

# Academic Program for Ph.D. Candidates in Inorganic Chemistry

## Program overview

This program will ensure that students get a solid basis in inorganic chemistry, the various methods of conducting scientific research and the development of professional skills. The first year the main focus will be on expanding one's knowledge of the field and improving the student's ability to deliver high quality scientific research. In addition, a topic will be chosen for the dissertation and the associated research plans will be made. After getting approval from the research committee, students can start focusing on their graduation. The second, third and fourth year will focus on research for the dissertation, of which an important part is the publishing of papers in relevant journals. In the final year of study, students must submit a thesis based on their research for examination and pass a final oral examination defending his/her thesis.

## Fields of Specialization

Rare earth materials; heterogeneous catalysis

<https://faculty.sdu.edu.cn/enercat/en/index.htm>

Photoelectrocatalysis; water splitting

<https://www.chem.sdu.edu.cn/info/1075/4243.htm>

Interface chemistry in energy storage

[https://www.x-mol.com/groups/yang\\_jian](https://www.x-mol.com/groups/yang_jian)

Metal nanocluster; silver cluster

[https://faculty.sdu.edu.cn/sundi/zh\\_CN/index.htm](https://faculty.sdu.edu.cn/sundi/zh_CN/index.htm)

Energy storage and conversion materials

[https://faculty.sdu.edu.cn/~f13Iry/zh\\_CN/index.htm](https://faculty.sdu.edu.cn/~f13Iry/zh_CN/index.htm)

Metal-Organic Framework

[https://faculty.sdu.edu.cn/cuiping/zh\\_CN/index/20823/list/index.htm](https://faculty.sdu.edu.cn/cuiping/zh_CN/index/20823/list/index.htm)

Porous MOFs and COFs

<https://www.chem.sdu.edu.cn/info/1075/6338.htm>

Inorganic functional materials

<https://www.chem.sdu.edu.cn/info/1075/4251.htm>

Functional molecules & nanoaggregates

<https://www.chem.sdu.edu.cn/info/1075/4252.htm>

Inorganic synthesis chemistry; energy storage and conversion

[https://faculty.sdu.edu.cn/xiongshenglin/zh\\_CN/index.htm](https://faculty.sdu.edu.cn/xiongshenglin/zh_CN/index.htm)

### **Aim of the program**

The program aims to educate the next generation of inorganic chemistry talent to be able to compete with their peers in the global job market. Through extensive training and research practise, the student will graduate and hold the Ph.D. degree enabling him or her to work in the most qualified and prestigious jobs related to inorganic chemistry.

### **When and how to apply**

Applicants can apply starting from December 20<sup>th</sup>, 2021 till May 31<sup>st</sup>, 2022. For more information on the documents needed and the application procedure, please visit:

<http://www.istudy.sdu.edu.cn>.

### **Application for financial support**

There are possibilities for getting a scholarship either by the China Scholarship Council (CSC), the local government or through Shandong University. For more information on CSC scholarships, please visit: <http://www.campuschina.org/>. For more information on local government or university scholarships, please visit: <http://www.istudy.sdu.edu.cn>.

### **Contact information (for questions regarding the program or school)**

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