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Photocatalytic Materials for Environment Treatment and Energy Production

Guest Editor:

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Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editor

Photocatalysis technology (PC) has received increased attention due to its high potential for addressing both environmental and energy issues, using only sunlight as energy input. However, the industrial-scale PC technology development is still limited due to the rather low efficiency which significantly depends on the photocatalyst materials. There are a wide range of materials with photocatalytic applications, such as semiconductors (metal oxides, metal sulfides/selenides, etc.), semiconductor-based heterojunctions (micro/nano composite structures, binary or ternary hybrid structures etc.), transition metal spinel type mixed oxides, perovskites, metal organic frame works (MOFs), hydrogels and waste-derived or templated photocatalytic materials. Thus, the development of innovative, advanced and operative technologies using efficient, environmentally, sustainable and reusable photocatalytic materials was and remain the main challenge for the worldwide scientific community.

Considering the above-mentioned issues, but not limited to these, it is our pleasure to invite you to submit a manuscript to this Special Issue.

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Message from the Editor-in-Chief

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