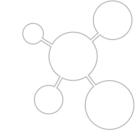




复旦大学高分子科学系

復 2 大 學 高分子科学系

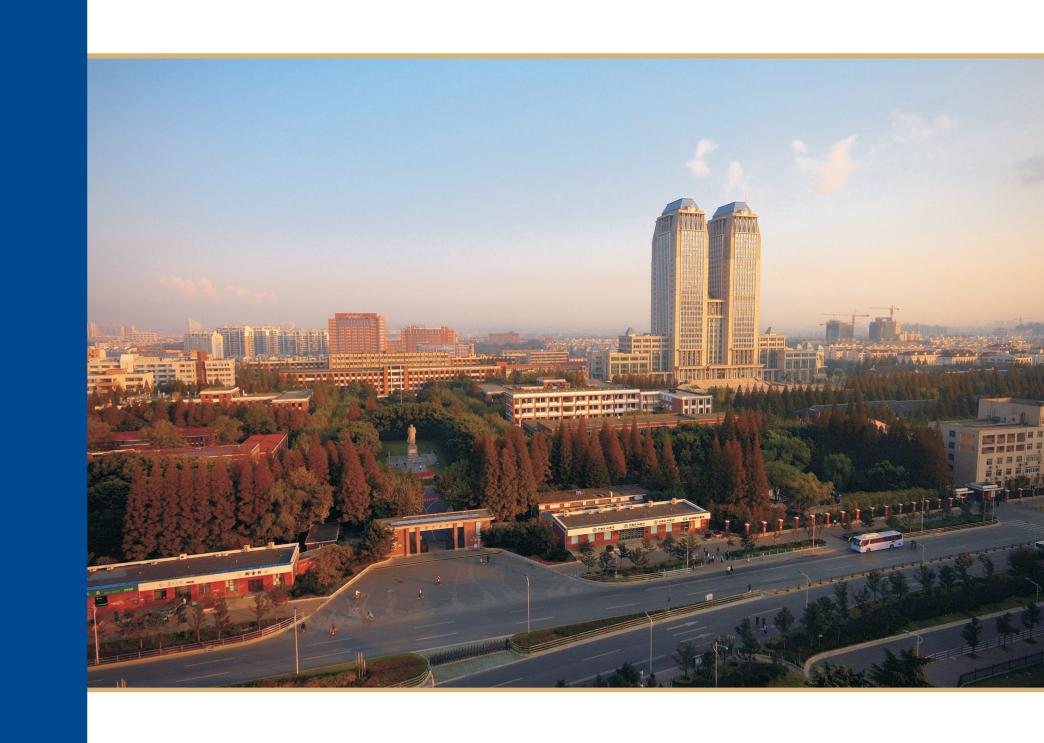
DEPARTMENT OF MACROMOLECULAR SCIENCE FUDAN UNIVERSITY



### 高分子科学系

DEPARTMENT OF MACROMOLECULAR SCIENCE FUDAN UNIVERSITY







复旦大学创建于1905年,原名复旦公学,是中国人自主创办的第一所高等院校,创始人为中国近代知名教育家马相伯。校名"复旦"二字选自《尚书大传•虞夏传》中"日月光华,旦复旦兮"的名句,意在自强不息,寄托当时中国知识分子自主办学、教育强国的希望。1959年成为全国重点大学。

2000年,复旦大学与上海医科大学合并,成立新的复旦大学,进一步拓宽了学校的学科结构,办学实力进一步增强,已经发展成为一所拥有哲学、经济学、法学、教育学、文学、历史学、理学、工学、医学、管理学、艺术学等11个学科门类的综合性研究型大学。

Fudan University was established in 1905 as Fudan Public School. It was the first institution of higher education to be founded by a Chinese person, renowned modern educator Ma Xiangbo. The school's name was chosen from the "Biography of Yuxia" in the *Classic of History*, where the two characters fù复("return") and dàn旦("dawn") are extracted from the famous lines "Brilliant are the sunshine and moonlight, again the morning glory after the night", signifying continuous self—renewal, and expressing the hope that China could become a country with a strong higher education system run by Chinese intellectuals. In 1959, Fudan University became one of the first National Key Universities.

In the year of 2000, Fudan University was merged with Shanghai Medical University, and has since developed into a comprehensive research university with a broad spectrum of disciplines, including Philosophy, Economics, Law, Education, Literature, History, Science, Engineering, Medical Science, Management, and Arts.



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#### Overview

#### 学科历史

复旦大学是我国最早成立高分子教研室(1958)的高校之一,是国 家首批建立的高分子化学与物理专业硕士点、博士点(1981)和博 士后流动站(1985)。1993年4月,复旦高分子学科独立建制,成 立高分子科学系和高分子科学研究所。

#### 师资队伍

目前教职员工69人,其中专任教师45人(教授/研究员27人,副教授 /青年研究员15人,讲师/青年副研究员3人),有实验技术人员12 人,管理与学生工作人员12人。

#### 科学研究

在高分子凝聚态物理、大分子自组装、天然及生物大分子、能源高 分子材料等方面,形成了复旦的研究特色和优势。

### Discipline History

Fudan University is one of the first universities to establish Macromolecular Science Education and Research Center (established in 1958) in China, and is among the first institutes to award Master, Ph.D. degrees and postdoctoral positions in Macromolecular Chemistry and Physics. In April 1993, the department was established as an independent department, and the Research Institute of Macromolecular Science was established in Fudan University.

