

Special Issue

Next-Generation Protective Coatings: Innovative Smart Materials and Sustainable Strategies for Corrosion Mitigation

Message from the Guest Editors

This Special Issue will present the latest designs and developments in smart anti-corrosion coatings through original research papers and review articles from leading scientists and engineers from across the world. In particular, the topics of interest include, but are not limited to, the following:

- Current research in the area of smart materials and coatings;
- Concepts of the mechanism of action of smart coatings;
- New potential materials for applications in smart anti-corrosion coatings;
- Fabrication science of smart anti-corrosion protective coatings using various technologies;
- Behavior of smart coatings in various corrosive environments;
- The action of activators that enable the coating to respond to its environment;
- Repair mechanisms, including how the repair agent is retained in the coating and released;
- Future directions in research and development of smart anti-corrosion coatings.

Guest Editors

Dr. Aleksander Iwaniak

Dr. Piotr Nikończuk

Dr. Wojciech Moćko

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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 Editor-in-Chief

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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