

Special Issue

Advances in Metal Air Batteries

Message from the Guest Editors

Metal-air batteries have attracted intense interest because of high specific energy exceeding other existing energy storage systems. Some metal-air batteries, including Zn-air and Mg-air batteries, have been commercially available, while some metal-air batteries, such as Li-air batteries, remain at the stage in laboratory. Theoretical and experimental studies are being carried out to solve the challenges of including overpotential, side reactions, low kinetic reaction rate, etc. Further, several design strategies of battery structures are proposed to improve rate capability and cycling performance. Those efforts highlight the importance of studies on reaction mechanisms in metal-air batteries for the development of next-generation power batteries. In this Special Issue, we wish to cover recent advances in metal-air batteries by hosting a mix of original research articles and some critical reviews.

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