DICU TIBERIUS - LISTA DE LUCRĂRI

A. Lista celor maximum 10 lucrări relevante pentru domeniul de doctorat vizat

1. **Dicu T.**, Botoş M., Cucoş A., et al. (2024) *Evaluating radon concentration and temporal correction factors in residential and workplace buildings: A comparison of passive and active methods*, Heliyon 10(17), e37144, https://doi.org/10.1016/j.heliyon.2024.e37144 (Q1).
2. **Dicu T.**, Cucoş A., Botoş M., Burghele B., Florică Ş., Baciu C., Ştefan B., Bălc R. (2023) *Exploring statistical and machine learning techniques to identify factors influencing indoor radon concentration*, Science of the Total Environment 905, https://doi.org/10.1016/j.scitotenv.2023.167024 (Q1).
3. **Dicu T.**, Virag P., Brie I., Perde-Schrepler M. et al. (2022). *A comparative study of genotoxicity endpoints for women exposed to different levels of indoor radon concentrations*, International Journal of Radiation Biology 98(1), 18 – 29 https://doi.org/10.1080/09553002.2021.1987559 (Q1).
4. **Dicu T.**, Burghele B., Botoş M., Cucoş A., et al. (2021). *A new approach to radon temporal correction factor based on active environmental monitoring devices*, Scientific Reports 11(1), https://www.nature.com/articles/s41598-021-88904-2 (Q1).
5. Beldean-Galea S., **Dicu T.**, Cucoş A., et al. (2020). *Evaluation of indoor air pollutants in 100 retrofit residential buildings from Romania during cold season*, Journal of Cleaner Production 277, https://doi.org/10.1016/j.jclepro.2020.124098 (Q1).
6. Florică Ş., Burghele B., Brişan N., Begy R., Codrea V., Cucoş A., Catalina T., **Dicu T.**, et al. (2020). *The path from geology to indoor radon*, Environmental Geochemistry And Health 42(9), 2655 – 2665, https://doi.org/10.1007/s10653-019-00496-z (Q2).
7. Burghele B., Botoş M., Beldean-Galea S., Cucoş A., Catalina T., **Dicu T.**, et al. (2021) *Comprehensive survey on radon mitigation and indoor air quality in energy efficient buildings from Romania*, Science of the Total Environment 751, https://doi.org/10.1016/j.scitotenv.2020.141858 (Q1).
8. Tuyagi A., **Dicu T.**, Cucoş A., Burghele B., et al. (2020). *An innovative system for monitoring radon and indoor air quality*, Romnian Journal of Physics 65(1-2), 803, https://rjp.nipne.ro/2020_65_1-2/RomJPhys.65.803.pdf (Q3).
9. **Dicu T.**, B D Burghele A Cucoș R Mishra B K Sapra (2018) *Assessment of annual effective dose from exposure to natural radioactivity sources in a case–control study in Bihor County, Romania*, Radiation Protection Dosimetry 30, 185(1), 7-16, https://doi.org/10.1093/rpd/ncy211 (Q3).
10. Cucoş (Dinu) A., Cosma C., **Dicu T.**, Begy R., Moldovan M., Papp B., Niţă D., Burghele B., & Sainz C. (2012). *Thorough investigations on indoor radon in Băiţa radon-prone area (Romania)*, Science of Total Environment, 431, 78 -83, https://doi.org/10.1016/j.scitotenv.2012.05.013 (Q1).

B. Teza de doctorat

Doctor în Fizică (GENOTOXICITATEA RADIAŢIILOR γ ŞI ACŢIUNEA RADIOPROTECTOARE A UNOR COMPUŞI NATURALI); Domeniul de cercetare: Fizică nucleară; Radioprotecţie; Genotoxicitate. Organizaţia: Universitatea "Babeş-Bolyai", Facultatea de Ştiinţa Mediului, Cluj-Napoca.

C. Brevete de invenţie

1. Postescu ID, Filip A, **Dicu T.**, et al. *Gel fotochemoprotector şi procedeu de obţinere*. BREVET DE INVENŢIE NR. 127720/2012.

