

PREPARATION AND CHARACTERIZATION OF  $\text{LiNiVO}_4$  AND  
 $\text{LiNi}_{1-x}\text{Mn}_x\text{VO}_4$  ( $0 \leq x \leq 1$ ) CATHODE MATERIALS

LEENA ISMAIL

THESIS SUBMITTED IN FULFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF DOCTOR OF  
PHILOSOPHY

DEPARTMENT OF PHYSICS  
FACULTY OF SCIENCE  
UNIVERSITY OF MALAYA  
KUALA LUMPUR

2012