www.mse.tsinghua.edu.cn

School of Materials Science and Engineering

TSINGHUA UNIVERSITY

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SCHOOL OF MATERIALS SCIENCE AND ENGINEERING

TSINGHUA UNIVERSITY







LIN Yuanhua

Dean of School of Materials Science and Engineering Professor

Dean Remarks

Materials are the physical foundation for a strong national economy, for social progress, and for state security. As the foundation of a wide range of industries, materials have been the driving force for scientific and technological development during the evolution of human civilization. Materials science and engineering have always been infrastructural, guiding and permeable, and thus the level of materials research, together with its educational level, also reflects the comprehensive strength of a country. A key requirement therefore for Tsinghua University to achieve in its strategic objective of becoming a world-class university in the 21st century is the development of materials research and materials education to a world-class level.

Based on this goal, the guiding mission of the School of Materials Science and Engineering (SMSE) is to establish an internationally advanced-level platform including materials preparation, analysis & testing, and device research, and to strengthen cooperation with relevant academic research areas in other countries, thereby complementing each other's advantages, and driving forward progress within the materials science discipline in Tsinghua University. In addition, the school should actively take part in relevant major national research missions, as well as develop primary innovation within the state innovation system through the realization of breakthroughs in critical materials research, in techniques and devices, and in major theoretical advances and innovations. Our school also recognizes the importance of promoting cooperation with enterprises, allowing the conversion of scientific and technological achievements into productive forces, thereby resulting in great economic benefits to meet the demands of the state, of social development, and of national defense, and to promote Tsinghua University as a knowledge innovation base for internationally advanced level academic studies and basic-research findings.

Education of students is one of the most fundamental and important missions of our school. For undergraduate student education, our primary focus is on nurturing the overall ability of the students, in line with the philosophy of "deepening in foundation, broadening in vision, emphasizing in practice, and strengthening in personal quality". For graduate student education, both innovation ability and international competitiveness are emphasized, in line with a philosophy of "science as the foundation, creativity as the mission". The SMSE is dedicated to its goals of building up a faculty with top-ranking competitiveness and developing research facilities with first-class standards, thereby allowing scientific research with the highest impact to be carried out, and facilitating the development of innovative educational programs, so as to attract and support talented young students to enroll and study in our school.

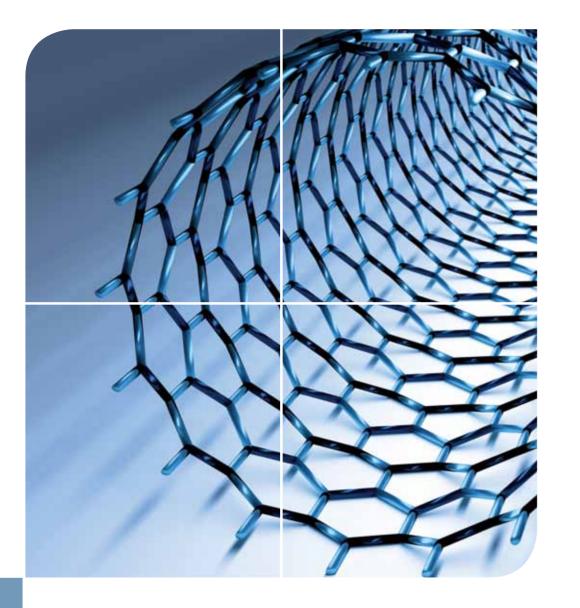
It is this spirit of "Materialist" that changes the world. Our school sincerely welcomes outstanding students and young scientists from all over the globe who are willing to devote themselves to materials science and engineering to join us and strive together for new discoveries in the world of "Materials".

Dean signature:

Jan, 2017

School of Materials Science and Engineering Tsinghua University

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Introduction of the School of Materials Science and Engineering

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The School of Materials Science and Engineering (SMSE) in Tsinghua University was founded in December, 2012, by combining the previous Department of Materials Science and Engineering and the Materials Processing division within the Department of Mechanical Engineering. The Department of Materials Science and Engineering was itself first founded in 1988 by the merger of several divisions within Tsinghua University, including the Inorganic Non-metallic Materials division from the Department of Chemistry, the Materials Physics division from the Department of Engineering Physics, and the Metallic Materials division from the Department of Mechanical Engineering.

