

Special Issue

Innovations in Hybrid Biomaterials and Coatings

Message from the Guest Editor

Hybrid materials and nanocomposites represent one of the most promising classes of new materials, being at the cutting edge of technological innovations. One of the most important advantages of inorganic-organic hybrid materials is their simple processing technology, which allows for a tailored design for various applications. Their processing and composition allows them to be used for the production of transparent films, ideal for use as coatings. This Special Issue aims to obtain hybrid biomaterials and coatings, at the nanoscale level, with superior properties. In particular, the topics of interest include, but are not limited to:

Hybrid organic-ionorganic materials for medical application;

Hybrid polymer biomaterials for bone tissue regeneration;

Composite and nanocomposite biomaterials;

Biomimetic and bioactive coatings and scaffolds;

Surface modification of biomaterials;

Surface, interface thin films;

Corrosion and degradation of biomaterials;

Antimicrobial biomaterials and in vitro/in vivo evaluation.

Guest Editor

Prof. Dr. Daniela Mioara Ionita

Department of General Chemistry, Faculty of Chemical Engineering and Biotechnologies, National University of Science and Technology POLITEHNICA Bucharest, 313 Splaiul Independentei, 060042 Bucharest, Romania

Deadline for manuscript submissions

closed (30 November 2021)



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/50331

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

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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

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