

## Criteria for Award of Postgraduate Degrees by Hefei National Laboratory for Physical Sciences at the Microscale (HFNL)

The following rules are formulated for the purpose of further improving the training quality of postgraduates at Hefei National Laboratory for Physical Sciences at the Microscale (HFNL) and strengthening the academic management and training process:

- I. The program duration and courses for postgraduates shall be managed in accordance with the relevant USTC regulations.
- II. Dissertation prospectus. The dissertation prospectus shall be generally carried out in the third semester after the enrollment of postgraduates, or the first semester after transfer to the doctoral program.
- III. Annual progress report. A postgraduate who has been transferred to the doctoral program in the fourth semester after enrollment shall make an annual progress report every academic year from the sixth semester. A doctoral candidate who has obvious difficulty in completing his studies may be transferred to the master's program, and award of the degree shall be with reference to the requirements for a master's degree.
- IV. Academic lectures. During the doctoral program, a doctoral candidate shall attend at least 10 academic lectures and submit the summary of the academic lecture to the Supervisor and HFNL's Registrar within 3 days after the lecture; attend at least one international academic conference (oral presentation or poster of paper) or take one course taught in English in the third semester; and have experience in academic paper presentation at a formal academic conference or a postgraduate academic forum with the relevant supporting materials submitted promptly to HFNL's Registrar.
- V. Transfer and advance application to a doctoral program. Generally, a master's candidate may transfer to the doctoral program upon passing the doctoral qualifying examination organized by the HFNL in the fourth semester after enrollment and meeting the of the master's degree graduation requirements for courses and academic

credits. A master's candidate may apply for the doctoral program in advance if his or her weighted average score for the basic courses is not lower than 75.

VI. The requirements for publication of paper for award of degree are as follows:

If a postgraduate changes Supervisor, the paper(s) published with his or her former Supervisor as the first author shall not be recognized by the HFNL degree subcommittee.

In order to encourage the publication of interdisciplinary academic papers and that in different disciplines (defined according to the first-level discipline or between theory and experiment), a postgraduate, as the co-first author of the academic paper, may be regarded as the first author upon written confirmation of contribution by the Supervisor.

#### 6.1 Requirements for master's degree application:

A master's candidate is eligible to apply for a master's degree upon meeting any of the following prerequisites:

(1) As the first author (except for the Supervisor's signature) and USTC as the first signed institution, has at least one research academic paper related to the thesis published or accepted by a foreign or domestic mainstream journal or a core journal recognized by the HFNL degree subcommittee; or obtained an invention patent as the first inventor (except for the Supervisor's signature) with the patent application officially disclosed or the patent certificate issued. Credit requirements shall be implemented according to USTC regulations.

(2) Published an academic paper in a Zone Q2 or above journal as the first or second co-first author;

(3) Won a state-level scientific research achievement award (ranked among the top five) or a provincial or ministerial-level sci- scientific research achievement award (ranked among the top three);

(4) Published an academic monograph (among the first three authors and independently contributed a total of more than 25,000 words).

(5) The domestic and international mainstream journals refer to SCI and EI journals;

(6) A paper presented at an international academic conference, if collected in the conference proceedings or published in the journal of a university with a graduate school, is equivalent to one paper published in a core journal.

(7) The course scores, program duration, and thesis or dissertation as well as review and defense of the paper shall be governed by the relevant USTC regulations.

## 6.2 Requirements for doctoral degree application:

1. A doctoral candidate is eligible to apply for a doctoral degree upon meeting any of the following prerequisites:

(1) As first author (except for the Supervisor's signature) and USTC as the first signed institution, has at least two academic papers related to the dissertation published or accepted by the foreign or domestic mainstream journals, including one paper published in a foreign or domestic high-level journal.

