

**SYNTHESIS AND CHARACTERIZATION OF
NANOSTRUCTURED TRANSITION METAL
OXIDE ON METAL PLATES**

NUENGRUETHAI EKTHAMMATHAT

**DOCTOR OF PHILOSOPHY
IN CHEMISTRY**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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**GRADUATE SCHOOL
CHIANG MAI UNIVERSITY**

FEBRUARY 2014

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NUENGRUETHAI EKTHAMMATHAT

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
IN CHEMISTRY**

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THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF
THE REQUIREMENTS FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
IN CHEMISTRY

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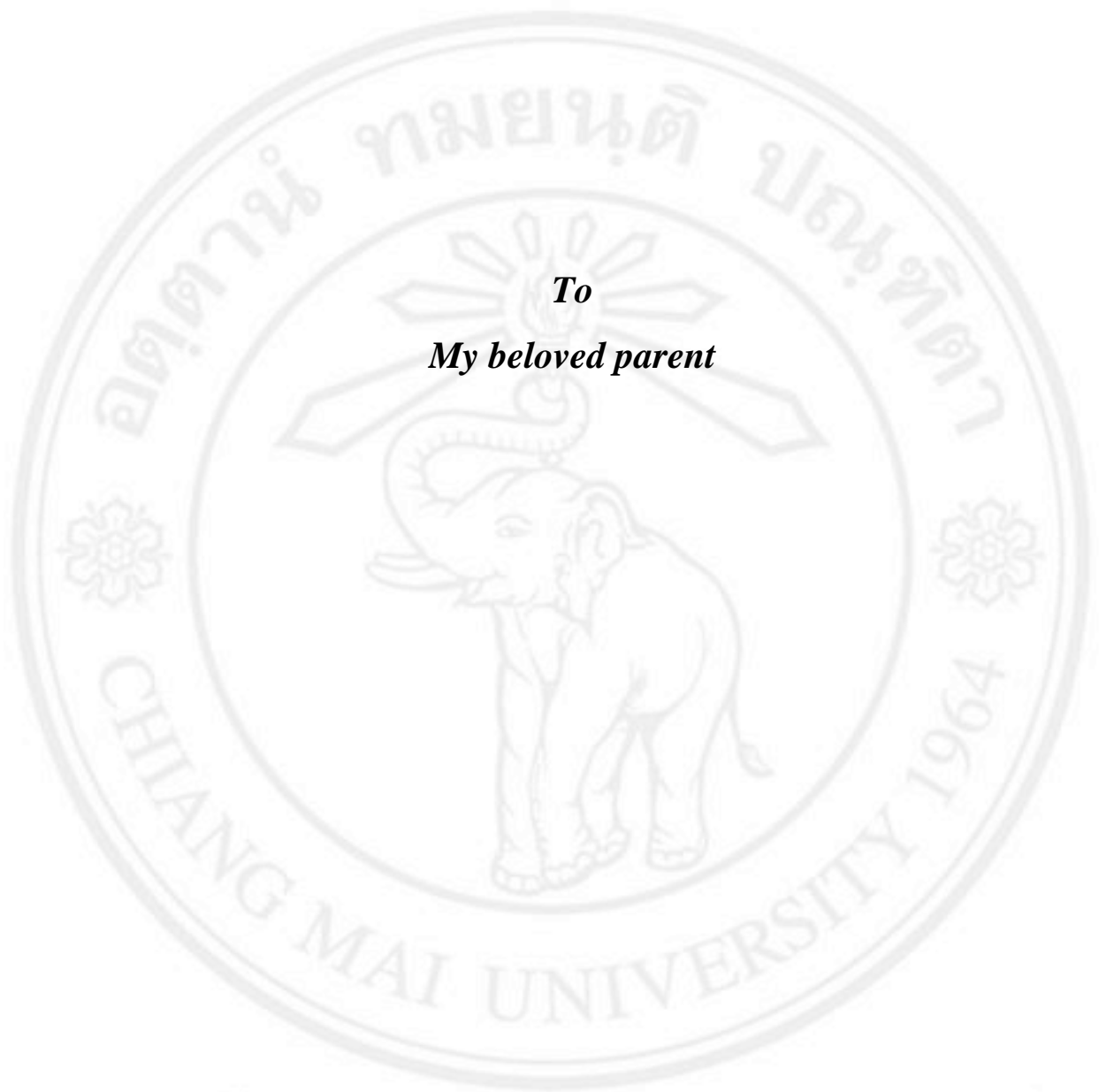
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25 February 2014

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*To
My beloved parent*

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