

Recent Progress in Vanadium Flow Battery Manufacture, Scale-up and Demonstrations at Institute of Metal Research

Ao Tang

Institute of Metal Research, Chinese Academy of Sciences

Abstract:

As one of the earliest flow battery developers in China, Institute of Metal Research Chinese Academy of Sciences (IMR-CAS) starts its research and development in vanadium redox flow battery (VFB) since 2000. Supported by Shenyang National Laboratory for Materials Sciences and State Key Laboratory for Corrosion and Protection, the activities in vanadium flow battery development at IMR-CAS covers key materials development, stack design and manufacture, and system scale-up and demonstrations. Over the last decade, IMR-CAS has published over 60 research papers and filed more than 40 Chinese patents on vanadium flow batteries. In this presentation, the most recent progress in VFB manufacture, scale-up and demonstration at IMR-CAS will be introduced.