



University of Yangon

Information Day for Students Experience Sharing of Mobility



Presented By,

Dr Win Thi Yein

Lecturer

Department of Industrial Chemistry

University of Yangon

23rd September 2022 (Friday)



Outlines

Introduction about Program

Background of Program

Conducted Research & Activities

Challenges

Suggestions for Future Scholars

Introduction



- ❖ Program Name- **Doctoral Degree Programme (PhD)**
Chemical Engineering and Technology
China Scholarship Council (CSC)
- ❖ Host Country: China
- ❖ Host University: Harbin Institute of Technology
- ❖ Degree levels: Doctoral Degree Program
- ❖ PhD Scholarship in China: 4-5 Years



Scholarship Coverage

1. Tuition fees;
2. Free university dormitory or accommodation subsidy;
3. Comprehensive medical insurance;
4. Stipend is granted to the students at the following rates after freshman coming to China to register, the stipend will not be reissued before coming to China:
Doctoral students: CNY 3,500 per month.



❖ Host University- **Harbin Institute of Technology (HIT)**



哈爾濱工業大學
HARBIN INSTITUTE OF TECHNOLOGY

- ❖ HIT – Class A Double First Class University
- ❖ Focus on the research of Science and Engineering
- ❖ Rank 6th in the Best Global Universities for Engineering by U.S. News in 2017-2020
- ❖ Designed, Built and Launched own Satellites (in 2004, 2008 and 2013)





Scholarships offer from Harbin Institute of Technology (HIT)

- ❖ Chinese Government Scholarships
- ❖ HIT Outstanding Enrolled International Students Scholarship

Information about HIT Scholarship

<http://studyathit.hit.edu.cn/post/index/459>



Joined Department – School of Chemistry and Chemical Engineering

**Joined Research Group – MIT Key Laboratory of Critical Materials
Technology of New Energy Conversion and
Storage**

**Grant – National Natural Science Foundation of China (Grant Nos.
51173033, 51572060, 51502062) and Excellent Youth
Foundation of Heilongjiang Scientific Committee
(No.JC2015010)**

Supervisor – Professor Xiaohong Wu

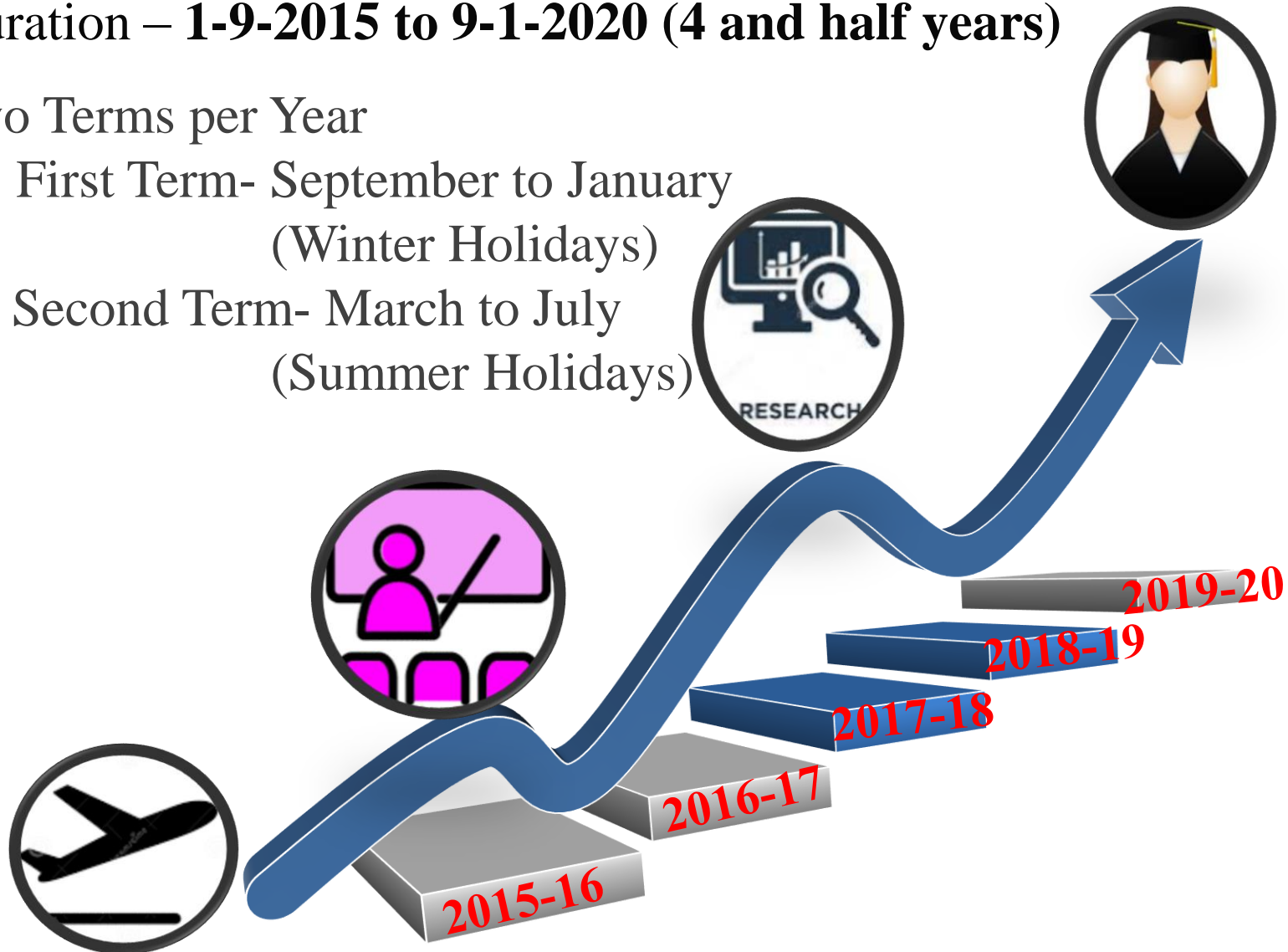
Vice Supervisor – Associate Professor Qun Wang



