



Electrochemical Engineering from Batteries to Electrocatalysis

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Message from the Guest Editors

Dear Colleagues,

Electrochemical technologies including batteries, fuel cells, and electrocatalysis represent effective strategies to reduce today's dependence on fossil fuels. Tremendous efforts have been devoted to both batteries and electrocatalysis to improve the performance of the devices. However, their application in large scale is still limited. One promising approach is to integrate the insights and design from batteries and electrocatalysis. To bridge the gap between batteries and electrocatalysis, the present issue will cover various topics related to batteries and electrocatalysis. Specifically, the following topics will be covered: 1) battery related transition metal oxides for oxygen evolution reaction and CO₂ reduction, 2) characterizations for batteries and electrocatalysis, 3) system-level integration of batteries and electrocatalysis, 4) electrolyte engineering for batteries and electrocatalysis, 5) theoretical understanding from batteries to electrocatalysis

