

Special Issue

Advanced Fuel Cells: Design, Synthesis and Photoelectrocatalyst Applications

Message from the Guest Editors

This Special Issue entitled "[Advanced Fuel Cells: Design, Synthesis and Photoelectrocatalysts](#)" aims to combine a group of articles devoted to the most important areas in the development and synthesis of new catalytic materials for low-temperature fuel cells and photoelectrocatalysis. The design includes theoretical and experimental research targeted at the creation of active sites on catalysts' surfaces for electro-oxidation reactions as well as catalysts for oxygen reduction. This Special Issue will include research on the photocatalytic degradation of organic pollutants and photo- and photoelectrocatalytic CO₂ capture. Works on photoelectrocatalysis for hydrogen production through the decomposition of water are welcome. Particular attention will be paid to the development of new promising methods for the synthesis of active, stable, and selective nanocomposite materials both for fuel cells and for photoelectrochemical processes involving organic substances.

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Deadline for manuscript submissions

closed (20 April 2025)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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Message from the Editor-in-Chief

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