Special Issue

Thin Film Catalysts for Energy and Environment Utilization

Message from the Guest Editors

This Special Issue is intended to cover the most recent progresses in advanced thin film materials, from the synthesis and characterization to the evaluation of catalytic activity, corrosion resistance, mechanical properties, etc. Academic and industrial views and case studies will be given for the understanding of the thin film catalysts' action and reaction mechanisms for the future scope and trends of the domain—in particular, the design, preparation, and characterization of thin film materials for clean energy/energy generation research and environmental applications for clean processes. Potential topics include but are not limited to the following:

- Preparation of thin film materials/catalysts (electrocatalysts, biocatalysts, photocatalysts);
- Mechanical, electrical, and physicochemical characterization;
- Photocatalysis, plasma-catalysis, electrocatalysis, biocatalysis;
- Hydrogen production, storage, and applications;
- CO2 conversion and utilization;
- Biomass valorization and biofuel production;
- Catalytic removal of air and water pollutants;
- Catalytic elimination of solid-phase pollutants.

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