

Special Issue

Functional Materials for Building and Pavement Coatings

Message from the Guest Editors

The use of coatings is one of the most prominent techniques to improve the durability and performance of pavements and buildings. Appropriate design and implementation of coating techniques will limit thermal or icing effects and prevent the entering of chemicals and moisture into the structures, hence extending their life. In addition, surface coating is considered to be an effective method of repairing and maintaining pavement and building surfaces. In the last few decades, new coating materials and technologies have been developed and applied to construction to facilitate different purposes. This Special Issue aims to provide a broad overview and discussion of coating materials and technologies for buildings and pavements. The topic of interest of this Special Issue includes (but is not limited to):

- Building and pavement coating materials and treatments
- Coating for heat reflection, anti-icing, anti-skid, water impermeability
- Environmental performances of coating
- Smart energy coating
- Characterization of surface coating properties
- Review and assessment of building and pavement coating
- Innovative surface design and practice
- Coating and surface testing

Guest Editors

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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