Short Communication

Mesoporous TiO₂ Spheres/Graphene Composite as a High-Performance Anode Material for Lithium-ion Batteries

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Mesoporous TiO₂ spheres/graphene (TOS/G) composites were successfully prepared via a UV-assisted method of reduced graphene oxide with hydrazine. The as-prepared TOS/G composites exhibit a high initial discharge capacity of 218 mAh g⁻¹ and retain 86% of reversible capacity over 100 cycles at a rate of 0.2 C.

Keywords: TiO₂ sphere, graphene, anode, lithium-ion battery.

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