



Graphene-based Catalysis

Guest Editor:

Prof. Dr. Chun Zhang

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

Deadline for manuscript
submissions:

closed (20 December 2019)

Message from the Guest Editor

Dear Colleagues,

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.