❖ Duration – **1-9-2015 to 9-1-2020 (4 and half years)**

Two Terms per Year

- (1) First Term- September to January
(Winter Holidays)
- (2) Second Term- March to July
(Summer Holidays)



Background Information about Scholarship Program



Chinese government - a series of scholarship programs to sponsor international students, teachers and scholars to study and conduct research in Chinese universities

China Scholarship Council (CSC), entrusted by the Ministry of Education of People's Republic of China - responsible for the enrollment and administration of Chinese Government Scholarship programs

279 designated Chinese universities offer - Science, Engineering, Agriculture, Medicine, Law, Economics, Management, Education, Liberal Arts, Philosophy, History, and Fine Arts

Usually the application season is between January and early April



Required Documents

- ① Application Form for Chinese Government Scholarship (in Chinese or English)
- ② Notarized highest diploma (photocopy)
- ③ Academic transcripts
- ④ A study plan or research proposal
- ⑤ Recommendation letters
- ⑥ Applicants for music studies are requested to submit a CD of the applicants' own works. Applicants for fine arts programs must submit a CD of the applicants' own works (including two sketches, two color paintings and two other works)



Required Documents

- ⑦ Applicants under the age of 18 should submit the valid documents of their legal guardians in China.
- ⑧ Applicants planning to stay in China for more than 6 months must submit a photocopy of Foreigner Physical Examination Form (valid for 6 months).
- ⑨ Applicants with Admission Letter from designated universities should enclose the letter in the application package.
- ⑩ Applicants with valid HSK Certificate should enclose it in the application package.

