catalysts

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Understanding the Molecular Mechanisms of Photocatalysis

Guest Editors:

Prof. Dr. Maria Luisa Marin
Instituto de Tecnología Química, Universitat Politècnica de València-Consejo Superior de Investigaciones Científicas, Avenida de los Naranjos s/n, 46022 Valencia, Spain

Dr. Francisco Boscá
Instituto Universitario Mixto de Tecnología Química (ITQ-UPV), Universitat Politècnica de València, Av. de los Naranjos s/n, 46022 Valencia, Spain

Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editors

This Special Issue, "Understanding the Molecular Mechanisms of Photocatalysis", expects to contribute to progress in reaction discovery and inspire the invention of improved photocatalysts, regardless of whether they are organic (supported or not) or semiconductor-based photocatalysts, for future technological applications. We welcome contributions on (but not limited to):

- photocatalytic processes for wastewater remediation;
- photocatalytic processes for wastewater disinfection;
- new photocatalytic materials for light-harvesting applications;
- synthetic processes mediated by photocatalysis;
- photocatalysis for radical mediated organic synthesis;
- mechanisms and kinetics of organic reactions mediated by light;
- the use of visible light for (enantio)selective organic transformations
- catalytic mechanisms of heterogeneous photoredox catalysis;
- photocatalytic materials for photodynamic therapy; and
- fundamental understanding of reactive oxygen species (ROS) actions.