An paper published in any of the following major journals of the American Physical Society (APS) and the American Chemical Society (ACS) is equivalent to one paper in a foreign or domestic high-level journal:

Physical Review series, Surface Science, Journal of Applied Physics, Journal of Physics, Condens Matter, Journal of Physical Chemistry series, Review of Scientific Instruments, and Journal of Chemical Physics.

(2) As the first author (except for the Supervisor's signature) and USTC as the first signed institution, has at least one research academic paper related to the dissertation published or accepted by any of the following journals:

Nature (including its sub-publications), Science, PNAS, Physical Review Letters, Journal of the American Chemical Society, Angewandte Chemie-International Edition, and Advance Materials.

(3) A candidate, as the second co-first author and USTC as the first signed institution, who has published an academic paper in Cell (including its sub-journals), Nature (including its sub-journals) or Science, and upon approval by the Supervisor with a written report stating the contribution of the candidate to the paper, may be deemed to have met the paper publication requirements for degree application.

(4) As the second co-first author and USTC as the first signed institution, published an academic paper in PNAS, Physical Review Letters, Journal of the American Chemical Society, Angewandte Chemie-International Edition or Advance Materials. The paper, upon approval by the Supervisor with a written report stating the contribution of the candidate to the paper is equivalent to one academic paper published in a high-level foreign or domestic journal.

(5) In addition to the journals and related policies stipulated by the HFNL degree subcommittee, an academic paper, a doctoral candidate who has co-authored (among the first three authors) a paper published in a Zone Q1 mainstream domestic or foreign journal as the second author, is regarded as having published a paper in a Zone Q2 journal, and another paper shall be required to be published in a mainstream journal with the doctoral candidate as the first author; and if as the third co-first author, he or she is regarded as having a paper published in a mainstream journal, and another paper shall be required to be published in a high-level domestic or foreign journal with the doctoral candidate as the first author. Any academic paper with the doctoral candidate as co-first author subsequent to the third shall not be recognized.

(6) A doctoral candidate in Life Science shall meet one of the Items (1), (2) (3) and (4) above, or have one academic paper related to the dissertation published or accepted to publish in a foreign or domestic high-level biomedical journal (according to the CAS classification of disciplines), with the doctoral candidate as the first author (the Supervisor is not counted) and USTC as the first institution.

2. Other requirements shall be governed by the General Provisions. The specific number of published papers shall be determined by the Supervisor, but shall not be less than that prescribed by the provisions.

3. The course scores, program duration, and thesis or dissertation and its review and defense shall be governed by the relevant USTC regulations.

VII. The criteria shall be implemented from June 2020. Any unspecified matters related to the thesis or dissertation shall be decided by the HFNL degree subcommittee.

## Catalog of Domestic Journals

序号	刊 名	主 办 单 位
1	量子光学学报	量子光学专业委员会, 山西省物理学会
2	原子与分子物理学报	中国物理学会原子分子专业委员会, 四川大学
3	低温物理学报	中国物理学会低温物理专业委员会, 中国科技大学
4	核技术	中国核学会, 上海应用物理研究所
5	电子科学学刊	中国科学院, 中科院电子学研究所
6	电子测量与仪器学报	中国电子学会, 中国仪器仪表学会
7	发光学报	中国物理学会发光分科学会, 中科院长春光学精密机械与物理所
8	中国科学基金	国家自然科学基金委
9	化学通报	中国化学会
10	色 谱	中科院大连化学物理研究所
11	影像科学与光化学	中科院理化技术研究所, 中国感光学会
12	分子催化	中科院兰州化学物理研究所
13	分析测试学报	中国分析测试协会
14	功能高分子学报	华东理工大学
15	膜科学与技术	国家石油和化学工业局
16	高分子通报	化学工业出版社
17	分析科学学报	武汉大学, 北京大学, 南京大学
18	环境化学	中科院水土保持与生态环境研究中心
19	波谱学杂志	中国物理学会波谱学专业委员会, 中科院武汉物理与数学研究所
20	电子显微学报	中国物理学会