

The observations help to resolve a longstanding puzzle about LiFePO_4 : In bulk crystal form, both lithium iron phosphate and iron phosphate (FePO_4), which is left behind as lithium ions migrate out of the material during ...

coprecipitation for use as lithium-ion battery precursor materials. Comparison among different crystallization reagents, solution conditions that influence the properties of crystal particles, ...

Key-words : LiFePO_4 , Lithium ion secondary battery, Glass-ceramics, Crystallization, Transmission electron microscope [Received February 9, 2012; Accepted March 13, 2012] 1. ...

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The cathode material of carbon-coated lithium iron phosphate (LiFePO_4/C) lithium-ion battery was synthesized by a self-winding thermal method. The material was ...

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Our findings ultimately clarify the mechanism of Li storage in LFP at the atomic level and offer direct visualization of lithium dynamics in this material. Supported by multislice calculations and EELS analysis we

thereby ...

Carbon coated lithium iron phosphate particles have been synthesized by a ...

In this process, the bivalent iron in LFP material is oxidized to trivalent iron by oxidizing agent, and forms iron phosphate precipitation. Lithium in LFP material is selectively ...

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4 crystals in lithium iron phosphate glass ($33.3\text{Li}_2\text{O}\cdot 33.3\text{Fe}_2\text{O}_3\cdot 33.3\text{P}_2\text{O}_5$) particles with a ...

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The olivine-type $\text{LiM}_x\text{Fe}_{1-x}\text{PO}_4$ crystals are fabricated through the crystallization of $\text{Li}_2\text{O}\text{-MnO}_2\text{-Fe}_2\text{O}_3\text{-P}_2\text{O}_5$ glasses, and the lithium ion battery performance ...

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