

Special Issue

Nanofabricated Surfaces for Biomedical Applications

Message from the Guest Editor

A man-made nanostructures on a surface can be nanofabricated via top-down, bottom-up, combination, or template-assisted route, which can bring novel physical and/or chemical properties for the coating. For example, a noble-metal-coated substrate with a particular nanostructured surface can be integrated into a measurement system, e.g., as a biosensor component for highly-sensitive detection under a trace amount of target molecule, or for highly selective distinction among target molecules in a complex solution. In particular, for recent years, nanofabricated coatings with surface-enhanced Raman scattering properties have created a great deal of potential for the detection of Raman-active species, ranging from single molecules to biomolecules or bio-organism. For this Special Issue, a nanostructured coating produced through a top-down, bottom-up, combination, or template-assisted route is the main topic. A bottom-up method using, e.g., nanoparticles (NPs) or graphene techniques, is also of interest. In addition, the as-prepared coatings are preferably directed to biomedical applications.

Guest Editor

Prof. Dr. Jiunn-Der Liao

Department of Materials Science and Engineering, National Cheng Kung University, Tainan, Taiwan

Deadline for manuscript submissions

closed (31 May 2020)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/18622

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

[mdpi.com/journal/
coatings](https://mdpi.com/journal/coatings)





Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



[mdpi.com/journal/
coatings](https://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), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

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