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Synthesis and Application of Nano-Catalyst

Guest Editors:

Dr. Mi Tang
School of Materials Science and Engineering, Hubei University, Wuhan 430062, China

Dr. Yuan Chen
College of Energy Materials and Chemistry, Inner Mongolia University, Hohhot 010020, China

Deadline for manuscript submissions:
closed (10 June 2024)

Message from the Guest Editors

Dear Colleagues,

Nano-catalyst is an indispensable part of heterogeneous catalysis, which is widely used in energy storage, clean energy, environmental protection and the synthesis of new materials. The preparation of catalysts with high activity, selectivity and stability is an important application of nanotechnology in the field of catalysis.

This Special Issue aims to encompass original scientific papers, short communications, and reviews on innovative approaches for nano-catalyst preparation without any restrictions regarding the types of catalysts (zeolites, supported metals, MOFS, clays, carbons, nanotubes, structured catalysts, immobilized homogeneous catalysts, nanoreactors, membranes, etc.). Besides classical methods of preparation (hydrothermal synthesis, sol-gel methods, impregnation, precipitation, etc.), the editors also anticipate contributions addressing less conventional methods such as surfactant assisted preparations, mechanochemical or plasma activation, ALD, CVD, flame and combustion methods, application of ultrasound, etc.

The editors especially welcome contributions in such emerging areas as numerical and theoretical approaches in catalyst preparation.

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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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Contact Us

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

Tel: +41 61 683 77 34
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