

## Special Issue

# Mechanisms, Devices and Applications of Photocatalytic Processes

### Message from the Guest Editor

Photocatalytic technology offers an innovative approach to addressing the energy and environmental challenges faced by human society. Research on photocatalytic hydrogen evolution, nitrogen reduction, carbon dioxide reduction, and high-value chemical conversion is advancing rapidly. In-depth investigations into the development of devices and mechanisms for these photocatalytic reactions are crucial for promoting the advancement and practical application of photocatalytic technology. This Special Issue on “Mechanisms, Devices and Applications of Photocatalytic Processes” seeks high-quality works focusing on the new materials, mechanisms, and devices for photocatalytic reactions. Topics include, but are not limited to, the following:

- Development of new materials for photocatalytic reactions;
- Design and development of photocatalytic reaction devices;
- Exploration of new mechanisms in photocatalytic reactions.

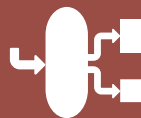
### Guest Editor

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### Deadline for manuscript submissions

31 October 2025



## Processes

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