



Surface Engineering and Mechanical Properties of Building Materials

Guest Editors:

Dr. Jiwang Jiang

Dr. Hao Jin

Dr. Xing Cai

Dr. Hui Li

Dr. Li Ai

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Message from the Guest Editors

Dear Colleagues,

Building materials, including organic asphaltic materials and inorganic cementitious materials, have long been used in various transportation infrastructures such as pavement, bridges, and railways. Under the coupling effects of complex environment and traffic, the mechanics and fracture mechanical properties of building materials are fundamental to the durability of infrastructures.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- New fracture testing findings or methods;
- Multiscale characterization of building materials;
- Descriptive or virtual modeling of building materials or structures;
- Mechanical performance analysis based on data science;
- Anti-cracking practices on building materials or structures;
- Monitoring and diagnosis of building material failure;
- Advanced fracture mechanics model of building materials or structures;
- Life cycle analysis of durable and sustainable building materials.

We look forward to receiving your contributions.





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

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.

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Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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