2. Postescu ID, Filip A, **Dicu T.**, et al. *Cremă fotochemoprotectoare şi procedeu de obţinere*. BREVET DE INVENŢIE NR. 127719/2012.

3. Tunyagi A., Cucoş A., Dicu T., Botoş M., Chiorean C. *Sistem inteligent şi metodă de determinare şi control al concentraţiei de radon din interiorul clădirilor civile*, BREVET DE INVENŢIE NR. 134001, 29.07.2022.

D. Cărţi

1. Cosma C., **Dicu T.**, Begy R., & Dinu A. (2009). *Radonul şi cancerul pulmonar*, Ed. Quantum, 169 pag., ISBN: 978-973-88835-2-9.

E. Articole/studii, publicate în fluxul ştiinţific internaţional principal

1. **Dicu T.**, Botoş M., Cucoş A., et al. (2024) *Evaluating radon concentration and temporal correction factors in residential and workplace buildings: A comparison of passive and active methods*, Heliyon 10(17), e37144, https://doi.org/10.1016/j.heliyon.2024.e37144.

2. Măcicăşan V., Ocrain A., Bălc R., **Dicu T.**, Bodmer MDV., Roba C. (2024) *How can land use management in traditional cultural landscapes become a policy instrument for soil organic carbon sequestration and climate change mitigation? A Transylvanian case study*, Applied Sciences-Basel, 14(21), https://doi.org/10.3390/app14219851.

3. Dobrei G., Moldovan M., **Dicu T.**, Florică Ş. et al. (2024) *Factors influencing radon variability and measurement protocol optimization in Romanian educational buildings using integrated and continuous measurements*, Atmosphere 15(10), http://dx.doi.org/10.3390/atmos15101154.

4. Florică Ş., Lupulescu A., **Dicu T.**, Ţenter A. et al. (2024) *Radon Concentration Assessment in Urban Romanian Buildings: A Multistory Analysis*, Atmosphere 15, 1267, https://doi.org/10.3390/atmos15111267.

5. **Dicu T.**, Cucoş A., Botoş M., Burghele B., Florică Ş., Baciu C., Ştefan B., Bălc R. (2023) *Exploring statistical and machine learning techniques to identify factors*

influencing indoor radon concentration, Science of the Total Environment 905, https://doi.org/10.1016/j.scitotenv.2023.167024.

