DEVELOPMENT OF GREEN OXIDATION REACTIONS USING AMINE *N*-OXIDES AS OXIDIZING AGENTS



GRADUATE SCHOOL CHIANG MAI UNIVERSITY APRIL 2015

DEVELOPMENT OF GREEN OXIDATION REACTIONS USING AMINE N-OXIDES AS OXIDIZING AGENTS



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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BANNARAK KHUMRAKSA

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

Examination Committee:

W. KomChairman

(Dr. Weeranuch Karuehanon)

hodden PortA. Member

(Asst. Prof. Dr. Mookda Pattarawarapan)

(Asst. Prof. Dr. Sirirat Chancharunee)

(Dr. Wong Phakhodee)

(Dr. Neeranuch Chairungsi)

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hodden PortsAdvisor

(Asst. Prof. Dr. Mookda Pattarawarapan)

(Asst. Prof. Dr. Sirirat Chancharunee)

....Co-advisor

(Dr. Wong Phakhodee)

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