

Special Issue

Advanced Coatings for Fuel Cells

Message from the Guest Editors

This Special Issue covers advancements in electrode and electrolyte optimization, focusing on material design and modification to enhance properties for diverse applications. Design involves tailoring composition, structure, and morphology, while modification techniques like doping, surface coating, and composites improve performance. Nanotechnology expands possibilities with size-dependent properties and methods like sol-gel and self-assembly.

Computational material science accelerates progress with property prediction and design optimization. These strategies continually advance materials science and technology. The scope of this Special Issue includes, but is not limited to, the following topics:

- Advanced fuel cell materials; Coating technology for fuel cells;
- Catalytic materials for electrochemical energy conversion and storage;
- Design of anti-carbon deposition electrode;
- Fuel conversion and utilization;
- AI for fuel cells.

Guest Editors

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Deadline for manuscript submissions

30 December 2025



Coatings

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/227790

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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.

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