The SMSE has a highly competitive faculty. consisting at present of 52 professors, 31 associate professors, 8 Assistant Professors, and 19 senior engineers, as well as 8 engineers/staff. With regard to educational activities we are devoted to the training of talented students with an international perspective and creative spirit, as well as with a solid theoretical understanding of materials science and outstanding research ability. Currently more than 370 students are pursuing their doctoral degrees within the School. Additionally more than 350 students are pursuing MSc degrees, with more than 470 undergraduates pursuing their bachelor degrees, including over 30 international students

A number of laboratories and centers are also hosted within the SMSE. These include the State Key Laboratory of New Ceramics and Fine Processing, the Education Ministry Key Laboratory for Advanced Materials, the Education Ministry Key Laboratory for Advanced Materials Processing Technology, the Beijing National Center for Electron Microscopy, and the Center for Testing & Analyzing of Materials of the SMSE, as well as other teaching and research institutions. In addition, the SMSE also encompasses several research centers and national production-study-research bases, including the Research Center for Bainitic Steels, the Research Center of Magnesium and Aluminum Alloys Processing Technology, the Beijing High-tech Ceramic Materials and Processing National Scientific and Technological Corporation Base, and the International Research Center of Functional Materials, appointed by Ministry of Science and Technology.

Research activities within the SMSE follow the frontiers of international science as well as supporting national strategic needs. We not only encourage original research on basic science, but also actively promote applied research to address national major scientific, technological, and industrial demands. The number of SCI-cited papers published annually has ranked first in Tsinghua University for many years, highlighting the highly productive research output of faculty members within the SMSE. Regarding both the publication output and the number of citations of published papers, the SMSE has been ranked as one of the best institutes in the world for the past 10 years according to the ISI statistics, and first in China over a continuous two year period according to the most recent national first-class discipline evaluation.In 2017, the School was ranked among the top 9 world universities for materials science, by both the US News Ranking by Subject and the QS World University Rankings by Subject.



