

Special Issue

Electrocatalysis and Photocatalysis in Redox Flow Batteries

Message from the Guest Editor

Redox flow batteries (RFBs) are a strong player in the large-scale energy storage of green grids due to their decoupling of energy and power, decade-long cycle life, and low risk of fire. However, the electrode kinetics are usually slow, limiting their wide deployment.

Electrocatalytic materials are needed to reduce the reaction barrier. The RFBs can be further combined with photoelectrochemical cells to directly convert and store solar energy in soluble redox species, rather than the hard-to-store gaseous products in solar water splitting cells. We hope that this Special Issue will provide useful information for researchers and encourage their involvement in this field.

Guest Editor

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