

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

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)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/66768

Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)





Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn

Carl R. Ice College of Engineering, Kansas State University, Manhattan,
KS, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).