Doctoral Candidates



Master Degree Candidates



Undergraduate students

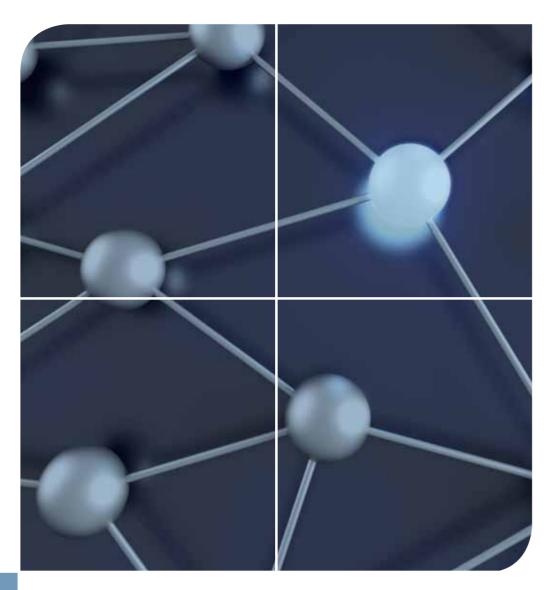


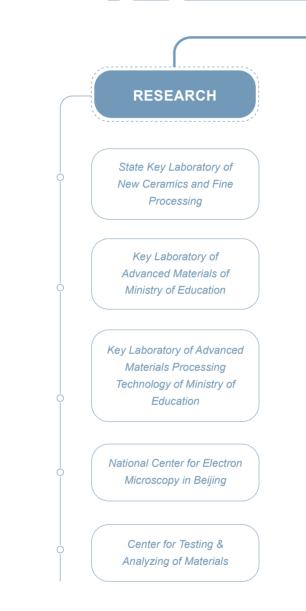
Faculty

Name	ne Research area			
Prof. CAI Qiang	Self-assembly and biomimic materials	caiqiang@tsinghua.edu.cn		
Prof. CHEN Longqing	Ferroelectric, ferromagnetic, ferroelastic and multiferroic thin films and devices; Density functional theory (DFT) calculations	lqc3@psu.edu		
Prof. DONG Hongbiao	Modelling of materials processing, solidification theory	Hongbiao.dong@gmail.com		
Prof. GAI Guosheng	Fine powder processing; particle composition and shape modification	gaigs@tsinghua.edu.cn		
Prof. GODFREY Andrew	Therm-mechanical processing of metals and micro-texture analysis	awgodfrey@tsinghua.edu.cn		
Prof. HUANG Zhenghong	New carbon materials; adsorbents; photocatalyst; carbon electrodes	zhhuang@tsinghua.edu.cn		
Prof. JING Tao	Computer aided design of foundry technology and numerical simulation of solidification process	jingtao@tsinghua.edu.cn		
Prof. KANG Feiyu	New carbon materials; materials for energy storage/conversion; materials for environmental protection; heat conduction material and thermal management	fykang@tsinghua.edu.cn		
Prof. LAI Wensheng	Materials modeling and simulation	wslai@tsinghua.edu.cn		
Prof. LI Hengde	Biomaterials; Ion beam metallurgy	lhd-dms@tsinghua.edu.cn		
Prof. LI Jing-Feng	Piezoelectric and thermoelectric materials and their microfabrication technology	jingfeng@tsinghua.edu.cn		
Prof. LI Longtu	Ferroelectric; Piezoelectric and functional ceramics	llt-dms@tsinghua.edu.cn		
Prof. LI Ming	Polymer composites			
Prof. LI Wenzhen	Metal matrix nanocomposites	zqqlwz@tsinghua.edu.cn		
Prof. LI Yanxiang	Porous metals; Solidification and cast alloys	yanxiang@tsinghua.edu.cn		
Prof. LI Zhengcao	Radiation effects; Life management and safety of nuclear energy systems; Nano/thin-Film Materials	zcli@tsinghua.edu.cn		
Prof. LIN Hong	Nanomaterials; Perovskite/Quantum dot/Dye-sensitized solar cells	hong-lin@tsinghua.edu.cn		
Prof. LIN Yuanhua	Functional composite materials	linyh@tsinghua.edu.cn		
Prof. LIU Wei	Interaction of special physics fields and materials; Advanced metallic materials	liuw@tsinghua.edu.cn		
Prof. LIU Baicheng	Advanced Materials Processing Technology, Integrated Computational Materials Engineering.	liubc@tsinghua.edu.cn		
Prof. LIU Baixin	Computational materials science; lon-solid interactions and ion beam modification of materials; Thin film and nuclear materials	dmslbx@tsinghua.edu.cn		
Prof. Nan Cewen	Functional materials	cwnan@tsinghua.edu.cn		
Prof. PAN Feng	Thin films and devices	panf@tsinghua.edu.cn		
Prof. PAN Wei	High performance ceramics; Materials chemistry and physics	panw@tsinghua.edu.cn		
Prof. SHEN Houfa	Modeling and simulation of solidification	shen@tsinghua.edu.cn		
Prof. SHEN Zhijian	Advanced ceramic materials; Biomaterials and nanomaterials	shenzhijian@tsinghua.edu.cn		
Prof. TANG Zilong	Functional ceramics	tzl@tsinghua.edu.cn		
Prof. WANG Chang-an	Structural ceramics and ceramic matrix composites; Porous ceramics	wangca@tsinghua.edu.cn		
Prof. WANG Xiaohui	Functional ceramics	wxh@tsinghua.edu.cn		
Prof. WANG Xiumei	Biomaterials; Tissue engineering and regenerative medicine	wxm@tsinghua.edu.cn		
Prof. WEI Dan	Micromagnetic theory for Applied Magnetism, Recording Physics	weidan@tsinghua.edu.cn		
Prof. WENG Duan	Ecomaterials; Rare earth catalytic materials	duanweng@tsinghua.edu.cn		
Prof. XIE Zhipeng	Engineering and structural ceramics	xzp@tsinghua.edu.cn		
Prof. XIONG Shoumei	Light metals and processing technology; Maro/micro modeling and simulation of casting processes	simulation of casting processes smxiong@tsinghua.edu.cn		
Prof. XU Qingyan	Modeling and simulation of materials processing technology; metal solidification/casting; new casting materials and processes	scjxqy@tsinghua.edu.cn		
Prof. YANG Jinlong	Preparation technology of fine ceramics with complex parts; hollow/solid micro/nano-sphere	jlyang@tsinghua.edu.cn		
Prof. YANG Zhigang	Metallic materials	zgyang@tsinghua.edu.cn		

