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Improve the cycle life of MnO₂-Zn battery by utilizing the “side reactions”

Rechargeable aqueous zinc ion batteries (ZIBs) are considered as a possible alternative of lithium ion battery because of their safety and low-cost. MnO₂ is a promising cathode material for ZIBs because of its high theoretical capacity and low cost. Recent researches are focused on suppressing the side reaction during Zn intercalation and deintercalation.