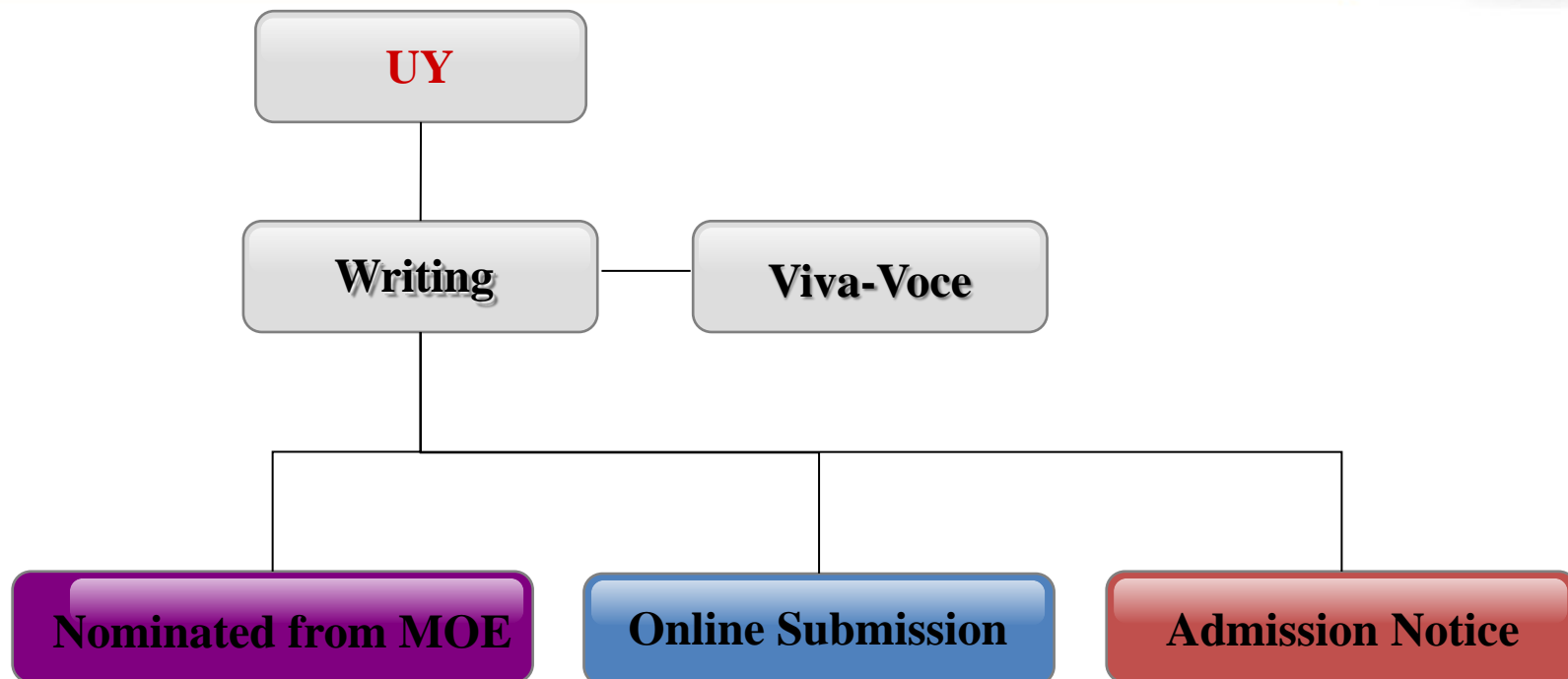


Information about Chinese Government Scholarship

<https://www.studyinchina.com.my/web/page/chinese-government-scholarship-application/>

Latest information about Chinese Government Scholarship

www.campuschina.org or www.csc.edu.cn/laihua



Conducted Research and Activities



2015-2016

1

Course Works

To be attained 12 credits and 3 SCI
Papers Publications

Course Works

16 credits is fulfilled for PhD Degree

Research Works

Start learning about Nanomaterials

Working Hours:

8 am to 10 pm



哈爾濱工業大學
HARBIN INSTITUTE OF TECHNOLOGY

Graduate Student Course Certificate

Name: WIN THI YEIN **Student No.:** 15BF07041 (Doctor)
Date of Birth: October 23, 1986 **Gender:** Female
Period of Study: September, 2015~the present
School/Department: Chemistry and Chemical Engineering
Discipline: Chemical Engineering and Technology



Completed Courses	Hour/Credit	Grade
English (Core Course for Doctoral Candidates)	64/2	90
Physics and Chemistry at Interface Solid	32/2	90
Kinetics of Electrode Processes	32/2	70
Quantum Chemistry	32/2	65
Chemistry of Nanoscale Materials	32/2	P
RARE EARTH MATERIAL ENGINEERING	32/2	P
Dissertation Proposals	16/1	A
Academic Activities	16/1	P
Comprehensive Assessment	16/1	P
In-process Inspection	16/1	P

The following is blank

Completed Credits: 16
Registrar: Self-Service Printing System

The Graduate School
Harbin Institute of Technology
Date: November 28, 2019



Grade Scale System: A (excellent)90-100 B (good)80-89 C (average)70-79 D (pass)60-69
F (fail)0-59 P (pass)60-100 E (exemption)
Add: 92 West DaZhi St. Harbin China P.C: 150001 Tel: 86-451-86413771
Web: <http://hitgs.hit.edu.cn> E-mail: hitgszm@hit.edu.cn



2016-2017

2

Research Works

Start doing the experiments about photocatalysis

Research Works

Writing the First manuscript about “ZnO-rGO Nanocomposites”

Research Works

Submit to the Journal

Research Works

Waiting for the news from Editor nearly 10 months

Submit the Research Proposal to the Department

“Metal sulfides 2D Nanosheets for Photocatalytic Dye Degradation”



2017-2018

3

Research Works

Start doing the experiments for my PhD Degree

Research Works

Start doing the experiments about CoS Ultrathin Nanosheets

Research Works

Writing the Second manuscript about “CoS Ultrathin Nanosheets ”

