



添加剂对SiO电性能的影响及其机理分析

Electrochemical Performances of SiO: Effects of Additive and Mechanism

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中文摘要:

英文摘要:

SiO_x/CoO and SiO/Li₂CO₃ composite materials were prepared by mechanical ball-milling. The structures of the obtained materials were characterized by X-ray diffraction (XRD). And scanning electron microscopes (SEM) of three samples after 20 cycles were also given. In addition, the electrochemical performances of three materials with galvanostatic charge-discharge cycling were investigated. The results show that the composite samples have larger initial reversible capacities and better cycle performance than pure SiO. Also, a schematic diagram showing the buffer effects of Li₂CO₃ addition and the mechanism of improving electrochemical performance by adding Li₂CO₃ are suggested.

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