

# Carnegie Mellon University

CARNEGIE INSTITUTE OF TECHNOLOGY

## THESIS

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF   **Doctor of Philosophy**

TITLE

**The growth and photochemical activity of  
hematite films on perovskite substrates**

PRESENTED BY

**Andrew M. Schultz**

ACCEPTED BY THE DEPARTMENT OF

**Materials Science and Engineering**

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ADVISOR, MAJOR PROFESSOR

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DATE

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DEPARTMENT HEAD

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ACCEPTED BY THE COLLEGE COUNCIL

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