6. **Lupulescu A.**, Baciu C., Dicu T., Burghele B., Cucoş A. (2023) *Determining the Geogenic Radon Potential in Different Layouts and Numbers of Points*, Atmosphere 14 (4), 1 – 11, https://doi.org/10.3390/atmos14040713.
7. Mareş I., Catalina T., Istrate A., Cucoş A., **Dicu T.** et al. (2021) *Research on Best Solution for Improving Indoor Air Quality and Reducing Energy Consumption in a High-Risk Radon Dwelling from Romania*, International Journal of Environmental Research and Public Health 18(23), https://doi.org/10.3390/ijerph182312482.
8. **Dicu T.**, Virag P., Brie I., Perde-Schrepler M. et al. (2022) *A comparative study of genotoxicity endpoints for women exposed to different levels of indoor radon concentrations*, International Journal of Radiation Biology 98(1), 18 – 29, https://doi.org/10.1080/09553002.2021.1987559.
9. Cucoş A., Moldovan M., Burghele B., **Dicu T.**, Moldovan O. (2021) *Radiological Risk Assessment for Karstic Springs Used as Drinking Water in Rural Romania*, Atmosphere 12(9), https://doi.org/10.3390/atmos12091207.
10. **Dicu T.**, Burghele B., Botoş M., Cucoş A., et al. (2021) *A new approach to radon temporal correction factor based on active environmental monitoring devices*, Scientific Reports 11(1), https://www.nature.com/articles/s41598-021-88904-2.
11. Burghele B., Botoş M., Beldean-Galea S., Cucoş A., Catalina T., **Dicu T.**, et al. (2021) *Comprehensive survey on radon mitigation and indoor air quality in energy efficient buildings from Romania*, Science of the Total Environment 751, https://doi.org/10.1016/j.scitotenv.2020.141858.
12. Beldean-Galea S., **Dicu T.**, Cucoş A., et al. (2020) *Evaluation of indoor air pollutants in 100 retrofit residential buildings from Romania during cold season*, Journal of Cleaner Production 277, https://doi.org/10.1016/j.jclepro.2020.124098.
13. Sferle T., Dobrei G., **Dicu T.**, Burghele B., Brişan N., et al. (2020) *Variation of indoor radon concentration within a residential complex*, Radiation Protection Dosimetry 189(3), 279 – 285, https://doi.org/10.1093/rpd/ncaa040.
14. Florică Ş., Burghele B., Brişan N., Begy R., Codrea V., Cucoş A., Catalina T., **Dicu T.**, et al. (2020) *The path from geology to indoor radon*, Environmental Geochemistry And Health 42(9), 2655 – 2665, https://doi.org/10.1007/s10653-019-00496-z.
15. Celaya S., Encian I., Fuente I., Rabago D., Moldovan M., **Dicu T.**, et al. (2020) *Methodological approaches to radon in water measurements: comparative experiences between Romania and Spain*, Romnian Journal of Physics 65(1-2), 804, https://rjp.nipne.ro/2020_65_1-2/RomJPhys.65.804.pdf.
16. Tuyagi A., **Dicu T.**, Cucoş A., Burghele B., et al. (2020) *An innovative system for monitoring radon and indoor air quality*, Romnian Journal of Physics 65(1-2), 803, https://rjp.nipne.ro/2020_65_1-2/RomJPhys.65.803.pdf.

17. **Dicu T.**, B D Burghele A Cucoș R Mishra B K Sapra (2018) *Assessment of annual effective dose from exposure to natural radioactivity sources in a case–control study in Bihor County, Romania*, Radiation Protection Dosimetry 30, 185(1), 7-16, https://doi.org/10.1093/rpd/ncy211.

18. Burghele B., Ţenter A., Cucoş A., **Dicu T.**, Moldovan M., Papp B., et al. (2019) *The FIRST large-scale mapping of radon concentration in soil gas and water in Romania*, Science of the Total Environment 669, 887 – 892, https://doi.org/10.1016/j.scitotenv.2019.02.342.

19. Catalina T., Istrate M., Damian A., Vartires A., **Dicu T.**, Cucoş A., (2019) *Indoor air quality assessment in a classroom using a heat recovery ventilation unit*, Romanian Journal of Physics 64 (9-10), 819, https://rjp.nipne.ro/2019_64_9-10/RomJPhys.64.819.pdf.

20. **Dicu T.**, Burghele B., Lupulescu D., Cucoş A., (2018) *The challenge in using the retrospective assessment of residential radon concentration*, Radiation Protection Dosimetry 181, 20 – 25, https://doi.org/10.1093/rpd/ncy095.

21. Burghele B., Cucoş A., Papp B., Dicu T., Pressyanov D., Dimitrov D., Dimitrova I., Constantin S., (2017) *Comparative study of radon and thoron measurements in four romanian show caves*, Radiation Protection Dosimetry 177 (1-2), 181 – 185, http://dx.doi.org/10.1093/rpd/ncx131.

22. Dolha M., Timar-Gabor A., **Dicu T.**, Cosma C. (2017) *Measurements of terrestrial gamma dose rates and radon concentrations from indoor air and water in Transylvania region*, Romanian Reports in Physics 69, 1 – 6, https://rrp.nipne.ro/2017/AN701.pdf.

23. Cucoş A., Papp B., **Dicu T.**, Moldovan M., Burghele B., Moraru I., Tenţer A., Cosma C., (2016) *Residential, soil and water surveys in north-western part of Romania*, Journal of Environmental Radioactivity 166, 412 – 416, https://doi.org/10.1016/j.jenvrad.2016.10.003.

