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Solvent clusters boost Zn deposition for Zn aqueous battery

To deal with the growth of Zn dendrites, 2-propanol/water cluster is designed to enhance the uniform Zn deposition in the anode. Then cluster diversion layer promotes the uniform distribution of Zn ions. The uniform Zn ions distribution suppress the “tip effect” and enhance the uniform Zn deposition. 2-propanol composite electrolyte shows the excellent stability in the anode side and stable electrochemical performance at -40°C .