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TiO2-Based Nanostructures, Composites and Hybrid Photocatalysts

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

Titanium dioxide (TiO2) is nowdays one of the most widely used photocatalytic materials due to its ability to oxidatively decompose organic pollutants, low cost, durability and corrosion resistance. It has wide applications in the energy and environmental fields.

The scope of interests includes but is not limited to the following topics:
- Fundamental properties of TiO2 nanostructures;
- Synthesis of bulk TiO2 crystals, TiO2 nanoparticles and thin films;
- Modification of TiO2 nanostructures through doping, including non-metal doping and metal doping;
- Self-doped TiO2 nanostructures: oxygen vacancies, black titania, etc.;
- Composites and hybrid photocatalysts based on TiO2 and carbon nanomaterials or on TiO2 and inorganic materials;
- Applications including water remediation, degradation of dyes and/or farmaceuticals, CO2 reduction, hydrogen evolution, fuels production, plasmonic photocatalysis, gas sensors, biomedical applications, etc.

It is our pleasure to invite you to submit a manuscript for this Special Issue.

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Message from the Editorial Board

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