Name	ame Research area		
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Prof. YUE Zhengxing	Functional Ceramics	yuezhx@tsinghua.edu.cn	
Prof. ZHANG Wenzheng	Microstructure development during solid state phase transformations and related applications	zhangwz@tsinghua.edu.cn	
Prof. ZHANG Zhengjun	Thin films; Plasmonic materials; Low dimensional materials	zjzhang@tsinghua.edu.cn	
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Prof. ZHONG Minlin	Laser materials processing and micro-nano fabrication	zhml@tsinghua.edu.cn	
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Prof. ZHU Hongwei	Nanomaterials	hongweizhu@tsinghua.edu.cn	
Prof. ZHU Jing	Electron Microscopy in Material Science and Engineering	jzhu@tsinghua.edu.cn	
Prof. ZHUANG Daming	Solar cell devices and functional thin films	dmzhuang@tsinghua.edu.cn	
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Assoc. Prof. NING Xiaoshan	Bonding of ceramics to metal, interface of ceramics and metal	caike@tsinghua.edu.cn	
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Assoc. Prof. WEI Jinquan	Nanomaterials; femto- and attolitre science & technology	jqwei@tsinghua.edu.cn	

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Assoc. Prof. WU Xiaodong	Environmental catalytic materials	wuxiaodong@tsinghua.edu.cn	
Assoc. Prof. ZENG Fei	Functional thin films for brain inspired computing and mobile communication	zengfei@tsinghua.edu.cn	
Assoc. Prof. ZENG Zhaoqiang	Advanced structural ceramics, Lithium ion battery	zengzq@tsinghua.edu.cn	
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Assist. Prof. LV Ruitao	Two-dimensional materials; Electrochemical catalysis; Energy conversion/storage devices	lvruitao@tsinghua.edu.cn	
Assist. Prof. MA Jing	Multiferroic and functional oxide materials	Ma-jing@tsinghua.edu.cn	
Assist. Prof. RAN Rui	Eco-materials; Environmental catalytic materials	ranr@tsinghua.edu.cn	
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Assist. Prof. WAN Chunlei	Thermoelectric materials, thermal barrier coating materials, intercalation compounds	wancl@tsinghua.edu.cn	
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Assist. Prof. YIN Lan	Biodegradable electronics, grid scale energy storage	lanyin@tsinghua.edu.cn	

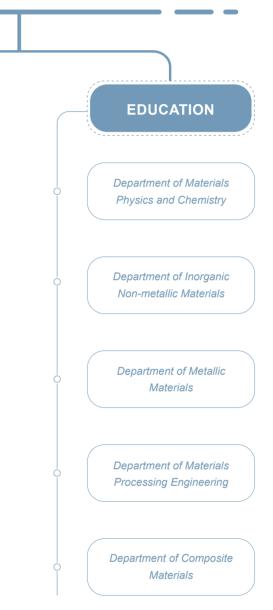


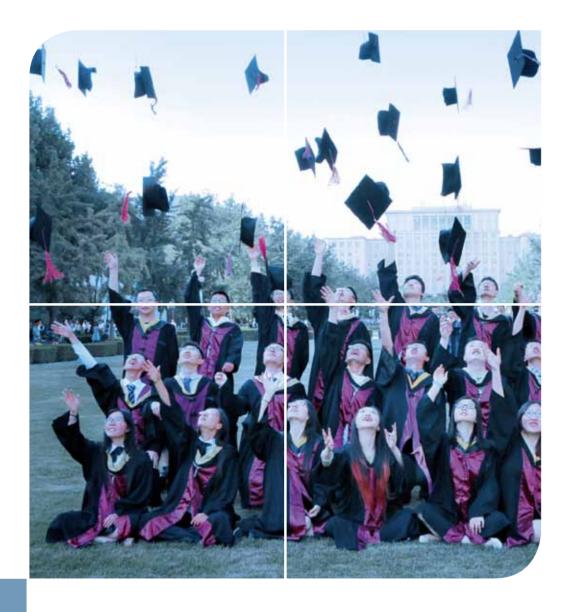




Administrative Structure

SCHOOL OF MATERIALS SCIENCE AND ENGINEERING





Education

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The School of Materials Science and Engineering offers undergraduate and graduate programs with high quality education and world-class materials research, to prepare students for professional careers in a wide range of industries, as well as in academia.



