

**Requirements of Shenzhen Institute of Advanced Technology,
Chinese Academy of Sciences for Scientific Research Achievements of
First-level Discipline of Chemistry**

In order to further standardize the academic standards for the evaluation of dissertations, improve the academic level of dissertations and ensure the quality of graduate student training in the first-level discipline of chemistry, these Regulations are hereby formulated.

Article 1 Before applying for a degree, the degree applicants must obtain academic achievements in accordance with the requirements for the qualification of dissertation defense of a graduate student in the first-level discipline of chemistry.

Article 2 The requirements for obtaining (including accepted) academic achievements for graduate students applying for degrees in the first-level discipline of chemistry include:

(I) To apply for a doctoral degree, one of the following conditions shall be met:

1. Two high-quality academic dissertations related to the discipline have been published (including those accepted) in high-level journals in the field of the discipline as the first author; at least one of the dissertations has been officially published, and at most one of the dissertations has been published as the co-first author, and the dissertation can only be used by one student to apply for a degree.

2. The research results of the dissertation are significantly innovative and unique, or have important theoretical and application value, recommended by the supervisor, reviewed and approved by the subject review group and the doctoral dissertation defense committee, and recognized by the academic degree committee of the training unit that their level meets the requirements for the award of a doctoral degree.

3. For a doctoral student who applies for a degree in accordance with Article 2 above, his supervisor shall have only one recommended quota within five years, and

the recommended quota for each training unit shall not exceed 10% of the number of applicants for a degree.

(II) To apply for an academic master's degree, one of the following conditions shall be met:

1. As the first author or co-first author (ranking the top two), one high-quality academic dissertation (except review dissertations) related to the subject has been published in domestic core journals (including *Integration Technology*) or international conferences and above journals, and the achievements are only applicable to one student applying for a degree;

2. The research results of the dissertation are significantly innovative and unique, or have important theoretical and application value, recommended by the supervisor, reviewed and approved by the subject review group and the master dissertation defense committee, and recognized by the academic degree committee of the training unit that their level meets the requirements for the award of a master degree.

3. For a graduate student who applies for a degree in accordance with Article 2 above, his supervisor shall have only one recommended quota within five years, and the recommended quota for each training unit shall not exceed 10% of the number of applicants for a degree.

(III) Recognition of other research achievements obtained by doctoral and master's graduate students

1. The academic dissertations jointly published by the graduate students in top journals such as Nature and its sub-journals, Science and Cell, as the main collaborators and the top three doctoral and master's graduate students, the Ph.D. students can use the academic dissertations as one of the achievements of the application for dissertation defense. Master's students can directly apply for dissertation defense with the academic dissertation, provided that the main achievement of the academic dissertation (the actual contribution of the main collaborator) is one of the core contents of the dissertation and is reflected in the dissertation;

2. Doctoral students who have won awards for scientific research achievements closely related to their doctoral dissertations can be recognized by the following methods on the basis of the award certificates after their contributions have been reviewed and recognized by the discipline organizing committee: one national first-class scientific and technological achievement award with byline in the top five and one second-class scientific and technological achievement award with byline in the top three are equivalent to publishing a high-quality academic dissertation in a high-level journal in the field of this discipline;

3. Graduate students who have won awards for scientific research achievements closely related to their master's dissertations may be recognized by the following methods on the basis of the award certificate after their contributions have been reviewed and confirmed by the discipline organizing committee: for each first class scientific and technological achievement award with the byline of top five provincial and ministerial levels and above, and for each second class scientific and technological achievement award with the byline of top three, it is equivalent to publishing an academic journal dissertation in the field of the discipline. The scientific research achievements can be applied for master's dissertation defense, but the premise is that the main achievement of the science and technology award (the actual contribution of the main collaborator himself) is one of the core contents of his degree dissertation.

Article 3 The supervisor of the degree applicant is the first person responsible for the review of his academic dissertations and scientific research achievements, and the academic achievements of the applicant must be reviewed and approved by the supervisor before they can be published.

Academic dissertations published or accepted by degree applicants must be an important part of their dissertations, scientific research achievements independently completed by degree applicants under the guidance of their supervisors, with "Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences" as the first signature unit and the applicant as the first author (including co-first author except for the first supervisor). In addition, the byline of the second or third cooperative unit should be "Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences" or "University of Chinese Academy of Sciences".

Article 4 If an academic dissertation published by a state-sponsored joint Ph.D. student during his study abroad is one of the academic dissertations applied for the doctoral degree of Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, the applicant must be the first author, and the dual identity of the author should be clearly indicated. That is, visiting graduate students from a foreign university or research institution, graduate students from Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, and so on, with the cooperative unit and Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences as the Co unit of the author. In addition, the byline of the third or fourth cooperative unit should be "Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences" or "University of Chinese Academy of Sciences".

Article 5 Various supervisors may put forward higher requirements according to the actual situation, but he must inform the students at the time of admission and include them in his training plan.

Article 6 These requirements for discipline achievements will be implemented in batches in the winter of 2024 . The original *Requirements of Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences for Scientific Research Achievements of First-level Discipline of Chemistry* (SYJ ZI [2022] No.21) shall be repealed simultaneously.

Article 7 The right to interpret and modify the requirements of the requirements for discipline achievements belongs to the chemical materials discipline working group.