

Special Issue

Graphene-based Catalysis

Message from the Guest Editor

Graphene can be used as excellent catalysts for many chemical reactions. Very recent work demonstrated that graphene is an ideal platform for single-atom catalysts. Despite the exciting discoveries in graphene-based catalysis, some critical problems (such as difficulty in large-scale fabrication and limited types of catalyzed chemical reactions) still remain that greatly hamper the future applications of graphene-based catalysts. Submissions to this Special Issue on “Graphene-based Catalysis” are welcomed in the form of original research papers or short reviews that reflect the state of research in this emerging field. The topics include the following topics: Design of new graphene based catalysts; mechanism studies of chemical reactions catalyzed by graphene-based catalysts; fabrication and characterization of graphene-based catalysts; graphene-based catalysis in energy related applications; theoretical/computational studies of all aspects of graphene-based catalysis; and benchmark studies of performance of various graphene-based catalysts.

Guest Editor

Prof. Dr. Chun Zhang

Department of Physics and Chemistry, National University of Singapore, Singapore 117551, Singapore

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

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