Special Issue

Metal Anodes for High-Performance Batteries: Looking towards 2040

Message from the Guest Editors

This Special Issue aims to solicit contributions to further understand the fragility of metal anodes during charging/discharging processes and to provide innovative solutions to improve their cycling stability. The topics of interest include, but are not limited to:

- Mechanisms of dendrite formation during cycling;
- Anode cycling modeling;
- Influence of surface morphology and crystal structure on dendrite formation in metal anodes;
- Advanced imaging/characterization techniques for metal anodes and anode-electrolyte interfaces;
- Surface modification of metal anodes for improved Coulombic efficiency;
- Innovative electrolyte designs for dendrite suppression in metal anodes;
- Evaluation of the electrochemical behavior of metal anodes under different cycling conditions;
- Electrochemical cell design for enhanced safety.

Guest Editors

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Editor-in-Chief

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