Special Issue

Biointerface Coatings for Biomaterials and Biomedical Applications

Message from the Guest Editors

In addition to meeting the minimal requirement of biocompatibility, advanced biomaterials have acquired functions, allowing them to directly or indirectly influence specific biological environments. These modifications of biomaterials are generally achieved by establishing an interface layer, i.e., a biointerface coating, to deliver the desired functions. Many promising approaches have been realized by existing surface modification technologies based on both physical and chemical methods of rendering fabricated coatings on biomaterials, from basic self-assembly of molecules to top–down construction of bulk materials. This Research Topic including but not limited to the following: (1) Molecularly self-assembled coatings;
(2) Surface modifications of coatings;
(3) Layer-by-layer coatings;
(4) Grafted coatings;
(5) Physically adsorbed coatings;
(6) Vapor-deposited coatings
(7) Coatings with chemical activity and/or physical properties;
(8) Innovations of novel coatings for biotechnological applications.

Guest Editors

Prof. Dr. Hsien-Yeh Chen
Department of Chemical Engineering, National Taiwan University, Taipei 10617, Taiwan

Prof. Dr. Peng-Yuan Wang
Institute of Biomedicine and Technology, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences,Shenzhen 518055, China

Deadline for manuscript submissions

closed (15 November 2020)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/28247

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

mdpi.com/journal/coatings

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/journal/coatings

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.

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

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)

MDPI