The undergraduate program has a current student body of about 520. The teaching philosophy is to offer an education program giving students a solid background in mathematics, physics and chemistry, and to provide an understanding of the underlying principles of materials science, including the relationships between composition, structure, properties and processing. The teaching curriculum also emphasizes the learning of practical skills to identify and solve engineering design problems. The curriculum builds on core foundational courses as well as a variety of laboratory classes which offer hands-on laboratory experience with access to stateof-the art equipment. Bilingual courses such as "Fundamentals of Materials science" and "Electron Microscope Analysis", are also provided, as well as a series of practical training courses, including summer programs on microelectronics and machine-shop skills. Students also have the opportunity to carry out research with faculty members through the Student Research Training (SRT) program, and to participate in exchange programs with a range of overseas universities including those in France, Japan, Canada, Taiwan and Hong Kong.

The graduate program provides education leading to a degree either of Master of Science, Master of Engineering, or Doctor of Philosophy in Materials Science and Engineering, with an average yearly intake of about 120 MSc students and 60 PhD students. The program emphasizes multidisciplinary research in a variety of areas, including metals, ceramics, composites, polymers, biomaterials, and electronic materials. The objective is to allow young scientists and engineers to contribute to cutting-edge research, while at the same time providing a broad and deep understanding of materials science and engineering, thereby giving graduates the intellectual and practical tools necessary for their future research careers in either industry or academia. The program also offers a series of fundamental materials courses, as well as a doctoral forum and academic salon, allowing students to engage in both domestic and international academic conferences. A joint master's program with the Tokyo Institute of Technology, and a joint doctoral project with Tohoku University provide further opportunities for students to broaden their research perspective and educational experience.



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The School of Materials Science and Engineering (SMSE) is dedicated to the pursuit of creative, interdisciplinary, and high-impact research covering a wide range of topics, including information technology materials, biomedical materials, energy and environmental materials, nonequilibrium materials, structural ceramics, advanced metallic materials, composite materials, and nuclear materials.

5 Scientific Research Summary

The QS World University Rankings by Subject (2017)

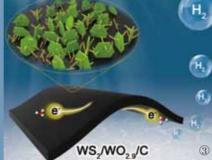
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2017 -		trees C	By toolion 🐨	Ŧ	Rate	
1	1417	Massachusetts Institute of Technology (MIT)	-		5*	
2	Sector .	Stanford University	-		5*	
3	Behder	University of California, Berkeley (UCB)				
4	8	University of Cambridge	-		5*	
5	₩	Harvard University			5*	
6	۲	University of Oxford	88		5*	
7	*	Nanyang Technological University, Singapore (NTU)	-		5#	
8	NUS	National University of Singapore (NUS)	-			
9	6	Tsinghua University	-			
10	.0.	Northwestern University				

The SMSE aims to carry out cutting edge research at the forefront of materials science, while at the same time providing support for both domestic industry and national strategic research projects. Over the past ten years, faculty within the SMSE have received many awards and published more than 300 peer-reviewed SCI papers annually, ranking #1 in terms of academic output at Tsinghua University. More than 40 national patents are filed and issued within the School every year.

The SMSE consistently ranks #1 in evaluation of national first-level subjects. In 2017, the School was ranked among the top 9 world universities for materials science, by both the US News Ranking by Subject and the QS World University Rankings by Subject.







MLCC tape-casting pilot line

2

Ultrasensitive Acoustic Pressure Sensor Based on Few-Layer MoS2

3

Noble-Metal-Free Hybrid Membrane for Highly Efficient Hydrogen Evolution

The main research areas in the State Key Laboratory of New Ceramics and Fine Processing include:

Electronic ceramics

Functional ceramic composites

High-temperature

structural ceramics

Advanced processing of ceramics

New energy and environmental mate

Bio-ceramics

The State Key Laboratory of New Ceramics and Fine Processing

The State Key Laboratory of New Ceramics and Fine Processing was founded by the central government in 1991. Currently, Prof. PAN Wei is the director of the lab, and Prof. XUE Qikun, member of the Chinese Academy of Science, is the chairman of the Academic Committee. The lab possesses a comprehensive set of advanced facilities for the preparation and characterization of ceramics.

The lab is devoted to the development of fundamental and pioneering science and technology of advanced ceramics, and to exploration of frontier research in the area of materials science. Since its establishment the lab has made many pioneering and distinctive achievements and has played a leading role in many aspects of ceramic science and application research. The lab also hosts the National Scientific and Technological Corporation Base for Beijing Hightech Ceramic Materials and Processing. International academic exchanges and collaborations are vigorously promoted in the lab. As a result the lab maintains a high level of exchange and cooperation through joint projects with universities, research institutes and companies in many countries and regions. Every year the lab also supports open projects for accepting visiting researchers both from within China and from overseas.

