

Special Issue

Titanium Dioxide Photocatalysis

Message from the Guest Editors

Dating from the seminal work of Fujishima et al. issued in 1971, titanium dioxide (TiO₂) is at the center of intense research devoted to the development of efficient photocatalysts. Among the many candidates for photocatalytic applications, TiO₂ is almost the only material suitable for industrial use. This is because TiO₂ shows a good trade-off between efficient photoactivity, high stability, and low cost. The present Special Issue of Catalysts is aimed at presenting the current state-of-the-art in the use of TiO₂ as photocatalyst, with a special emphasis on new TiO₂ nanomaterials (both powdered catalysts and photoelectrodes) for photocatalytic water splitting, CO₂ reduction and environmental remediation. In the present Special Issue, we have invited contributions from leading groups in the field with the aim of giving a balanced view of the current state-of-the-art in this discipline.

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