

## Special Issue

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

### Message from the Guest Editors

Radon is a naturally occurring radioactive gas whom long-term 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.

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### Guest Editors

Dr. Francesco Caridi

Dr. Stefania Da Pelo

Dr. Giuliana Faggio

Dr. Michele Guida

Dr. Silvestro Antonio Ruffolo

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### Deadline for manuscript submissions

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*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

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### Editor-in-Chief

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

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