AI AI HfO2 Ionic liquid P-type MS Au Cr Si substrate



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Electric field control of the room-temperature ferromagnetism in the p-type a-CFTBO magnetic semiconductor originating from a ferromagnetic metallic glass 3

The main research areas in the Key Laboratory of Advanced Materials of Ministry of Educationinclude

Interaction of ion-beams with

Formation and evolution of

Information and electronic

| New polymer materials

Biomaterials and bionic materials

| Nuclear materials

| Ecomaterials

material microstructure

New metal materials

materials

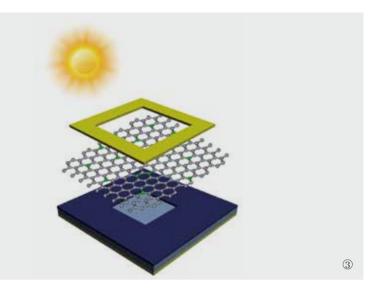
materials

The Key Laboratory of Advanced Materials of Ministry of Education

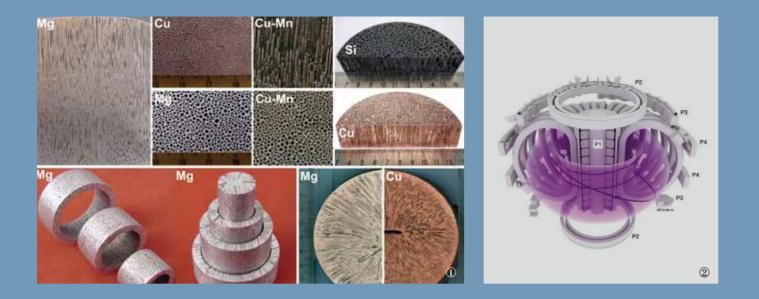
The Key Laboratory of Advanced Materials of Ministry of Education was founded in 1993. Currently, Prof. ZHANG Zhengjun is the director of the lab, and Prof. ZHUJing is the chairman of the Academic Committee. The lab possesses a comprehensive set of advanced facilities for the preparation and characterization of a wide range of advanced materials.

At present, materials science, material physics and chemistry, the nuclear fuel cycle and related materials, and condensed matter physics, all of which belong to the lab, are national key disciplines. Over the years the lab has established itself as a multi-disciplinary research platform for the development of cross-disciplinary advanced materials.

The influence of the lab both in the domestic and international materials field is continually being strengthened, supported by the regular organization of international academic exchanges and collaborations. As a result the lab currently maintains routine exchange and cooperation in joint projects with a range of universities, research institutes and companies in many countries and regions. The lab also supports open projects for accepting visiting researchers both from within China and from overseas.



Graphene/Silicon Heterojunction Solar Cell for Efficient Photovoltaic Conversion



Regular porous metals by directional solidification

Plasma facing materials in nuclear fusion plants

2

The main research areas in the Key Laboratory of Advanced Materials Processing Technologyinclude

- Integrated Computational Materials Engineering
- Porous metals and New Allovs Processing
- Casting and Solidification
- Laser Materials Processing
- Solar Cell Devices
- Metallic Glasse
- Processing
- Nano Carbor Processingw

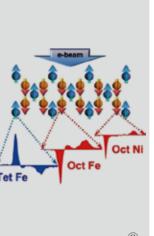
Key Laboratory of Advanced Materials Processing Technology

The Key Laboratory of Advanced Materials Processing Technology, Ministry of Education, was foundedin 2005. Currently, Prof. ZHUANG Daming is the director of the lab, and Prof. LIU Baicheng, member of the Chinese Academy of Engineering, is the chairman of the Academic Committee. There are 80 research staff in the lab, including 30 full professors (two of which are members of the Chinese Academy of Science and Chinese Academy of Engineering), 31 associate professors and 19 assistant professors or engineers. The lab possesses a comprehensive set of advanced facilities for the preparation, processing, and characterization for various materials, worth more than 90 million RMB.

At present, the materials processing engineering discipline, which belongs to the lab, is a national key discipline. The lab has become a multi-disciplinary research platform for a range of advanced materials processing technologies, including casting and solidification, welding and joining, forging and forming, laser processing, and processes for solar energy devices, metallic glasses, and nano-carbon materials.

