

Materials with and without Coating-New Perspectives

Guest Editors:

Prof. Dr. Lucien Reclaru

Scientific Independent
Consultant Biomaterials and
Medical Devices, 103 Paul-Vouga,
2074 Marin-Neuchâtel,
Switzerland

**Prof. Dr. Lavinia Cosmina
Ardelean**

Department of Technology of
Materials and Devices in Dental
Medicine, “Victor Babes”
University of Medicine and
Pharmacy, Timisoara, Romania

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Message from the Guest Editors

Dear Colleagues,

Corrosion, generally defined as a degradation of a material or its properties, by chemical reaction with the environment, currently affects all areas of the economy, from the integrated circuits to the reinforced concrete bridges, concerning a wide spectrum of industries. Today, the concept of corrosion has evolved in the broad sense of the word, being not limited to metals, but affecting polymers and ceramics as well. The corrosion resistance can be considered a vital property for biomaterial components and it is associated with the problem of metallic ion release, potentially harmful for the organism. Therefore, reconsidering the toxicology assessment of devices in all types of environments (body, home) has become necessary.

In this Special Issue, we welcome original research papers and reviews focused on the complex relationships between the material, its environment, and corrosion behavior of metallic/nonmetallic materials as well as possibilities for increasing the corrosion resistance by means of surface modification and application of protective coatings.

Prof. Dr. Lucien Reclaru

Prof. Dr. Lavinia Cosmina Ardelean

Guest Editors



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Special Issue

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 called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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