

FLORIDA STATE UNIVERSITY

THE GRADUATE SCHOOL

INVESTIGATION OF ELECTROCHEMICAL PERFORMANCE AND SYNERGY  
MECHANISMS IN LITHIUM-ION CAPACITOR AND HYBRID LITHIUM-ION  
CAPACITOR DEVICES

By

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A Dissertation submitted to the  
Program in Materials Science and Engineering  
in partial fulfillment of the  
requirements for the degree of  
Doctor of Philosophy

2020

Roya Naderi defended this dissertation on November 13<sup>th</sup>, 2020.

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