

Special Issue on
**Application of Nanostructured Transition Metal
Compounds as Electrocatalysts in New Energy**

CALL FOR PAPERS

In recent years, nanostructured transition metal compounds (TMCs) have attracted much attention due to their distinctive structure and unique properties, which make them electrocatalysts for applications in solar cells, fuel cells, capacitors, Li-ion batteries, biosensors, capacitors, hydrogen generation, organic matter decomposition, and pollution control. Synthesis and investigation of these nanostructured TMCs are beneficial for development of new-generation energy devices with high performance.

Advances in introducing nanostructured TMCs into more ordered structures through more controlled preparation manner not only have helped researchers to better understand growth mechanism but also have expanded their application fields. This special issue aims to enhance the fundamental understanding of nanostructured TMCs as electrocatalysts for their applications in new-energy devices. The research on novel nanostructure and morphologies, new applications or functions of composition, morphology, and structure of TMCs in nanoscale is also encouraged.

Original research articles and review articles on the synthesis, characterization, properties, and applications of TMCs are invited to contribute to this special issue.

Potential topics include but are not limited to the following:

- ▶ Nanomaterials with novel morphology
- ▶ Oriented array of nanostructured TMCs
- ▶ Roles of composition and morphology of nanostructured TMCs
- ▶ Novel synthetic approaches for TMCs
- ▶ TMCs for new energy applications
- ▶ TMCs for energy conversion
- ▶ TMCs for advanced energy systems
- ▶ Renewable and clean energy technologies
- ▶ TMCs for energy harvesting
- ▶ TMCs advanced materials for other energy systems
- ▶ Energy storage techniques
- ▶ TMCs green buildings

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/ijelc/tmc/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Guest Editor

Sining Yun, Xi'an University of
Architecture and Technology, Xi'an,
China
yunsining@xauat.edu.cn

Guest Editors

Hongzhong Liu, Xi'an Jiaotong
University, Xi'an, China
hzliu@mail.xjtu.edu.cn

Jingmei Liu, Xidian University, Xi'an,
China
jmliu@xidian.edu.cn

Lijian Meng, Instituto Superior de
Engenharia do Porto, Porto, Portugal
ljm@isep.ipp.pt

Qin Hu, State University of New York at
Buffalo, Buffalo, USA
qinhu@buffalo.edu

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