





an Open Access Journal by MDPI

Building Materials: Assessment of the Radon Exhalation and the Radiological Risk Due to Natural Radioactivity Content

Guest Editors:

Dr. Francesco Caridi

Dr. Stefania Da Pelo

Dr. Giuliana Faggio

Dr. Michele Guida

Dr. Silvestro Antonio Ruffolo

Deadline for manuscript submissions:

31 December 2024

Message from the Guest Editors

Radon is a naturally occurring radioactive gas whom longterm exposure to can increase the risk of developing lung cancer. This concern has been considered in detail by the European Union (EU) in the Directive 2013/59 EURATOM, which highlights the importance of investigating all potential sources of indoor radon, including building materials. To assess the possible radiological health risk posed by radon, it is essential to calculate external hazard indexes based on the natural radioactivity content, according to the European recommendations Furthermore, the geological characteristics of building materials, such as their origin, textural and compositional analyses, porosity, geochemistry, permeability, crystalline abundance, and degradation attitude, must be considered, as these properties are fundamental in correlating with radon exhalation rates

Topics of interest include (but are not restricted to):

- building materials;
- radon exhalation;
- environmental radioactivity;
- radiation protection from healthcare to environment and scientific research.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola CerulloDipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us