Research Works

Submit to the Journal

Research Works

Waiting for the news from Editor nearly 6 months



Research Works


Published First manuscript about “ZnO-rGO Nanocomposites”

Environ Chem Lett (2018) 16:251–264
<https://doi.org/10.1007/s10311-017-0651-1>



ORIGINAL PAPER

Enhancement of photocatalytic performance in sonochemical synthesized ZnO–rGO nanocomposites owing to effective interfacial interaction

Win Thi Yein¹ · Qun Wang¹ · Xueying Feng² · Yang Li¹ · Xiaohong Wu¹ 

Environmental Chemistry Letters

Impact Factor (IF)- 13.512 (2021)



Research Works

Published Second manuscript about “CoS Ultrathin Nanosheets”

Journal of Molecular Liquids 268 (2018) 273–283



ELSEVIER

Contents lists available at ScienceDirect

Journal of Molecular Liquids

journal homepage: www.elsevier.com/locate/molliq



Converting CoS-TEA hybrid compound to CoS defective ultrathin nanosheets and their enhanced photocatalytic property

Win Thi Yein¹, Qun Wang¹, Jinzhu Wu, Xiaohong Wu*

MIT Key Laboratory of Critical Materials Technology for New Energy Conversion and Storage, School of Chemistry and Chemical Engineering, Harbin Institute of Technology, Harbin 150001, China



Journal of Molecular Liquids

Impact Factor (IF)- 6.165 (2021)



Research Works

International Conference in HIT



“The 2nd HIT International Innovation and Entrepreneurship Competition” on Chemistry and Chemical Engineering, July 2018



First Prize in First position, Innovation Groups



2018-2019

4

Research Works

Start doing the experiments about piezocatalysis

Research Works

Writing the Third manuscript about “Co doped MoS₂ Piezocatalyst”

Research Works

Submit to the Journal

Research Works

Waiting for the news from Editor nearly 3 months



Research Works

Start doing the experiments about piezocatalysis

Research Works

Writing the Fourth manuscript about “Co doped MoS₂”

Research Works

Submit to the Journal

Research Works

Waiting for the news from Editor nearly 7 months



Research Works

Published Third manuscript about “Co doped MoS₂ Piezocatalyst”

Catalysis Communications 125 (2019) 61–65



Contents lists available at [ScienceDirect](https://www.sciencedirect.com)

Catalysis Communications

journal homepage: www.elsevier.com/locate/catcom



Short communication

Piezoelectric potential induced the improved micro-pollutant dye degradation of Co doped MoS₂ ultrathin nanosheets in dark

Win Thi Yein¹, Qun Wang¹, Yang Li, Xiaohong Wu*

MIIT Key Laboratory of Critical Materials Technology for New Energy Conversion and Storage, School of Chemistry and Chemical Engineering, Harbin Institute of Technology, Harbin 150001, China



Catalysis Communications

Impact Factor (IF)- 3.626 (2021)



Research Works

Published Fourth manuscript about “Co doped MoS₂ Piezocatalyst”

Chem. Res. Chinese Universities, 2019, 35(5), 892—900

doi: 10.1007/s40242-019-9006-8

Preparation of Novel Ultrathin Co doped MoS₂ Nanosheets Piezocatalyst for Fast Simultaneous Decomposition of Cr(VI) and MB in Dark

WIN Thi Yein, WANG Qun, JIAN Jiahuang, LI Yang and WU Xiaohong*

*MIIT Key Laboratory of Critical Materials Technology for New Energy Conversion and Storage,
School of Chemistry and Chemical Engineering, Harbin Institute of Technology,
Harbin 150001, P. R. China*

Chemical Research Chinese Universities

Impact Factor (IF)- 2.342 (2021)



Research Works

Published Fourth manuscript about “Co doped MoS₂ Piezocatalyst”

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Chemical Research in Chinese Universities
All Volumes & Issues

Volume 35, Issue 5, October 2019

ISSN: 1005-9040 (Print) 2210-3171 (Online)

In this issue (34 articles)

Page 1 of 2

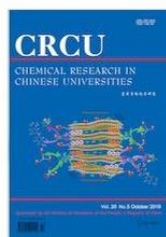
Highlight

Non-Aufbau Principle to Achieve High Stability Organic Luminescence Radicals
Benzhong Tang