The lab's academic reputation in the materials processing field, both domestically and internationally, is continually being enhanced, supported by the organization of range of international academic exchanges and collaborations. As a result the lab maintains routine exchange and cooperation in joint projects with a range of universities, research institutes and companies in many countries and regions. In recent years, over 200 papers have been published annually, and each year the lab supports 5-10 open projects for accepting visiting researchers both from within China and from overseas.





 Titan Themis G2, Double-Aberration-Corrected
Transmission Electron Microscope

Quantitative experimental determination of site-specific magnetic structures by transmitted electrons

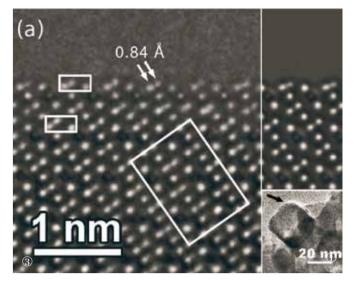
The National Center for Electron Microscopy in Beijing

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The National Center for Electron Microscopy in Beijing was founded in 2006, with funds from The Ministry of Science and Technology of China, The Ministry of Education of China and the Beijing Municipal Science and Technology Commission. The center provides an open, innovational and high-level national scientific research infrastructure.

Within the center there are six transmission electron microscopes (including two aberrationcorrected TEMs), three scanning electron microscopes, a focused ion beam system, and a full set of sample preparation facilities. The guiding principle of the center, based on the goal of supporting high-level scientific research, is to offer high-quality technical service and to promote the sharing of resources, equipment, and knowledge in the field of electron microscopy.

In modern society, the study of the fine structure of materials is more than just a scientificcuriosity, because the fine structures of materials largely determine their properties. Accordingly the center is devoted to the development and application of advanced electron microscopy techniques to study the structure and properties of materials at high-spatial resolution, building on its achievement of initiating sub-Angstrom scale microscopy in China.



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Subangstrom measurement of oxide surface



X-ray fluorescence spectrometer

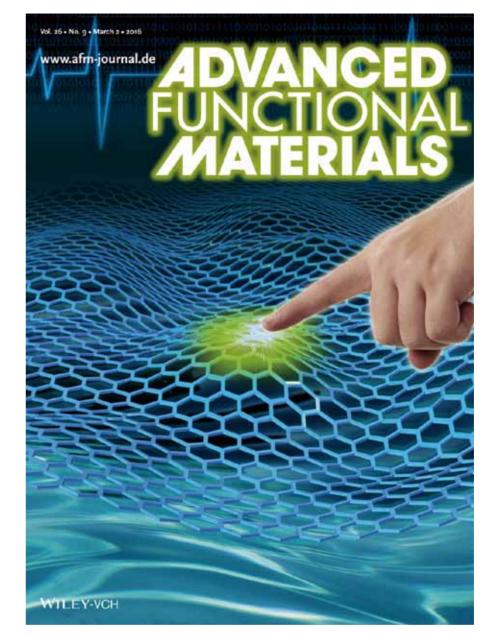
X-ray diffractometers

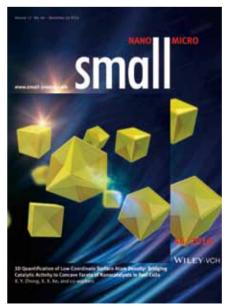
Center for Testing & Analyzing of Materials, School of Materials Science and Engineering

The Center for Testing & Analyzing of Materials (CTAM) was founded in 1980 as the Center for Testing & Analyzing of Materials of Institute of Materials Science of Tsinghua University. The CTAM was renamed as the Center for Testing & Analyzing of Materials, School of Materials Science and Engineering, Tsinghua University in 2012.

The center currently supports more than thirty large-scale precision analytical instruments, with a particular strength in X-ray diffraction facilities, placing it in a leading position in the country compared to similar labs in terms of the number of instruments and their function, the degree of openness of access, and the development of in-house technology. For many years the center has provided an extensive range of training and open services. In addition to the X-ray diffraction equipment the center contains a range of advanced instruments, including a physical properties measurement system(PPMS), a superconductivity quantum interference device-vibrating sample magnetometer (SQUID-VSM), a vibrating sample magnetometer (VSM), an X-ray photoelectron spectrometer (XPS), an Auger electron spectrometer (AES), an electron probe micro-analyzer (EPMA), a high-temperature synchronous thermal analysis system, a thermal analysis – Infrared - MS system, an X-ray fluorescence spectrometer, a quenching & deformation dilatometer, and a nano-indenter.

