



The 7th "Zhi-Hong" International Summer School of Advanced Materials (ISS-AM) -Advanced Functional Materials

Time:
July 3-15, 2022
Venue:
Online

Program Overview

About ISS-AM

The "Zhi-Hong" International Summer School of Advanced Materials (ISS-AM) is organized by School of Materials Science and Engineering (SMSE) at Shanghai Jiao Tong University (SJTU), aiming at promoting the interactive cultural and academic exchange between top-level scholars and students from all over the world. The ISS-AM is named as "Zhi-Hong" not only to commemorate the school founder Professor Zhihong Zhou, but also to inspire the summer school participants since "Zhi-Hong" in Chinese means "being ambitious". "Zhi-Hong" ISS-AM is a two-week program with one theme every year.

"Advanced Functional Materials" will be the theme of the program in 2022.

In the last six years, the 1st to 6th "Zhi-Hong" ISS-AM were organized successfully. 135 foreign students from over than ten countries and 158 outstanding Chinese students have been selected to attend the past six events. Many renowned experts and scholars from SJTU and foreign institutes, e.g. Harvard University, Northwestern University, The Ohio State University, University of Cambridge, KTH Royal Institute of Technology, Osaka University, Monash University, have been invited to give academic lectures. It's worth mentioning that we have held two online summer school in 2020 and 2021 successfully. We'll explore more interesting online activities and better organization.

Introduction to SJTU

- Since its founding in 1896, Shanghai Jiao Tong University (SJTU) has become a comprehensive, research-oriented, and internationalized top university in China.
- SJTU was ranked No. 50 in 2021 QS world university rankings.
- SJTU was ranked No. 59 in 2021 ARWU.
- The number of majors at SJTU listed in ESI's top 1% is 21 in 2020.

Introduction to SMSE

was **ranked No. 20** in 2021 QS world university ranking.

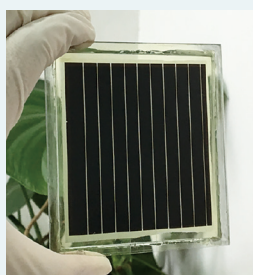
was **ranked No. 1** by the Ministry of Education in 2003.

Materials Science and Engineering (MSE) program in SJTU

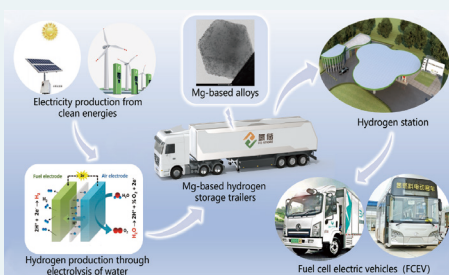
has been consistently remained in national **top 5** in last ten years.

was authorized as the **first-class** National Key Discipline in 2007.

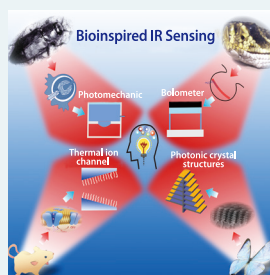
has been listed in world **top 1%** discipline of ESI for more than 10 years.



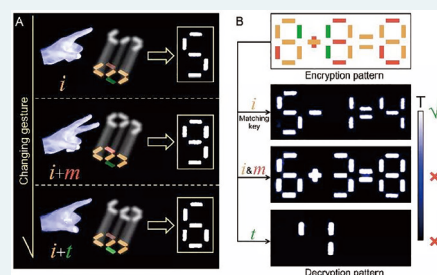
Low-cost highly efficient and stable perovskite solar cells



Mg based hydrogen storage materials and applications



Bioinspired Thermal Detection



The gesture as a matching key for information decryption

ACTIVITIES

1) Online lectures

Lectures about advanced functional materials will be given online by distinguished professors from overseas universities and SJTU.

2) Poster shows

All participants are required to prepare an academic poster in advance. During the summer school, the most popular poster and the best poster will be voted to pick out.

3) Online trips

Live broadcasts of campus tour, Shanghai city tour, and visiting the research labs affiliated to SMSE at SJTU will be arranged.

4) Student seminars

All participants will be teamed up into several study groups. Students in each group will work together on a topic. Groups will make a final competition with each other through group presentation. The faculty committee will choose the best group and present the group members "Award of Excellent Team".

5) Culture activities

Online culture experiences, such as Chinese culture activities and culture festival.

6) Special program

Special program will be interspersed before or after the lectures, including interesting games and enjoyable live shows.

ELIGIBILITY

Graduate and senior undergraduate students who are majored in Materials Science and Engineering (MSE), or any other majors related to MSE, such as mechanical engineering, physics, and chemical engineering. A total of 50 domestic and overseas participants will be recruited.

ABOUT FACULTY

The lecturers will be from:

USA: Harvard University, Northwestern University

EU: KTH Royal Institute of Technology (Sweden), TU Dresden (Germany)

UK: University of Cambridge

China: Shanghai Jiao Tong University

For most updated list of confirmed lectures, please visit the website of "Zhi-Hong" ISS-AM: <https://smse-iss.sjtu.edu.cn/>



FEES & SCHOLARSHIPS

Tuition: 3000 RMB

"Zhi-Hong Excellence" Scholarships

Amount: 3000 RMB/person

Number: more than 90% of the enrolled participants

HOW TO APPLY

For international students: Apply on the website <http://apply.sjtu.edu.cn>. Please provide GPA (e.g. **/100), Ranking (in percentage) and academic transcript online.

For Chinese students: The applications should be submitted to Ms. Renlei ZHANG by email at zh_iss@sjtu.edu.cn. The application materials include 1) application form, 2) CV, 3) academic transcripts, 4) IELTS/TOEFL/CET6 score certificate or any other certificate showing the competency of English (waived for native English speakers), and 5) a one-page personal statement.

Application deadline: **May 30, 2022**

PROGRAM AGENDA (Tentative)

Day	Time	Event
1	3-Jul, Sun	Ice-break and Teaming-up
2	4-Jul, Mon	Opening Ceremony, Lectures.
3	5-Jul, Tue	Lectures, Special Program
4	6-Jul, Wed	Lectures, Special Program
5	7-Jul, Thu	Lectures, Special Program
6	8-Jul, Fri	Online Trip
7	9-Jul, Sat	Culture Activities
8	10-Jul, Sun	Free Time
9	11-Jul, Mon	Lectures, Special Program
10	12-Jul, Tue	Lectures, Special Program
11	13-Jul, Wed	Lectures, Cultural Festival
12	14-Jul, Thu	Online Trip
13	15-Jul, Fri	Group Presentation, Awards & Closing Ceremony

All events will be arranged online.



Website

<https://smse-iss.sjtu.edu.cn/>

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