Pages 743-744

Highlight

Geminions: A New Macrocyclic Arane with Dual/Gemini Molecular



Activate W

ISSN 1005-9040
CN22-1183/O6

CRCU

CHEMICAL RESEARCH IN
CHINESE UNIVERSITIES

高等学校化学研究

Vol. 35 No.5 October 2019

Sponsored by the Ministry of Education of the People's Republic of China

ISSN 1005-9040

Springer



Sept, 2019-Jan, 2020

5

6 months (Extension)

PhD Dissertation Preparation

Write the PhD Thesis

Research Works

Writing the Fifth manuscript about “Defective Rich MoS₂ Piezocatalysts”

Research Works

Submit to the Journal

Research Works

Waiting for the news from Editor nearly 2 months



Research Works

Published Fifth manuscript about “Defective Rich MoS₂ Piezocatalysts”

Journal of Environmental Chemical Engineering 8 (2020) 103626



ELSEVIER

Contents lists available at [ScienceDirect](#)

Journal of Environmental Chemical Engineering

journal homepage: www.elsevier.com/locate/jece



Piezo-potential induced molecular oxygen activation of defect-rich MoS₂ ultrathin nanosheets for organic dye degradation in dark

Win Thi Yein¹, Qun Wang¹, Yang Liu, Yang Li, Jiahuang Jian, Xiaohong Wu*

MIIT Key Laboratory of Critical Materials Technology for New Energy Conversion and Storage, School of Chemistry and Chemical Engineering, Harbin Institute of Technology, Harbin, 150001, China

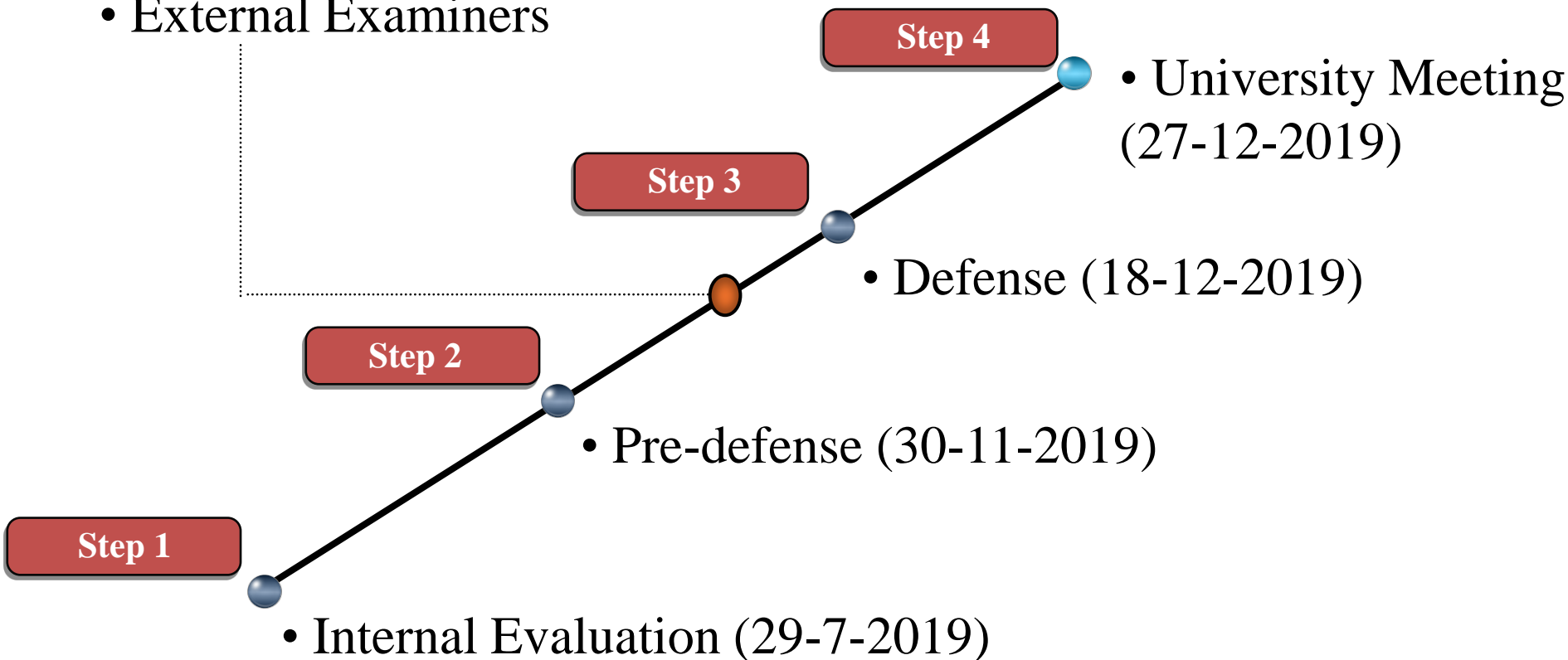


Journals of Environmental Chemical Engineering

Impact Factor (IF)- 5.876 (2022)



