

Special Issue

Surface Characterization and Treatments in Transportation Infrastructure

Message from the Guest Editors

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

Guest Editors

Prof. Dr. Qiao Dong

Dr. Changjun Zhou

Dr. Weimin Song

Dr. Shi Dong

Prof. Dr. Xueqin Chen

Deadline for manuscript submissions

closed (31 December 2022)



Coatings

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Impact Factor 2.8
CiteScore 5.4



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Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

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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.

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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