Special Issue

Advances in Catalytic Properties Based on Thin Films Materials for Environmental Applications

Message from the Guest Editors

This Special Issue focuses on cutting-edge research and innovations in the catalytic properties of thin film materials for environmental applications. Recent advancements have highlighted the potential of thin films to address critical environmental challenges, including pollution reduction and sustainable chemical processes. This issue explores the synthesis, characterization, and application of various thin film materials that enhance catalytic efficiency and stability while being economically and environmentally viable. Contributions are invited on topics including but not limited to the development of novel thin film catalysts, mechanistic insights into catalytic processes facilitated by thin films, applications of thin films in treating air, water, and soil pollutants, and the integration of thin film catalysts in industrial processes. Studies addressing such technologies' scalability, lifecycle analysis, and environmental impact assessments are particularly welcomed.

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