24. Istrate M-A., Catalina T., Cucoş A., **Dicu T.** (2016). *Experimental measurements of VOC and Radon in two Romanian classrooms*, Energy Procedia 85, 288 – 294, https://doi.org/10.1016/j.egypro.2015.12.254.

25. Cucoş Dinu A., **Dicu T.**, Cosma C. (2015). *Indoor radon exposure in energy-efficient houses from Romania*, Romanian Journal of Physics 60 (9-10), 1574 – 1580, https://rjp.nipne.ro/2015_60_9-10/RomJPhys.60.p1574.pdf.

26. Lazăr A. L., Baciu C., Roba C., Rogozan C., **Dicu T.**, et al. (2014). *Impact of the past mining activity in Roşia Montană (Romania) on soil and vegetation*. Environmental Earth Sciences 72 (11), 4653- 4666, http://dx.doi.org/10.1007/s12665-014-3361-z.

27. Dolha M., Gabor-Timar A., **Dicu T.**, Begy R., Anton M., Cosma C. (2014). *A high-resolution map of gamma dose rates in Cluj county, Romania using LiF:Mg,Cu,P detectors*, Radiation Protection Dosimetry 162 (1-2), 14 – 19, http://dx.doi.org/10.1093/rpd/ncu209.

28. Moldovan M., Niţă D., Cucoş (Dinu) A., **Dicu T.**, Brişan N., Cosma C. (2014). *Radon concentration in drinking water and supplementary exposure in Băiţa-Ştei mining area, Bihor County (Romania)*. Radiation Protection Dosimetry 158(4), 447-452, https://doi.org/10.1093/rpd/nct258.

29. **Dicu T.**, Armencea E., Burghele B. Cosma C. (2014). *Retrospective dosimetry of radon gas based on the activity of ^{210}Po in glass objects*, Romanian Journal of Physics 59 (9-10), 1067-1073, https://rjp.nipne.ro/2014_59_9-10/RomJPhys.59.p1067.pdf.

30. Muntean L. E., Cosma C., Cucoş A., **Dicu T.**, Moldovan D. V. (2014). *Assessment of Annual and seasonal variation of indoor radon levels in dwelling houses from Alba County*, Romania. Romanian Journal of Physics 59(1-2), 163 – 171, https://rjp.nipne.ro/2014_59_1-2/RomJPhys.59.p163.pdf.

31. Cosma C., Cucoş A., Papp B., Begy R., **Dicu T.**, Moldovan M., Truţă A., Niţă D., Burghele B., Suciu L. & Sainz C. (2013). *Radon and remediation measures near Băiţa-Ştei old uranium mine (Romania)*. Acta Geophysica 61(4), 859-875, http://dx.doi.org/10.2478/s11600-013-0110-8.

32. Cosma C., Cucoş D., & **Dicu T.** (2013). *Preliminary results regarding the first map of residential radon in some regions in Romania*. Radiation Protection Dosimetry 155(3), 343-350, https://doi.org/10.1093/rpd/nct015.

33. Todea D., Cosma C., **Dicu T.**, Roşca L., Cucoş (Dinu) A., Rişteiu M., Iancu D., Papuc I., Rădulescu D. (2013). *Lung cancer risk induced by residential radon in Cluj and Alba Counties, Romania*. Environmental Engineering and Management Journal 12(6), 1281-1285, http://www.eemj.icpm.tuiasi.ro/pdfs/vol12/no6/22_353_Todea_13.pdf.

34. Cosma C., Cucoş A., Papp B., Begy R., **Dicu T.**, Moldovan M., Niţă D., Burghele B., Fulea D., Cîndea C., Dumitru O., Maloş C., Suciu L. & Sainz C. (2013). *Radon measurements and radon remediation in Băiţa-Ştei uranium mine area*. Carpathian Journal of Earth and Environmental Sciences 8(2), 191-199, https://www.cjees.ro/viewTopic.php?topicId=334.

