

FLORIDA STATE UNIVERSITY  
COLLEGE OF ARTS AND SCIENCES

EXPLORATORY FLUX GROWTH AND PROPERTIES OF RARE EARTH SILICIDES AND  
GALLIDES

By  
JO HADDOCK

A Dissertation submitted to the  
Department of Chemistry and Biochemistry  
in partial fulfillment of the  
requirements for the degree of  
Doctor of Philosophy

2022

Jo Haddock defended this Dissertation on July 7th, 2022.

The members of the supervisory committee were:

Susan Lattuner  
Professor Directing Dissertation

Peng Xiong  
University Representative

Michael Shatruk  
Committee Member

Geoffrey Strouse  
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.