

Surface Characterization and Treatments in Transportation Infrastructure

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submissions:

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Message from the Guest Editors

Dear Colleagues,

The strength, durability, toughness, and surface friction are the key performance of transportation infrastructure and have also benefited significantly from the surface characterization, modifications, and treatments for both construction materials and structure members. The purpose of this Special Issue is thus to collect the latest research and achievements and discuss progresses in surface characterization and treatments in building and maintenance of strong, safe, and sustainable transportation infrastructures.

This scope of this Special Issue will serve as a forum for papers in the following concepts:

- Knowledge and new ideas in multiscale surface characterization of materials in transportation infrastructure
- Recent developments in surface modifications and coatings of solid waste
- Theoretical and experimental research on the silica sealing coats of cement concrete
- Design and evaluation of various asphalt and cement concrete pavement surface treatments
- Evaluation of interfaces in the materials for transportation infrastructure
- Testing and modeling of surface texture and friction performance of transportation infrastructure



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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