Списък с публикации на проф. дфзн Добромир Пресиянов

за последните 5 години (след 2019 г. вкл.)

Публикации от група А (самостоятелни или с относително неголям брой автори)

I. Публикации в индексирани (IF/SJR) международни издания

1. **Pressyanov D., Dimitrov D.** (2024) The sensitivity of innovative techniques for measuring low levels of radon in the environment using passive detectors. ***J. Envir. Radioact.*** 277, 107461.

2. **Pressyanov D., Momchilov M., Georgiev P.** (2023) Influence of humidity on activated carbon fabrics scheduled for use in high sensitivity radon detectors. ***Applied Radiation and Isotopes*** 200, 110941.

3. **Pressyanov D.** (2022) New generation of highly sensitive radon detectors based on activated carbon with compensated temperature dependence. ***Scientific Reports*** 12, 8479.

4. **Pressyanov D., Dimitrov D., Georgiev P.** (2022) A sensitive DVD-based radon and thoron detector for environmental monitoring. ***Measurement*** 203, 112026.

5. **Pressyanov D.**, **Stavrev P.** (2021). A Method for Identification and Assessment of Radioxenon Plumes by Absorption in Polycarbonates. ***Sensors*** 21, 8107.

6. **Pressyanov D.**, **Dimitrov D.** (2020). The problem with temperature dependence of radon diffusion chambers with anti-thoron barrier. ***Rom. J. Phys.*** 65, 801.

7. **Pressyanov D., Dimitrova I., Mitev K., Georgiev S., Dimitrov D.** (2019). Identifying radon priority areas and dwellings with radon exceedances in Bulgaria using stored CD/DVDs. ***J. Envir. Radioact***. 196, 274.

8. **Pressyanov D.**, **Quindos Poncela L., Georgiev S., Dimitrova I., Mitev K., Sainz C., Fuente I., Rabago D.** (2019). Testing and Calibration of CDs as Radon Detectors at Highly Variable Radon Concentrations and Temperatures. ***Int. J. Envir. Res. Publ. Health***, 16, 3038.

9. **Georgiev S., Dimitrova I., Pressyanov D., Sabot B., Michielsen N., Bondiguel S., Mitev K.** (2024) Studies on the retrospective thoron measurements by CDs/DVDs: A posteriori calibration and influence of environmental factors. ***Radiation Measurements*** 175, 107147.

10. **Penev, D., Stavrev, P., Stavreva, N., Pressyanov, D.** (2023) Influence of dose uncertainty on TCP estimates: a model study. ***Eur. Phys. J. Spec. Top.*** 232, 1543–1547.

11. ***Stavrev P., Stavreva N., Ruggieri R., Nahum A. E., Pressyanov D.*** (2022) Analysis of tumour dose–response data from animal experiments via two TCP models accounting for tumor hypoxia and resensitization. ***Physical and Engineering Sciences in Medicine*** https://doi.org/10.1007/s13246-022-01173-9.

12. **Naccarato S.,… D. Pressyanov,…. R. Ruggieri** (19 authors). (2022) Automated Planning for Prostate Stereotactic Body Radiation Therapy on the 1.5 T MR-Linac. ***Advances in Radiation Oncology*** 7, 100865.

13. **Stavrev P., Stavreva N., Genova B., Ruggieri R., Alongi F., Nahum A., Pressyanov D.** (2021) The Impact of Different Timing Schedules on Prostate HDR-Mono-Brachytherapy. A TCP Modeling Investigation. ***Cancers*** 13, 4899.

14. **Stavrev P., Stavreva N., Ruggieri R., Nahum A., Tsonev P., Penev D., Pressyanov D.** (2021) Theoretical investigation of the impact of different timing schemes in hypofractionated radiotherapy. ***Medical Physics*** 48, 4085.

15. **Ruggieri R., Rigo M., Naccarato S., Gurrera D., ..., Stavreva N., Pressyanov D., Stavrev P., Pellegrini R., Alongi F.** (15 authors) (2020). Adaptive SBRT by 1.5 T MR-linac for prostate cancer: On the accuracy of dose delivery in view of the prolonged session time. ***Physica Medica***, 80, 34-41.

16. **Mitev K., Cassette P., Pressyanov D., Georgiev S., Dutsov Ch., Michielsen N., Sabot B.** (2020) Methods for the experimental study of ^{220}Rn homogeneity in calibration chambers. ***Applied Radiation and Isoropes***, 165, 109259.

17. **Stavreva N., Stavrev P., Balabanova A., Nahum A., Ruggieri R., Pressyanov D.** (2019) Modelling the effect of spread in radiosensitivity parameters and repopulation rate on the probability of tumour control. ***Phys. Med.*** 63, 79-86.

18. **Mitev K., Dutsov Ch., Georgiev S., Boshkova T., Pressyanov D.** (2019) Unperturbed, high spatial resolution measurement of Radon-222 in soil-gas depth profile. ***J. Envir. Radioact.*** 196, 253-258.

V. Неиндексирани списания

19. Pressyanov D. (2022). Inertia in the response of radon monitors introduced by diffusion anti-thoron barriers. ***J. Eur. Radon Assoc***. 3, 7574.

VI. Сборници в пълен текст

20. Pressyanov D. (2019). Highly sensitive passive detectors for short-term pre- and post-mitigation measurements. Proc. 33rd Annual International Radon Symposium: Denver, Colorado, September 2019.

VII. Патенти за изобретения и полезни модели

21. Пресиянов Д. Компенсаторен модул за сензори за измерване на радиоактивни благородни газове. ***Патент за изобретение*** BG 67484 (приоритет 19.08.2020 г., публикуван 2022 г).

22. Пресиянов Д. Компенсаторен модул за сензори за измерване на радиоактивни благородни газове. ***Патент за изобретение*** BG 67405 (приоритет 19.03.2019 г., публикуван 2021 г).

22'. **D. Pressyanov**, Compensating module for sensors for measurement of radioactive noble gases. World Intellectual Property Organization WO2020/186316 A1 (2021).

Публикации от група В (публикации на международни организации, подготвени от големи колективи (около 100 участника), в които кандидатът е посочен сред съставителите на документа)

23. European Atlas of Natural Radiation (2020). EC-JRC, Eds.: Cinelli, G., De Cort M., Tollefsen T. (D. Pressyanov contribution: writing the summary of Chapter 4).