Special Issue

Novel Developments in Fuel-Cell Oxygen Reduction Electrocatalysts

Message from the Guest Editors

With carbon neutrality becoming a global agreement, more and more research has been dedicated to the commercialization of fuel cells. However, there are still several challenges remaining in oxygen reduction electrocatalysts. Firstly, the sluggish kinetics of the oxygen reduction reaction requires high Pt loading in PEMFCs, which significantly contributes to the cost of the FCs. Secondly, catalyst stability is still a bottleneck in FC lifetime. Thirdly, the characterization of electrocatalysts in fuel cell devices seems to be very important, as electrochemical tests in electrolytes are quite different from real working conditions. This Special Issue aims to cover recent progress and trends in designing, synthesizing, characterizing, and evaluating advanced electrocatalysts for oxygen reduction in fuel cells.

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