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Titanium Dioxide Photocatalysis

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Message from the Guest Editors

Dear Colleagues,

Dating from the seminal work of Fujishima et al. issued in 1971, titanium dioxide (TiO_2) is at the center of intense research devoted to the development of efficient photocatalysts. Among the many candidates for photocatalytic applications, TiO_2 is almost the only material suitable for industrial use. This is because TiO_2 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 TiO_2 as photocatalyst, with a special emphasis on new TiO_2 nanomaterials (both powdered catalysts and photoelectrodes) for photocatalytic water splitting, CO_2 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.

Prof. Vladimiro Dal Santo
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Guest Editors