



## Graphene-based Catalysis

Guest Editor:

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### 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.



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*Guest Editor*

# Special Issue