

CHARACTERIZATION OF ZnO-TiO₂ NANOPARTICLE THIN FILMS

PREPARED BY SPARKING PROCESS



TEWASIN KUMPIKA

**DOCTOR OF PHILOSOPHY
IN MATERIALS SCIENCE**

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THE GRADUATE SCHOOL

CHIANG MAI UNIVERSITY

APRIL 2009

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TEWASIN KUMPIKA

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
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**THIS THESIS HAS BEEN APPROVED
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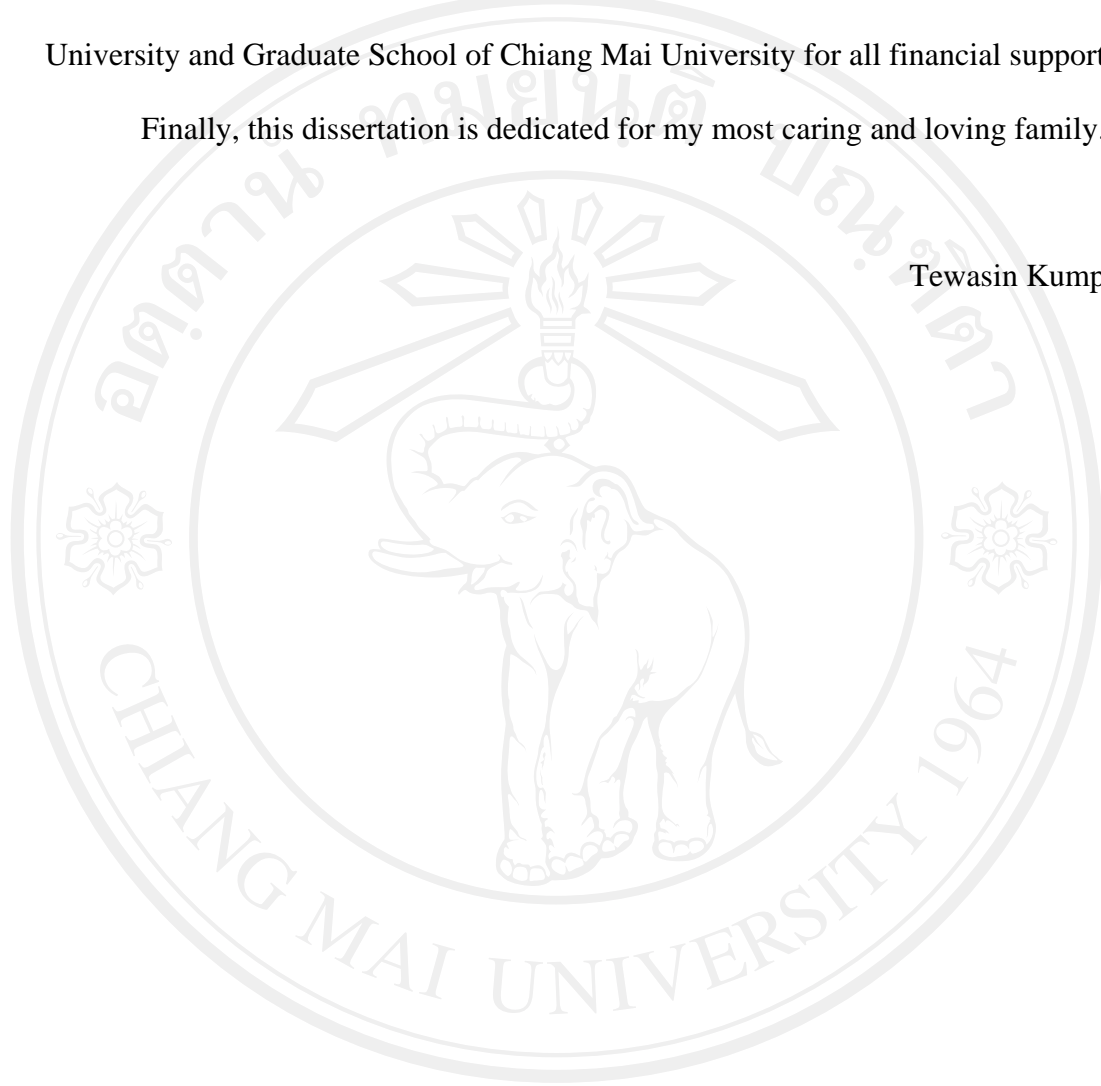
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