



THE HONG KONG POLYTECHNIC UNIVERSITY  
香港理工大學

This is to certify that

**LI Renjie**

having satisfied the examiners  
and having fulfilled all other requirements  
has been awarded the degree of

**DOCTOR OF PHILOSOPHY**

dated 30 November 2024

二零二四年十一月三十日

此證  
哲學博士  
考試及格照章頒授  
李人杰  
修業期滿

校 監  
李家超  
校 長  
滕錦光  
教務長  
沈德祥



  
Chancellor

  
President

  
Registrar





TRANSCRIPT OF STUDIES  
學業成績表

Name: LI Renjie (李人杰)  
ID / Passport No.: 420503199305271\*\*\* Student No.: 21056929R

**Study Starting From** 2021-2022 Semester 1  
**Programme Title** DOCTOR OF PHILOSOPHY  
**Mode of Attendance** FULL-TIME

**Qualification(s) Attained** DOCTOR OF PHILOSOPHY  
Year/Semester of Graduation: 2024-2025 Semester 1  
Year of Award: 2024

Subject Code/Title		Credit	Grade/Code
2021-2022 Semester 1			
ABCT612	ADVANCED CHEMICAL INSTRUMENTATION FOR RESEARCH	3.0	B-
ISE6606	SEMINARS I	1.0	P
2021-2022 Semester 2			
AP620	ATOMISTIC VIEW OF MATTER: MODELING & SIMULATION	3.0	B+
ELC6011	PRESENTATION SKILLS FOR RESEARCH STUDENTS	2.0	P
ISE6607	SEMINARS II	1.0	P
ISE6610	PRACTICUM I	1.0	P
2021-2022 Summer Term			
Registered			
2022-2023 Semester 1			
ELC6012	THESIS WRITING FOR RESEARCH STUDENTS	3.0	P
HTI6081	ETHICS: RESEARCH, PROFESSIONAL AND PERSONAL PERSPECTIVES	1.0	A
ISE6608	SEMINARS III	1.0	P
ISE6611	PRACTICUM II	1.0	P
2022-2023 Semester 2			
EIE6200	METHODOLOGY FOR ENGINEERING AND SCIENTIFIC RESEARCH	3.0	B
2022-2023 Summer Term			
Registered			
2023-2024 Semester 1			
Registered			
2023-2024 Semester 2			
Registered			
2023-2024 Summer Term			
Registered			
2024-2025 Semester 1			
Completed			

**Credit Requirement and Attainment**

DOCTOR OF PHILOSOPHY

Programme Credit Requirement: 15.0 including 2.0 Training credit(s)

Student Credit Requirement: 20.0 including 2.0 Training credit(s)

Credits Attained: 20.0 including 2.0 Training credit(s) (2023-2024 Summer Term)

Qualifying GPA: 3.10 (2023-2024 Summer Term)

**Thesis Title**

Advanced electrode materials for calcium rechargeable batteries

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Name: LI Renjie (李人杰)  
ID / Passport No.: 420503199305271\*\*\*

Student No.: 21056929R

- End of Transcript -



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Dean, Graduate School

Date of Issue: 15 November 2024





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EXPLANATION

1. Award

The award comprises a thesis and coursework.

2. Credit

A credit is used to indicate student effort. A student is expected to spend about 35 to 45 hours of study (inclusive of contact hours, private study, etc.) to earn a credit.

3. Grade/Code

Grade/Code	Grade Point (From 2020/21)	Interpretation (From 2020/21)	Grade Point (Before 2020/21)	Interpretation (From 2009/10 to 2019/20)
A+	4.3	Excellent	4.5	Exceptionally Outstanding
A	4.0		4.0	Outstanding
A-	3.7		(Not Applicable)	(Not Applicable)
B+	3.3	Good	3.5	Very Good
B	3.0		3.0	Good
B-	2.7		(Not Applicable)	(Not Applicable)
C+	2.3	Satisfactory	2.5	Wholly Satisfactory
C	2.0		2.0	Satisfactory
C-	1.7		(Not Applicable)	(Not Applicable)
D+	1.3	Pass	1.5	Barely Satisfactory
D	1.0		1.0	Barely Adequate
F	0.0	Fail	0.0	Inadequate
I	*	Assessment to be completed (from 2005/06) / Incomplete not due to the fault of student (before 2005/06)		
L	*	Subject to be continued in the following semester		
M	*	Pass with Merit (from 2006/07)		
N	*	Assessment is not required		
P	*	Pass on an ungraded subject		
S	0.0	Absent from assessment		
U	*	Fail on an ungraded subject		

(\* omitted in the calculation of all GPAs)

Grades with the following symbols denote disqualification of result due to:

# academic dishonesty / non-compliance with examination regulations (before 2019/20)

% academic dishonesty (from 2019/20)

@ non-compliance with examination regulations (from 2019/20)

4. Qualifying GPA

$$\text{Qualifying GPA} = \frac{\sum \text{Subject Grade Point} \times \text{Subject Credit Value}}{\sum \text{Subject Credit Value}}$$

Qualifying GPA is the result of the accumulated value of the subject grade point multiplied by the subject credit value divided by the total credit value for subjects within the programme credit requirement. It is capped at 4.00 before 2020/21. From 2020/21 onwards, it is not capped, and the highest value is 4.30.

For retaken subject, only the grade obtained in the final attempt will be included in the calculation. Grades obtained through credit transfer will also be taken into consideration.

5. Credits Attained

The Credits Attained only take into consideration those credits which are relevant for contributing to the award being pursued by a student.

6. Medium of Instruction

English is the medium of instruction and is used for classes, written assignments and examinations unless special approval has been given to a subject due to its specific nature.

- End of Explanation -