

Abstract Submitted  
for the TSF09 Meeting of  
The American Physical Society

**Doping Effects of LiFePO<sub>4</sub> Cathode Materials for Lithium-Ion Batteries** JACOB HILL, JULIO SANCHEZ BERLANGA, TRAVIS NEELEY, GAN LIANG, HUI FANG, Sam Houston State University — The effects of doping on Fe site of LiFePO<sub>4</sub> cathode materials with varying concentrations of W, synthesized by the solution and ball milling methods, will be presented. X-ray diffraction, cyclic voltammetry, and constant current charge/discharge measurements are employed to characterize the structural, electronic, and electro chemical properties of the samples. The effects of varying reaction temperature and environmental composition will also be analyzed.

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Date submitted: 29 Sep 2009

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