

Special Issue

Photocatalysis in 2D Materials Science

Message from the Guest Editors

The major goals of this Special Issue apply not only to the materials with 2D geometry for superior photocatalytic performance, but also, at the very basic fundamental level of understanding, to corroborate why it is so. More explicitly, we are looking for papers on how photocatalytic performance is impacted by the role of the band-gap nature which changes from the bulk to 2D layer geometry as well as materials with strong 2D in character, i.e., properties and geometry, are independent on layer thickness or stacking; as well as papers on how the nature of the 2D materials influences the redox alignment and life-time of photoexcited charge particles going from the bulk to 2D layers morphology, either pristine or heterostructure. As far as heterogeneous photocatalysis is concerned, the 2D ultrathin layers with the Janus nature would add another feather in the cap. We hope the current issue will shed more light on 2D materials science domain by speculating on properties that will enhance photocatalytic efficiency and applications of 2D materials for better use.

Guest Editors

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