Special Issue

Transition-Metal Chalcogenide Electrocatalysts

Message from the Guest Editors

With the overuse of fossil fuels, an energy crisis and environmental problems have occurred. In contrast, electrocatalysts play an important role in the production of renewable energy. In recent years, the studies of transition metal chalcogenides (TMC) are gradually increasing in the electrochemical reactions such as the hydrogen evolution reaction, oxygen evolution reaction, oxygen reduction reaction and CO2 reduction reaction. The electrocatalytic performance of TMCs is governed by their elemental composition, electronic structure and active sites. Compared to the noble metals Pt, the intrinsic electrocatalytic properties of inexpensive TMCs are still inadequate. To improve the electrocatalytic properties of TMCs, several strategies have been adopted, including nanocrystallization, phase transition engineering, heteroatom doping, atom defects and extrinsic force inducement.

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