

Special Issue

Novel Photocatalysts for Decomposition of Organic and Inorganic Pollutants

Message from the Guest Editors

This Special Issue is dedicated to new trends in research focused on synthesis of novel materials used in the degradation of organic and inorganic pollutants. The photocatalytic degradation of pollutants in air and water, carried out in the presence of semiconductor materials, creates new, more effective possibilities of removing pollutants (detergents, pharmaceuticals, pesticides, organic dyes, metal ions, etc.) from the natural environment. Moreover, photocatalytic degradation process is a very promising method of removing contaminants due to low costs and mild operating conditions. It is well known that photocatalysts play a fundamental role in the photocatalysis process. The proposed scope of this Special Issue includes: Synthesis of novel photocatalysts; Surface treatment and enhancement of photocatalysis properties (modification/grafting/doping/immobilization); Surface chemistry and functionality; Physicochemical characterization of photocatalysts; degradation of harmful inorganic and/or organic pollutants (for example: metal ions, detergents, pesticides, pharmaceuticals, organic dyes, etc.) using novel, synthesized photocatalysts.

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