



Photocatalysis in 2D Materials Science

Guest Editors:

Dr. Tilak Das

Dipartimento di Scienza dei
Materiali, Università degli Studi
Milano-Bicocca, Via Roberto
Cozzi 55, 20125 Milano, Italy

Dr. Dhanya Puthusseri

Davidson School of Chemical
Engineering, Purdue University,
West Lafayette, IN 47907, USA

Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editors

Dear Colleagues,

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 lifetime 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.

Dr. Tilak Das

Dr. Dhanya Puthusseri

Guest Editors

