Short Communication

Large-scale Synthesis of Cu₂O Nanocubes and Their Electrochemical Properties

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As an environmentally-friendly *p*-type semiconductor, cuprous oxide (Cu₂O) has exhibited potential applications, in particular sensors, solar cells, and Li-ion batteries. In this paper, uniform Cu₂O nanocubes were large-scale fabricated through a solution-based chemical precipitation method. The as-synthesized products were characterized by XRD and SEM. As anode materials for Li-ion batteries, Cu₂O nanocubes show excellent cycling performance, high capacity retention and coulombic efficiency.

Keywords: Cuprous oxide, Li-ion batteries, nanocubes, electrochemical performance

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