Special Issue

Photocatalytic Synthesis

Message from the Guest Editors

Advanced green chemical technologies and processes in organic and inorganic synthesis/conversion are today one of the most important challenges for a sustainable future of the Earth. Utilization of renewable energy sources, in particular solar energy, is a key aspect of sustainability. Research on heterogeneous and homogeneous photocatalysis (PC) has been growing in the last decade to explore the various possibilities of applications offered by the synthesis of new and/or modified photocatalytic materials. Although photocatalytic processes often involve unselective reactions, in recent years, there has been an increasing amount of interest in application also for selective reduction and oxidation reactions. This Special Issue aims to cover all photocatalytic aspects concerning photocatalytic synthesis, photocatalytic conversion, photocatalytic oxidations, photocatalytic reductions, photocatalytic reactors, photocatalytic membrane reactors, photocatalytic membranes, organic photosynthesis, photodegradation, and photocatalytic materials. Experimental and theoretical contributions, original research papers, short communications, and review articles are invited for submission.

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