



## Application of Metal (Oxide) Nanomaterials in Photocatalysis

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Deadline for manuscript  
submissions:

**closed (29 February 2024)**

### Message from the Guest Editor

Dear Colleagues,

Metal (oxide) nanomaterials have emerged as promising candidates for various applications, with photocatalysis being one of the most significant areas. Photocatalysis, a process that utilizes light energy to initiate chemical reactions, has gained significant attention due to its potential for sustainable energy production and environmental remediation. Metal (oxide) nanomaterials offer unique properties, such as large surface area, tunable bandgap, and enhanced catalytic activity, making them ideal for photocatalytic applications.

In photocatalysis, metal (oxide) nanoparticles play a crucial role as catalysts by absorbing light and generating electron-hole pairs. These metal (oxide) nanomaterials can effectively harness solar energy and exhibit excellent stability, making them suitable for various applications like water splitting, pollutant degradation, and hydrogen production. For this reason, this special issue encourages submissions of research articles and reviews related to Application of Metal (Oxide) Nanomaterials in Photocatalysis.





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## Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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