

Special Issue

Biomimetic Approaches in Coatings Synthesis

Message from the Guest Editors

In order to respond to the increasing demands of medical-targeted applications, the development of new products is required and implies the attainment of new functionalized materials and permanent optimization of coating systems. This Special Issue aims to cover the recent experimental and theoretical developments in the field of biomimetic coatings and films, with focus on their preparation, characterization, applications, and industrialization.

Potential topics include, but are not limited to:

Medical thin film morphology, structure, and other properties induced by the applied deposition method.

Deposition/growth and characterization of nanocomposite or multicomponent thin films for medical coatings.

Nanoengineering on films to form nanotextured/nanofunctionalized surfaces, with the aim of bringing novel properties or functionalities over their bulk counterparts.

Biodegradable coatings and interfaces

Improved implant surfaces for enhanced bioactivity, and advantageous cell–surface interactions to assist in regenerating tissue.

Guest Editors

Dr. Anita Ioana Visan

“Laser-Surface-Plasma Interactions” Laboratory, Lasers Department, National Institute for Lasers, Plasma and Radiation Physics (INFLPR), 409A Atomistilor Street, 077125 Magurele, Romania

Dr. Gianina Popescu-Pelin

National Institute for Lasers, Plasma and Radiation Physics (INFLPR), “Laser-Surface-Plasma Interactions” Laboratory, Lasers Department, 409A Atomistilor street, 077125 Magurele, Ilfov, Romania

Deadline for manuscript submissions

closed (31 October 2024)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/106362

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)