

Anticorrosion Protection of Nonmetallic and Metallic Coatings

Guest Editors:

Dr. Tadeja Kosec

Laboratory for metals, corrosion and anticorrosion protection, Slovenian National Building and Civil Engineering Institute, Dimičeva 12, SI-1000 Ljubljana, Slovenia

Dr. Aleksandra Kocijan

Laboratory of Analytical Chemistry and Corrosion, Physics and Chemistry of Materials, Institute of Metals and Technology, Lepi pot 11, SI-1000 Ljubljana, Slovenia

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Message from the Guest Editors

The scope of this Special Issue “Anticorrosion Protection of Nonmetallic and Metallic Coatings” is the research on anticorrosion coatings of nonmetallic and metallic origin. The present Special Issue focuses on the improved anticorrosion properties of metallic, nonmetallic, and composite coatings using different engineering approaches to increase their durability in various demanding applications. It is highly recommended to present your research using novel approaches of defining anticorrosion properties through electrochemical, spectroscopic techniques and other techniques in your research on nonmetallic and metallic coatings. Submitted papers are expected to follow different aspects of processes, including physical and chemical vapor deposition, atomic layer deposition, thermal and plasma spraying, directed energy techniques, wet chemical and electrochemical processes, and techniques based on nanotechnology. The papers should provide comprehensive insight on corrosion resistance, mechanical properties, and surface and interface characterisation, with emphasis on enhanced functional performance for different applications.



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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