



Nanoparticles and Nanocrystals: Design, Characterization, and Applications

Guest Editor:

Dr. Young Wook Lee

Department of Education
Chemistry, Gyeongsang National
University, Jinju 52828, Republic
of Korea

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Message from the Guest Editor

Dear Colleagues,

With the growing concerns about global warming and the depletion of petroleum resources, many researchers' efforts are directed towards the research and development of renewable energy production and energy storage technologies. The development of high-performance and cost-effective bi-functional electrochemical catalysts is highly desirable, considering the energy crisis and environmental problems.

This Special Issue will focus on using bi-functional electrocatalysts to generate power or hydrogen. This Special Issue will include reviews and original research articles describing recent developments and advances of bi-functional catalysts in their design, preparation, and characterization with unique properties, with the aim of improving catalytic performance for energy conversion and storage system applications as well as developing our understanding of photocatalytic reactions.

It is my pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.

Prof. Dr. Young Wook Lee
Guest Editor





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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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