
28. 2010 - Jobbágy V., **Bety-Denissa B.**, Solid thoron source preparation in a porous mineral matrix. Radiation Protection Dosimetry (2010) 141(4): 440-443. doi: 10.1093/rpd/ncq244 (*impact factor 0,909*)

D. Articole indexate BDI și studii publicate în volumele unor manifestări științifice internaționale:

1. 2017 – A. Țenter, C. Horju-Deac, A. Cucuș, T. Dicu, B. Papp, **B. Burghеле**, M. Moldovan, K. Szacsvai, C. Sainz, Metodologie pentru măsurătorile de radon din sol, Științăși Inginerie, Editura AGIR, București, ISSN 2067-7138, Vol. 32, pp. 767-772, 2017. (BDI, Index Copernicus)
2. 2017 – C. Horju-Deac, A. Țenter, A. Cucuș, T. Dicu, **B. Burghеле**, K. Szacsvai, C. Sainz, Metodologia de determinare pasivă a concentrațiilor de radon în aerul din interiorul clădirilor, Științăși Inginerie, Editura AGIR, București, ISSN 2067-7138, Vol. 32, pp. 773-782, 2017. (BDI, Index Copernicus)
3. 2017 – Ștefan FLORICĂ, Tiberius DICU, **Bety-Denissa BURGHELE**, Mircea MOLDOVAN, Kinga SZACSVAI, Anca ȚENTER, Botond PAPP, Simion BELDEAN, Andrei ISTRATE, Tiberiu CATALINA, Arthur TUNYAGI, Cristina HORJU-DEAC, Andreea RĂCHIȘAN, Teofana SFERLE, Gabriel DOBREI, Carlos SAINZ, Alexandra CUCUȘ. Indoor radon relatedwiththegeology in Romanian urban agglomerations (Cluj-Napoca). STUDIA UBB AMBIENTUM, LXII, 2, 2017, pp. 29-36. DOI:10.24193/subbambientum.2017.2.03
4. 2016 – Roba C., Cosma C., **Burghele B.**, Moldovan M., Buterez C. Evaluation of water quality from public distributionsystems in theaspiringBuzau Land Geopark, Romania. Water, Resources, Forest, Marin and Ocean EcosystemsConferenceProceedings, Vol I, pp.: 321-328. 2016.
5. 2016 – **Burghele B.D.** Moldovan M., Roba C. Cosma C., Buterez C. Indoor radon doseassessment for Buzău dwellers. V. Terrestrialradioisotopes in environment. International Conference on EnvironmentalProtection. ISBN 978-963-12-5537-9 DOI 10.18428/TREICEP-2016.
6. 2015 – Roba C. A., Rosu C.D., **Burghele B.D.**, Mitrofan H., Moldovan M. C., The quality of the natural mineral watersfrom Buzău County. Aerul si Apa Componente ale Mediului.Presa Universitara ClujeanaISBN 2067-743X, 2015.
7. 2015 - Vogth (Tecșa) V., **Burghele B.**, Cucuș A., Iancu D., Cosma C., Moraru I.T., Giagias E. Preliminaryresultsregardingtherisk of lung cancer causedby radon exposure in Alba-Iulia andsurroundings. Ecoterra, 2015, 12(4):13-18. (BDI)
8. 2013 - **Burghele B.D.**and Moldovan M.C., Intercomparison of radon in soilinstruments at reference site in Czech Republic. Annals of West University of Timisoara - Physics. Volume 57, 2013, Issue 1, Pages 61–66, ISSN (Online) 1224-9718, DOI: 10.1515/awutp-2015-0107 (BDI)
9. 2013 - **Burghele B.D.**, O privire de ansamblu asupra măsurătorilor de toron în România, Tendințeșicerințe de interdisciplinaritate în cercetare, Ed. Politehniun, Iași, pp.: UBB (1-8), 2013.
10. 2012 - Moldovan M., **Burghele B.D.**, Papp B., Niță D.C., Rusu (Dumitru) O., Cucuș A., Cosma C., Sainz C. NeznalMatej, Neznal Martin. Diagnosisandappliedremediationtechniques on radon in Băița-Ștei, România. Ecoterra Journal of EnvironmentalResearchandProtection, no. 33, pp. 90-94, 2012. (BDI)
11. 2012 – Papp, B., Cosma, C., Cucuș, (Dinu), A., Begy, R., Dicu, T., Moldovan, M., Niță, D.,C., **Burghele, B.**, Cîndea, C., Fulea, D., Sainz, C., (2012), ComparisonMeasurement of radon in soil gas at radon referencesites in theCzech Republic (RIM 2010), STUDIA UBB AMBIENTUM, 57 (1-2), p.139-144, (ISSN: 1843-3855).
12. 2012 - **Burghele B.D.**, Moldovan M., Papp B., Niță D.C., Rusu (Dumitru) O., Cucuș A., Cosma C., Sainz C. NeznalMatej, Neznal Martin. Appliedtechniquetodiminish radon concentration in threedwellings of Băița-Ștei, România. Ecoterra Journal of EnvironmentalResearchandProtection, no. 33, pp. 7-12, 2012. (BDI)
13. 2012 - Cosma C., Dumitru O. A., Niță D. C., Begy R., Cucuș A., Iurian A., Moldovan M., Papp B., Dicu T., **Burghele B.**, Suciuc L., Sainz C., 2012 Preliminaryresults of natural radioactivitymeasurements in some building materialsfromuranium mine areaBăița, Romania by gamma spectrometry. Ecoterra- Journal of EnvironmentalResearchandProtection, 2012, No.33, pp.:78-83. (BDI)
14. 2011 - Papp B., Cosma C., Cucuș Dinu A., Begy R., Dicu T., Moldovan M., Niță D.C., **Burghele B.**, Cîndea C., Fulea D., Sainz C., International Intercomparisons of Radon Devicesand Solid State Nuclear Detectors in Czech Republic, Studia UniversitatisBabeș-Bolyai Ambientum. 12/2011; Vol. 56((2)/2011):pp. 56 – 67. (BDI)
15. 2011 - **Burghele B.D.**, Cosma C., Măsurarea simultană a radonului și toronului cu detectori de urme – Situația actuală în lume. Ecoterra Journal of EnvironmentalResearchandProtection. 01/2011; 28:43-48. (BDI)
16. 2011 - **Burghele B.D.**, Papp B., Horvat Z., Cosma C., Preliminary indoor radon andthoronmeasurements in north-western Romania, VI Magyar Radon Forum, Veszprém-Hungary, 2011. pp. 159-162 (ISBN: 978-615-5044-51-9).
17. 2011 - Cucuș (Dinu) A., Cosma C., Dicu T., Papp B., Begy R., Moldovan M., Niță D.C., **Burghele B.**, Cîndea C., Fulea D., Sainz C., Neznal Martin, NeznalMatej. Radon diagnostic measurements in a pilot housefromBaitaRegion, Romania. STUDIA UBB AMBIENTUM, LVI, 1, 2011, pp. 31-41. (BDI)
18. 2010 - Humelnicu D., Olariu R.I., Arsene C., Bertescu M., **Burghele B.D.**, A comparatibestudy on theremoval of uranylionsfromartificialyenriched radioactive watersusingclaysfrom Romania. Analele Științifice ale Universității Al.I. Cuza Iași, Geologie, Tomul LVI, Nr. 1, 2010 (BDI).