• External Examiners





PhD Dissertation Submission (Passed with Double Grade A)

论文中存在的不足及对论文的修改意见 (请务必填写此栏)

1. 文章内多数图表参数过小, 请注意调整尺寸。
 2. 文章内有些少数语句和拼写错误, 请仔细校对。
 3. 中文摘要文字需仔细润色。
 4. 部分图注信息不够完整, 建议再细化。
 5. 今后工作展望部分中, 有些点可以合并在一起。

(可加附页)

对论文工作后续研究的意见和建议

后续工作中, 建议作者进一步对不同缺陷=555品进行可控生长机理研究, 并写入摘要缺陷及相关机理的讨论中。

(可加附页)

请在 () 内打“√”

论文的创新性成果	优 (√) 良 () 一般 () 差 ()
论文的学术价值及应用价值	优 (√) 良 () 一般 () 差 ()
论文反映出作者的基础理论和专门知识水平	优 (√) 良 () 一般 () 差 ()
论文写作	优 (√) 良 () 一般 () 差 ()
论文总体评价: (评定时请参照下栏说明)	A (√) B () C () D () E ()

说明

A: 论文的创新性成果突出, 学术或应用价值大, 写作规范, 可以答辩
 B: 达到博士学位论文的要求, 论文不需修改或经一定修改即可答辩
 C: 基本达到博士学位论文的要求, 但需对论文进行较大修改后方可答辩
 D: 距博士学位论文的要求有一定距离, 需对论文进行重大修改后重新评审
 E: 没有达到博士学位论文的要求, 不同意申请答辩

注: “评审意见表”可从我校研究生院的网站下载, 地址为:
<http://hits.hit.edu.cn/news/default.asp?catid=A005700010002> 博士学位非匿名评审相关表格下载。

论文中存在的不足及对论文的修改意见 (请务必填写此栏)

1. 建议在绪论中进一步总结压电光催化材料的优缺点, 明确该方法的优势。
 2. 活性物种产生的化学反应方程式, 建议增加 $\text{Co}^{2+}/\text{Co}^{3+}$ 和 $\text{Mo}^{4+}/\text{Mo}^{6+}$ 电极电势。

(可加附页)

对论文工作后续研究的意见和建议

(可加附页)

请在 () 内打“√”

论文的创新性成果	优 (√) 良 () 一般 () 差 ()
论文的学术价值及应用价值	优 (√) 良 () 一般 () 差 ()
论文反映出作者的基础理论和专门知识水平	优 () 良 (√) 一般 () 差 ()
论文写作	优 (√) 良 () 一般 () 差 ()
论文总体评价: (评定时请参照下栏说明)	A (√) B () C () D () E ()

