



## Advances in Photocatalysis: Photocatalytic Materials and Applications

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### Message from the Guest Editor

Dear Colleagues,

Photocatalysis represents an important class of chemical transformation that uses the energy provided by light to drive reactions that are difficult to carry out in the dark. Photocatalysis is defined as a change in the rate of a photochemical reaction by the activation of a semiconductor photocatalyst with sunlight or artificial light (ultraviolet or visible radiation). This is an advanced technique with several applications, such as solar energy conversion, photo-sensible sensors, wastewater and air treatment, organic and inorganic synthesis, surface science and storage devices, etc.

In this context, this Special Issue will cover various topics, such as:

- Synthesis and characterization of novel photocatalysts.
- Applications of photocatalysts in different areas:
  - wastewater and air treatment
  - energy conversion
  - drug delivery
  - others
- Photocatalytic materials to address specific sustainability challenges.
- Photocatalytic synthesis of organic and inorganic compounds.
- Critical review and perspectives on photocatalyst applications.





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## Message from the Editor-in-Chief

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