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Nanomaterials as Photocatalysts: Synthesis, Characterization, and Applications

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Deadline for manuscript
submissions:

20 May 2026

Message from the Guest Editors

Dear Colleagues,

This Special Issue delves into the intriguing field of nanomaterials as photocatalysts, focusing on their synthesis, characterization, and diverse applications. Nanomaterials, with their unique optical, electronic, and structural properties, are emerging as promising candidates for photocatalysis, which uses light energy to drive chemical reactions. This Special Issue highlights innovative synthesis methods to enhance photocatalytic efficiency and stability, alongside advanced characterization techniques that provide insights into their structural, electronic, and surface properties. It examines applications ranging from environmental pollutant remediation to hydrogen production and carbon dioxide conversion. By showcasing cutting-edge research in nanomaterials for photocatalysis, this Special Issue aims to deepen the understanding of fundamental principles and practical challenges, paving the way for novel solutions to global energy and environmental issues.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.



mdpi.com/si/213435

Special Issue



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Message from the Editor-in-Chief

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