说明

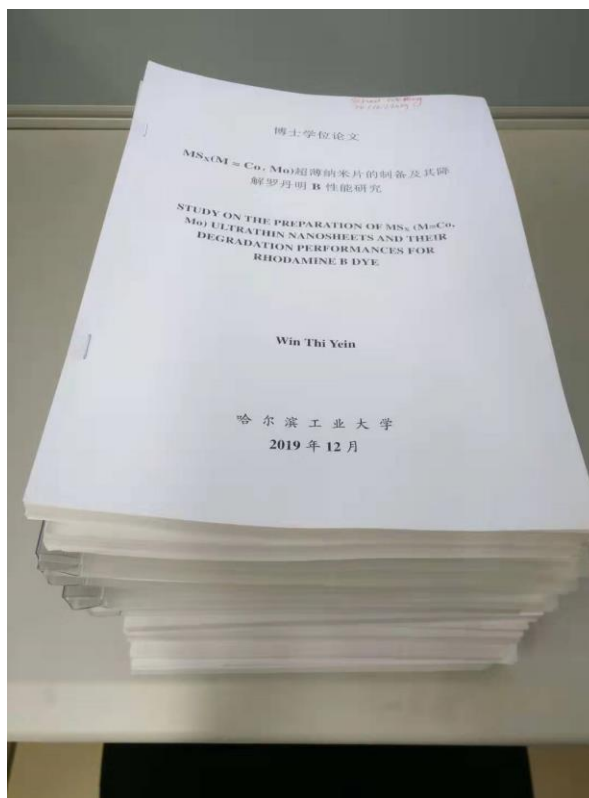
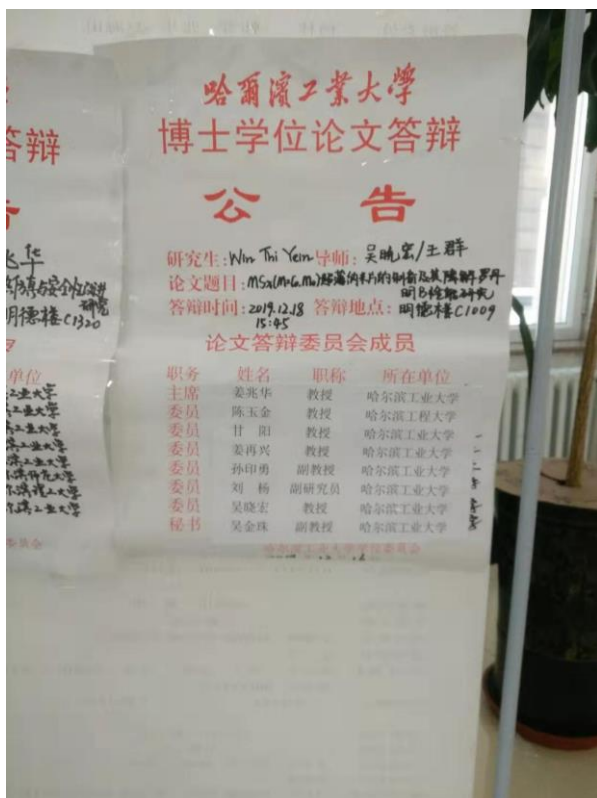
A: 论文的创新性成果突出, 学术或应用价值大, 写作规范, 可以答辩
 B: 达到博士学位论文的要求, 论文不需修改或经一定修改即可答辩
 C: 基本达到博士学位论文的要求, 但需对论文进行较大修改后方可答辩
 D: 距博士学位论文的要求有一定距离, 需对论文进行重大修改后重新评审
 E: 没有达到博士学位论文的要求, 不同意申请答辩

注: “评审意见表”可从我校研究生院的网站下载, 地址为:
<http://hits.hit.edu.cn/news/default.asp?catid=A005700010002> 博士学位非匿名评审相关表格下载。



PhD Dissertation Submission

Final Defense (18- December - 2019)





PhD Dissertation Submission Final Defense (18- December - 2019)



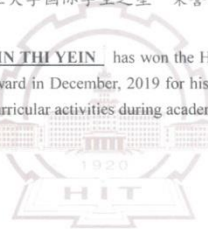


HIT STAR Award, December 2019

荣誉证书 Certificate of Honor

WIN THI YEIN 同学在学习期间，在研究、学术和课外活动中表现突出，被授予“哈尔滨工业大学国际学生之星”荣誉称号。
特此证明！

This is certify that WIN THI YEIN has won the Harbin Institute of Technology Star International Student Award in December, 2019 for his/her excellent performance in research, academic and co-curricular activities during academic year.



哈尔滨工业大学国际教育学院
College of International Education
Harbin Institute of Technology
2019年12月
December, 2019

HIT Star 星光璀璨

记“留学生每月一星”马文

Win Thi Yein

马文，女，汉族，2018年9月入学，就读于哈尔滨工业大学国际教育学院。在校期间，她积极参与各项学术和课外活动，成绩优异，多次获得校级奖励。她热爱科研，积极参与导师的科研项目，并在国际会议上发表论文。她性格开朗，乐于助人，是同学们的好朋友。她用实际行动诠释了“国际学生之星”的含义，为学校的声誉增添了光彩。

马文同学在哈尔滨工业大学国际教育学院学习期间，在研究、学术和课外活动中表现突出，被授予“哈尔滨工业大学国际学生之星”荣誉称号。她热爱科研，积极参与导师的科研项目，并在国际会议上发表论文。她性格开朗，乐于助人，是同学们的好朋友。她用实际行动诠释了“国际学生之星”的含义，为学校的声誉增添了光彩。



