

Special Issue

Advanced Catalytic Coatings and Films for High-Performance Applications

Message from the Guest Editors

Catalytic coatings are increasingly important for sustainable energy and environmental technologies, with applications in water splitting, fuel cells, batteries, air purification, and industrial catalysis. Their performance depends on advanced nanostructures, large active surfaces, and chemical stability, which are essential to improve efficiency, durability, and scalability. This Special Issue of *Coatings* welcomes original research and reviews focusing on novel synthesis and deposition techniques, structure–property relationships, functional optimization, and practical testing. Topics of interest include electrocatalytic coatings for energy conversion systems, photocatalytic coatings for environmental remediation, surface engineering strategies to enhance catalytic activity, coatings for sensors and reactors, composite and bioinspired designs, and evaluations of durability and long-term stability under real-world conditions. By gathering state-of-the-art studies, this issue aims to highlight scientific advances, address challenges, and showcase future directions for catalytic coatings in high-performance applications.

Guest Editors

Dr. Ivana Perović

Dr. Snežana Brković

Prof. Dr. Igor A. Pašti

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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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