Special Issue

Redox Flow Batteries for Large-Scale Energy Storage

Message from the Guest Editors

Renewable energy sources such as solar and wind power have shown great promise to relieve the dependence on fossil fuels, thereby achieving a low-carbon society. However, due to the intermittent nature of renewables, the power generated cannot provide stable and consistent power delivery. Thus, energy storage technologies, battery technologies in particular, are needed to address the challenges associated with modernizing the power grid. Amongst different battery technologies, flow batteries are regarded as the most promising candidates for large-scale energy storage systems, offering long hours of storage capacity. This vision has driven intensive research into the development of flow battery technologies that combine performance and cost merits. In addition, the exploration of suitable battery management and control strategies is also key to enhancing the safety, reliability, and cost efficiency of the battery system...

Guest Editors

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