

**SYNTHESIS AND APPLICATIONS OF MAGNETIC  
NANOPARTICLES-SUPPORTED BASE  
REAGENTS FOR ORGANIC  
SYNTHESIS**

**PARINTIP RATTANABURI**

**MASTER OF SCIENCE  
IN CHEMISTRY**

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**THE GRADUATE SCHOOL**

**CHIANG MAI UNIVERSITY**

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**PARINTIP RATTANABURI**

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN  
PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF**

**MASTER OF SCIENCE  
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**THIS THESIS HAS BEEN APPROVED  
TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF MASTER OF SCIENCE  
IN CHEMISTRY**

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