

## Special Issue

# New Trends in Photocatalysis: Photocatalytic Materials and Applications

### Message from the Guest Editors

Photocatalysts represent a class of important materials for a wide range of processes, from the production of new pharmaceuticals to environmental applications. As a result, the number of studies investigating photocatalytic materials is steadily increasing, also showing an interesting level of interdisciplinary collaboration between chemists, engineers, and materials scientists. Recent trends focus on the design of catalysts at different hierarchical levels, ranging from molecular to plant-scale, within the more general framework of sustainability challenges and process intensification. Potential topics of interest for this Special Issue include, but are not limited to, the following aspects: - Synthesis and characterization of novel photocatalysts - Intensification of photocatalytic processes for the production of functional molecules - Applications of photocatalysts in wastewater and air treatment - Photocatalytic materials to address specific sustainability challenges - Photocatalytic reactor and plant design - Critical and perspective reviews on proposed aspects of photocatalysis

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### Deadline for manuscript submissions

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