

Special Issue

Advances in Surface Engineering and Biocompatible Coatings for Biomedical Applications

Message from the Guest Editors

The surface properties of biomaterials play a significant role in biomaterial performance. Surface engineering via bulk materials' surface property modification and applying biocompatible coatings to bulk materials has demonstrated substantial synergistic improvements in the performance and service life of biomaterials via the alteration of their surface properties. The present Special Issue aims to highlight the recent advances in surface engineering and biocompatible coatings for biomedical applications. Research areas may include the following:

- Mechanical and physical surface treatment, including grit blasting, polishing, shot peening, surface mechanical attrition treatment, laser peening, sputtering, laser/electron beam patterning, and plasma electrolyte oxidation.
- Chemical and electrochemical surface treatment, including etching, anodizing, electrophoretic deposition, and chemical vapor deposition.
- Biocompatible coatings, including hydroxyapatite-based, bioactive glass-based, and polymer-based coatings.

We look forward to receiving your contributions.

Guest Editors

Dr. Egemen Avcu

Dr. Mert Guney

Dr. Yasemin Yildiran Avcu

Deadline for manuscript submissions

closed (10 May 2024)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/140798

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), Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

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