9 – January – 2020 Graduation Day



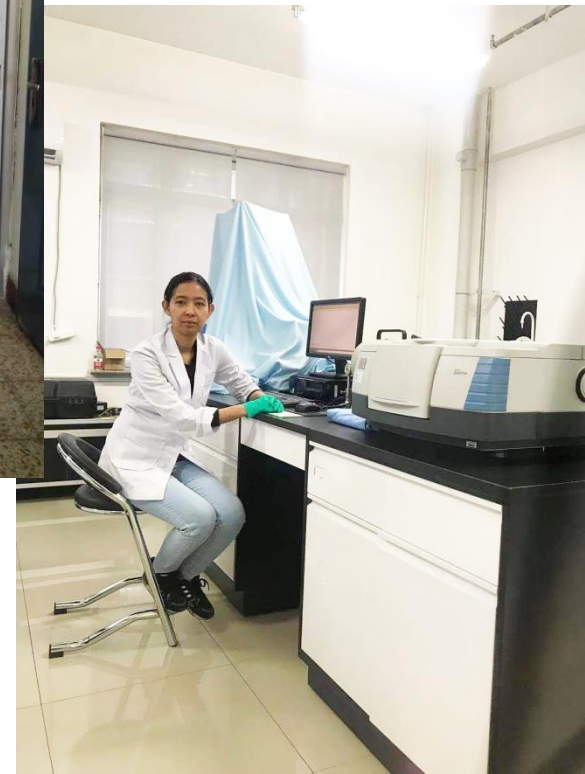


2015-2019

1-4

Academic Activities

Assistant Teacher to the under graduated exchange students from Thailand in 2016 and 2017





“Thinking about Quality Training Course” and “Thinking Skills Training Course” organized by China-Egypt Program of Communication on Cultural and Health between Harbin Institute of Technology and Menoufia University (National Outreach Project-One Belt One Road) in June, 2018





“The 4th FRSC Forum on Global Challenges and Chemistry Solutions: Water Safety Forum”, organized by HIT and Heilongjiang University in August, 2019

Programme Agenda		
20 August 2019, Harbin, Heilongjiang, China Chair: Prof Jun Ma, Harbin Institute of Technology and Prof Honggang Fu, Heilongjiang University		
Time	Event	Session Chair
09:00	Introduction and welcome	Jun Ma
09:20	Nanotechnology Enabled Water Sensing Peter J. Vikesland, Virginia Tech, USA	
10:00	Royal Society of Chemistry – Supporting the Chemical Science Community in Tackling Global Challenges Simon Neil, Royal Society of Chemistry	
10:20	Coffee Break and Group Photo	
10:50	Identification of Complex septic Odorants in Huangpu River Source Water by Coupling Gas Chromatography-olfactometry with Comprehensive Two-dimensional Gas Chromatography Min Yang, Research Center for Eco-Environmental Sciences, CAS, China	Xia Huang
11:30	SUEZ's Industrial Innovations Addressing Water Safety Challenges Tao Wang, SUEZ Water Technologies and Solutions, China	
12:10	Lunch	
13:30	Progress, Development and Challenges of Membrane-based Wastewater Treatment and Resource Recovery Xia Huang, School of Environment, Tsinghua University, China	Min Yang
14:10	Integrating Membrane Filtration with Advanced Oxidation Processes for Water/Wastewater Treatment Xie Quan, School of Environmental Science & Technology, Dalian University of Technology, China	
14:50	Microbial Electrochemistry Process for Pollutants Conversion, Energy Recovery and In-situ Use Yujie Feng, School of Environment, Harbin Institute of Technology, China	
15:30	Coffee Break	
15:50	Paper-Origami Device Enabling Low-Cost and Rapid Monitoring of Water Quality Zhugen Yang, Cranfield Water Science Institute, Cranfield University, UK	Jun Ma
16:20	Carrier-Modulated Strategies for Efficient Photocatalysis to Purify Polluted Water with Energy Recovery Liqiang Jing, School of Chemistry and Materials Science, Heilongjiang University, China	
16:50	Panel Discussion	
17:30	Close	

The 4th Fellow of the Royal Society of Chemistry (FRSC) Forum on Global Challenges and Chemistry Solutions: Water Safety



20 August 2019
Harbin, China

Environmental

The 4th Fellow of the Royal Society of Chemistry (FRSC) Forum on Global Challenges and Chemistry Solutions: Water Safety

20 August 2019, Heilongjiang, China 📅





Social Activities

Trips





“International Cultural Carnival” and “HIT’s World Hand in Hand Gala



Challenges



Academic Challenge- Different Education Background

Technology Challenge- Use the advance software, and tools

Language Barrier- Language is difficult

Weather Barrier- So cold and harsh weather (- 20°C nearly 8 months in one year)

Food Barrier- Different taste and cooking style

Suggestions



Physical Health and Mental Health- very important

Knowing the time management-crucial

Follow 2 R- Release and Relax

Patient and Wait for the good time to show ability

Never Give it Up.

Opportunity always Hits One Time.

Honesty is the Best Policy.



I am Only One but I am LION !

THANK YOU!