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TiO_2-Based Materials for (Photo)Catalysis II

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is a continuation of the previous Special Issue "TiO_2-Based Materials for (Photo)Catalysis".

In recent years, oxide-based photocatalysts have emerged as crucial materials to face environmental and energy issues. The photocatalytic process involves the creation of electron/hole pairs and their subsequent transfer to the particle surface to perform the desired reduction and oxidation processes. The key requirement to obtain efficient photocatalysts is to engineer the band edge positions to produce the appropriate redox species and to efficiently absorb solar radiation.

The present Special Issue of *Catalysts* aims to showcase the current state of the art in the synthesis, characterization, and modeling of oxide-based materials employed in advanced photocatalytic applications, including CO_2 reduction, water splitting, and environmental remediation.
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