Short Communication

Co₃O₄ Nanofibers Modified by Graphene as High-performance Anode Materials for Lithium-ion Batteries

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1D CO nanofiber graphene (CO/G) composites were successfully synthesized by a two-step hydrothermal method. The CO/G composites could limit the aggregation of CO and improve the electronic conductivity at the same time. As a result, the as-prepared CO/G composite electrode had a high reversible capacity of 1591.4 mAh g⁻¹ for the first cycle, and the capacity remained at 550 mAh g⁻¹ after 70 cycles.

Keywords: Co₃O₄ nanofiber, graphene, anode, Li-ion batteries.

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