The Center for Testing & Analyzing of Materialshas become an open platform for testing and analysis, providing services to researchers, scientists, and engineers both within and outside Tsinghua university, and is one of four university-level test analysis platforms. The main task of the CTAM is the testing and analysis of the structure, composition and properties of a wide range of materials.

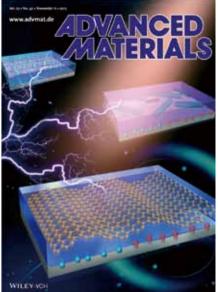


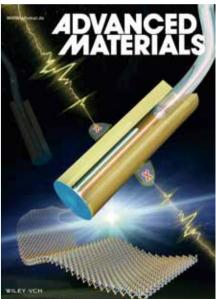


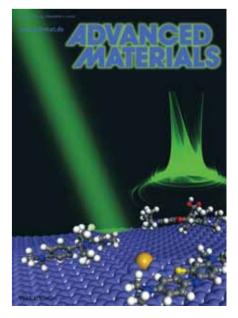


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SCIENTIFIC RESEARCH / 18



International Vision

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The School of Materials Science and Engineering (SMSE) has established an extensive worldwide collaboration network, covering both scientific research and student exchange programs, with many top universities, including those in the USA, the United Kingdom, France, Italy, Germany, Spain, Russia, Japan, the Republic of Korea, Singapore, Hong Kong, and Taiwan.

Joint Master's Program with the Tokyo **Institute of Technology**





students join this program



students have already graduated

The joint Master's program between Tsinghua University (THU) and the Tokyo Institute of Technology (TIT), established in 2004, allows the exchange every year of a number of master program students between THU and TIT. Students enrolled in the joint program are directed by advisors from both institutions and have the opportunity to be awarded MSc degrees from both THU and TIT. The aim of the joint program is to combine the advantages of both institutions in student training, and to foster the education of talented graduates, with broad knowledge and expertise in different research fields. At the same time students enrolled in this joint program have the opportunity to share their knowledge of Chinese and Japanese cultures and traditions, as well as to improve their language skills in Japanese, English and Chinese.

Students enrolled in the joint program from TIT and THU study for a total of 2.5 years and 3 years, respectively. After finishing course-work requirements in their own university, students are sent to the partner university to carry out a program of scientific research and study for one year. The focus with the SMSE for this joint program is on projects related to nanotechnology. To date more than 60 students have been enrolled in the joint program, with 40 of these already graduated. The joint program significantly enhances the international outlook of participating students as well as their innovation and problem solving skills.





Each year the SMSE hosts visits from overseas guests



International Exchange and Cooperation

Each year the SMSE hosts more than 200 visits from overseas guests, many of whom deliver academic talks and take part in seminars and workshops at Tsinghua University. Similarly, between 300 and 400 visits abroad are made by faculty and students each year to participate in international conferences and exchange programs, and to pursue research collaborations. Additionally each year the SMSE hosts academic exchange activities for more than 10 foreign students, who carry out research for periods of between a few weeks and several months.

Our faculty members are also active internationally with regard to professional activities, with a total of more than 30 faculty members serving as international editorial board members, committee members, and members of advisory boards. Emphasis is also placed on international research collaboration. In recent years faculty members within the SMSE have participated in more than 30 collaborative research projects with top universities and companies from countries including the USA, Japan, France, Germany, Sweden, and the Republic of Korea.





International Academic Symposia

The SMSE takes an active role in supporting international academic and educational collaboration by participating in the organization of a number of international academic symposia, including those withuniversities and institutes in the USA, Italy, Germany, Spain, Japan, the Republic of Korea, and Singapore.











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Students within the School of Materials Science and Engineering have the opportunity to take part in a wide range of recreational and public service activities.

These include the annual student festival gala and talent shows, as well as a variety of volunteer activities, and all kinds of sporting events. The school pays close attention to the support of extra-curricular activities and encourages student personal development by participation or organization of such activities. A number of students making an outstanding contribution to either community support or extra-curricular activities are recognized each year by the School of Materials Science and Engineering.



Student Activities