35. Papp B., Cucoş A., Moldovan M., Begy R., **Dicu T.**, Niţă D., Sainz C. & Cosma C. (2013). *International intercomparison exercise on natural radiation measurements under field conditions (IFC11)*. Romanian Journal of Physics 58, S210-S220, https://rjp.nipne.ro/2013_58_Suppl/0210_0220.pdf.

36. Armencea E., Armencea A., Burghele B., Cucoş A., Maloş C. & **Dicu T.** (2013). *Indoor radon measurements in Bacău County*. Romanian Journal of Physics 58, S189-S195, https://rjp.nipne.ro/2013_58_Suppl/0189_0195.pdf.

37. Dicu D., Pop F., Ionescu D., & **Dicu T.** (2013). *Comparison of risk scoring systems in predicting clinical outcome at upper gastrointestinal bleeding patients in an Emergency Unit*. American Journal of Emergency Medicine 31(1), 94-99, https://doi.org/10.1016/j.ajem.2012.06.009.

38. Cucoş (Dinu), A., Cosma, C., **Dicu, T.**, Begy, R., Moldovan, M., Papp, B., Niţă, D., Burghele, B., & Sainz, C. (2012). *Thorough investigations on indoor radon in Băiţa*

radon-prone area (Romania). Science of Total Environment 431, 78 – 83, https://doi.org/10.1016/j.scitotenv.2012.05.013.

39. Truţa A., Dinu A., **Dicu T.**, Szacsvai K., Cosma C., & Hofmann W. (2010). *Preliminary Lung Cancer Risk Assessment of Exposure To Radon Progeny for Transylvania, Romania*. Health Physics 99(3), 301-307, https://doi.org/10.1097/hp.0b013e3181c03cde.
40. Tomuleasa C., Soritau O., Brie I., Pall E., Foris V., **Dicu T.** (2010). *Mesenchymal stem cell irradiation in culture engages differential effect of hyper-fractionated radiotherapy for head and neck cancers*. J BUON 15(2), 348-356, https://jbuon.com/archive/15-2-348.pdf.
41. **Dicu T.**, Postescu I. D., Tatomir C., Tamas M., Dinu A., & Cosma C. (2010). *A novel method to calculate the antioxidant parameters of the redox reaction between polyphenolic compounds and the stable DPPH radical*. Italian Journal of Food Science 22(3), 333-339.
42. Oltean D., **Dicu T.**, & Eniu D. (2009). *Brain metastases secondary to breast cancer: symptoms, prognosis and evolution*. Tumori 95, 607-701, https://doi.org/10.1177/030089160909500610.
43. Sainz C., Dinu A., **Dicu T.**, Szacsvai K., Cosma C., Quindós Poncela L. S., 2009, *Comparative risk assessment of residential radon exposures in two radon - prone areas, Stei (Romania) and Torrelodones (Spain)*, Science of Total Environment 407(15), 4452-4460, https://doi.org/10.1016/j.scitotenv.2009.04.033.
44. Moldovan M., Cosma C., Encian I., **Dicu T.**, 2009, *Radium-226 concentration in Romanian bottled mineral waters*, Journal of Radioanalytical and Nuclear Chemistry 279, 487-491, http://dx.doi.org/10.1007/s10967-007-7326-0.
45. Cosma C., Szacsvai K., Dinu A., Ciorbă D., **Dicu T.**, Suciu L., 2009, *Preliminary integrated indoor radon measurements in Transylvania (Romania)*, Isotopes in Environmental and Health Studies 45, 259-268, https://doi.org/10.1080/10256010902871895.
46. Cosma C., Moldovan M., **Dicu T.**, Kovacs T., 2008, *Radon in water from Transylvania (Romania)*, Radiation Measurement 43, 1423-1428, https://doi.org/10.1016/j.radmeas.2008.05.001.
47. **Dicu T.**, Brie I., Virag P., Fischer E., Perde M., Foriş V., Cernea V., Cosma C., 2008, *Genotoxic effects of ^{60}Co γ-rays on Chinese Hamster Ovary (CHO) cells*, Nukleonika 53, 161-165, http://web.ichtj.waw.pl/www/back/full/vol53_2008/v53n4p161f.pdf.