



Recent Advances on Carbon and Noble-Metal Based Photocatalysts

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Message from the Guest Editors

This Special Issue aims at highlighting the most recent breakthroughs and discoveries carried out in this hot field with an especial emphasis on the advances made in the synthesis of photocatalysts based on carbon nanostructured supports (i.e., CNTs, C_3N_4 , graphene, RGO, etc.) or that alternatively combine the use of conventional semiconductor supports with carbon nanostructures acting as sensitizers (i.e., carbon dots, graphene dots, carbon layers, etc.) to expand the photoresponse towards the visible-near infrared (NIR) range to enhance their photo-response in the visible-near infrared range. Special attention will be also devoted to noble-metal based photocatalysts capable of absorbing light in this same visible-NIR ranges that constitute themselves as plasmonic photocatalysts or can act as sensitizers. The application of these photocatalytic materials towards less explored reactions such as gas phase or in situ biophotocatalytic processes will be also especially welcome in this Special Issue.

