

## Special Issue

# Advanced Functional Cement-Based Materials for Smart Applications

### Message from the Guest Editors

This Special Issue focuses on recent advances in terms of material designs, concepts, mechanisms, and practices related to advanced functional cement-based materials, solving challenges in scientific innovation and applications. Original research and reviews are welcome on, but not limited to, the following topics:

- Intelligent design and advanced manufacturing techniques;
- Conductive cement-based materials for multifunctional applications;
- Microencapsulation of phase-change materials and applications in heat-stored cement-based materials;
- Fiber coating technology in cement-based materials;
- Nano-modified cement-based materials;
- Numerical simulation and model optimization;
- Surface treatment of cementitious composites;
- Functional coatings in cement-based composites.

We look forward to receiving your contributions.

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### Guest Editors

Dr. Yushi Liu

Dr. Kunyang Yu

Dr. Zilong Wang

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### Deadline for manuscript submissions

31 October 2025



## Coatings

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

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### 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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