

Special Issue

Chiral Nanomaterials and Their Photo(Electro)catalytic Applications

Message from the Guest Editors

This Special Issue is focused on recent advances in the synthesis of chiral nanomaterials and helical nanostructures for applications in photocatalysis and electrocatalysis, as well as studies on the chiral structures of nanoparticles and their catalytic behaviors. Studies related to the preparation of chiral nanomaterials, including chiral induction, transfer, amplification and modulation, as well as research works on the effects of chiral ligands, coordination atoms, non-covalent interactions, spin states, and confined environments on catalytic performance are welcome. The Special Issue will also include but not be limited to research into the design and development of new photocatalysts and electrocatalysts for hydrogen evolution reaction (HER), oxygen reduction reaction (ORR), oxygen evolution reaction (OER), nitrogen reduction reaction, CO₂ reduction reaction (CO₂RR), etc., as well as their applications in fuel cells, metal-air batteries, water splitting devices, and so on.

Guest Editors

Dr. Jinchen Fan

Prof. Dr. Junchao Wei

Dr. Yuefei Wang

Dr. Yu Ma

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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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Prof. Dr. Keith Hohn

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

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