Special Issue

Sustainable and Environmentally Friendly Technologies for Advanced Functional Coatings and Materials

Message from the Guest Editor

The Special Issue on coatings and advanced functional materials aims to gather cutting-edge research with practical applications, focusing on integrating functionalities for green energy solutions and sustainable practices. The desired functionalities include self-cleaning, superhydrophobic, superhydrophilic, anticorrosion, antibacterial, antiviral, antistatic, antireflective, antifouling, and barrier properties. These functionalities are intended for various industries such as transportation, aviation, energy, and electronics, aligning with the pursuit of green energy solutions. Coating preparation processes encompass a range of techniques, including chemical and physical vapor deposition, dipping, spraying, the incorporation of micro and nanoparticles, multilayer deposition, and sol–gel methods. Each process offers unique advantages in terms of efficiency, scalability, and environmental impact, underscoring the pivotal role of functional materials in advancing green energy solutions.

Guest Editor

Dr. Sandra M. A. Cruz

Laboratory of Tests, Wear and Materials, Instituto Pedro Nunes (LED & MAT, IPN), Rua Pedro Nunes, 3030-199 Coimbra, Portugal

Deadline for manuscript submissions

closed (31 May 2025)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/202469

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

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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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