

Abstract Submitted
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W Doping Effects on LiFePO₄ Cathode Materials with Carbon Coating for Lithium-Ion Batteries JACOB HILL, TRAVIS NEELEY, JESSICA BURK, KENNETH SWATZEL III, YAMIN CHOWDHURY, HUI FANG, GAN LIANG, Sam Houston State University — The effects of doping on Fe site of LiFeP₄ cathode materials with varying concentrations of W and with carbon coating, synthesized by ball milling method, will be presented. Results of W doping without carbon coating will also be shown. 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.

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