**MAPPING INDOOR RADON CONCENTRATION IN GROUND-FLOOR ROOMS OF DWELLINGS IN ALBANIA**

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**Abstract**

This study presents the outcomes of indoor radon measurements obtained in three survey campaigns, gathering approximately 450 measurements performed in dwellings, public buildings, and workplaces. The initial phase of the research concentrated on refining the database, in which only 220 measurements taken on the ground floors of dwellings were considered. Data gathered from Albania's largest cities in twelve administrative regions indicated that around 30% of indoor radon levels were above 100 Bq/m³, with only 4% exceeding the reference level of 300 Bq/m³. Utilizing a 10 x 10 km grid, the data distribution covers roughly 20% of the area, based on a threshold criterion of cell selection that contains over 1,000 residents. This map was used to evaluate the exposure of the population to indoor radon in Albania. Additionally, the findings highlight the necessity for future surveys to encompass the entire area of Albania.

**Keywords:** Radon map, indoor radon, dwellings, annual dose rate, natural radioactivity