## FLORIDA STATE UNIVERSITY COLLEGE OF ARTS AND SCIENCES

## SOLID-STATE NMR STUDIES OF LI-ION TRANSPORT IN COMPOSITE ELECTROLYTES AND LITHIATION MECHANISMS OF ORGANIC ELECTRODES

By

JIN ZHENG

A Dissertation submitted to the Department of Chemistry and Biochemistry in partial fulfillment of the requirements for the degree of Doctor of Philosophy Jin Zheng defended this dissertation on March 30, 2020.

The members of the supervisory committee were:

Yan-Yan Hu

**Professor Directing Dissertation** 

Rufina G. Alamo

University Representative

Michael Shatruk

Committee Member

Justin G. Kennemur

Committee Member

The Graduate School has verified and approved the above-named committee members, and certifies that the dissertation has been approved in accordance with university requirements.