



an Open Access Journal by MDPI

## Novel Non-Precious Metal Electrocatalysts for Oxygen Electrode Reactions

Guest Editors:

**Prof. Dr. Nicolas Alonso-Vante**

IC2MP-UMR CNRS 7285,  
University of Poitiers, 86022  
Poitiers, France

**Prof. Dr. Yongjun Feng**

State Key Laboratory of Chemical  
Resource Engineering, Beijing  
University of Chemical  
Technology (BUCT), No. 15,  
Beisanhuan East Road,  
Chaoyang District, Beijing  
100029, China

**Prof. Dr. Hui Yang**

Shanghai Advanced Research  
Institute, Chinese Academy of  
Sciences, Shanghai Pudong New  
Area, Haik Road No. 99,  
Shanghai 201210, China

### Message from the Guest Editors

Increasing inevitable global demands for energy have stimulated considerable research on alternative energy harvesting technologies, conversion and storage systems with high efficiency, cost-effective and environmentally friendly systems, such as fuel cells, rechargeable metal-air batteries, unitized regenerative cells, and water electrolyzers. The scarcity of precious metals, their prohibitive cost, and declining activity greatly hamper the practice for large-scale applications. It is of paramount practical importance and interest to develop efficient and stable materials for the oxygen electrode, based on Earth-abundant non-noble metals. With the fast development of advanced nanotechnology, novel non-precious metal electrocatalysts for the oxygen reactions have been explored based on the innovative design in chemical compositions, structure, and morphology, and supports.

Deadline for manuscript  
submissions:

**closed (30 September 2018)**



[mdpi.com/si/11158](https://mdpi.com/si/11158)

# Special Issue