#### Faculty

The department currently hosts 69 faculties and staffs, among which there are 45 faculties (27 professors, 15 associate professors, 3 lecturers), 12 laboratory technicians, and 12 administration staffs.

#### Scientific Research

We lead state-of-the-art research in the fields of polymer condensed matter physics, macromolecular self-assembly, natural and bio-macromolecules, and energy polymer materials, etc., and have made wide spread impact globally.







#### 学生培养

目前在读各类学生458人,具有完备的本科生培养、学术性硕士生 和博士生培养以及专业学位的培养体系。

#### 研究基地

聚合物分子工程国家重点实验室 高分子及其先讲复合材料协同创新中心

#### Education

The department has 458 current students and has developed a systematic cultivation plan for undergraduates, academic/professional master and Ph.D. students.

#### Research Institutes

State Key Laboratory of Molecular Engineering of Polymers Collaborative Innovation Center of Polymers and Polymer Composite Materials



## 历史沿革 History

我国首批建立的高分子化学与物理 专业硕士学位、博士学位授予点

Among the first institutes to provide Master and Ph.D. degrees in Macromolecular Chemistry and Physics.

我国首批建立的高分子化学与物理 专业博士后流动站

Among the first institutes to offer postdoctoral positions in Macromolecular Chemistry and Physics.

建立"国家教委聚合物分子工程开放实验室"

The National Education Commission Open Laboratory of Molecular Engineering of Polymers was founded.

1981

1985

1994 29

1958

1982 1986

1993 \* 1996 • •

于同隐等创立复旦大学高分子学 科。复旦大学成立高分子教研室和 中国科学院复旦大学高分子化学研 究所

The discipline of Macromolecular Science was established by YU Tongyin et al. Fudan University established its Macromolecular Science Education and Research Center and CAS-Fudan Research Institute of Macromolecular Science.

1982年12月,高分子教研室整体进入新成立的材料科学研究所 1986年3月进入新成立的材料科学系

In December 1982, the Macromolecular Science Education and Research Center joined the new Material Science Research Institute.

In March 1986, it joined the newly established Department of Material Science.

成立高分子科学系和高分子科学研 穷所

The Department of Macromolecular Science and Research Institute of Macromolecular Science were established.

高分子化学与物理专业被评为 上海市重点学科

The discipline of Macromolecular Chemistry and Physics was selected as one of the key academic disciplines of Shanghai.

开放实验室晋升为首批教育部重点 实验室,更名为"聚合物分子工程 教育部重点实验室"

The Open Laboratory was selected as the Ministry of Education's first-batch State Key Laboratory, and was named as Key Laboratory of Molecular Engineering of Polymers, Ministry of Education.

获科技部批准建设"聚合物分子工程国家重点实验室"

The State Key Laboratory of Molecular Engineering of Polymers approved by the Ministry of Science and Technology.

| 筹建基于高分子学科的 "2011协同创新中心",获得学校培育支持

The Collaborative Innovation Center based on Macromolecular Science was launched and supported by Fudan University.

聚合物分子工程国家重点实验室参加国家重点实验室评估,被评为"良好"类实验室

The State Key Laboratory of Molecular Engineering of Polymers was evaluated among state key laboratories, and graded as "good".

1999 9月

20



2014 8月

2002

2012

2013 12月 「

复旦大学高分子化学与物理学科被 教育部批准为高等学校重点学科

The discipline of Macromolecular Chemistry and Physics in Fudan University was approved as one of the key academic disciplines by the Ministry of Education.

复旦大学高分子化学与物理二级学 科隶属于化学一级学科,被评为全 国重点学科

The discipline of Macromolecular Chemistry and Physics in Fudan, secondary discipline of Chemistry, was awarded as national key academic discipline. "聚合物分子工程国家重点实验室"通过建设验收

The State Key Laboratory of Molecular Engineering of Polymers passed examination by the Ministry of Science and Technology.



现有专任教师45人中,有中国科学院院士2人,教育部"长江学者奖励计划"特聘教授5人,国家杰出青年基金获得者8人,国家"千人计划"入选者1人,国家 "青年千人计划"入选者3人,国家优秀青年基金获得者2人。

The department currently hosts 45 faculties, including 2 Academicians of Chinese Academy of Science, 4 chair professors and 1 guest professor of the "Cheungkong Scholars Program" of Ministry of Education, 8 awardees of the National Distinguished Youth Science Fund of the Natural Science Fund of China (NSFC), 1 winner of State Recruitment Program of Global Experts, 3 winners of State Recruitment Program of Global Youth Experts, and 2 awardees of the Excellent Young Scientists Fund of the NSFC.



江明 教授 Prof. JIANG Ming

中国科学院院士 英国皇家化学会会士

研究方向:大分子自组装

Academician of Chinese Academy of Science

Fellow of Royal Society of Chemistry

Research area: Macromolecular Self-assembly



杨玉良 教授 Prof. YANG Yuliang

中国科学院院士

教育部长江学者特聘教授 (1999)

"973计划"首席科学家

"863计划"首席科学家

研究方向: 高分子凝聚态物理

Academician of Chinese Academy of Science

Chair Professor of the "Cheungkong Scholars Program" of Ministry of Education

Chief Scientist of "973" Program

Chief Scientist of "863" Program

Research area: Polymer Condensed Matter Physics

教育部长江学者特聘教授 (2007) 国家杰出青年基金获得者(2005)

研究方向: 生物大分子

Chair Professor of the "Cheungkong Scholars Program" of Ministry of Education Awardee of the National Distinguished Youth Science Fund of the NSFC

Research area: Biomacromolecules



教育部长江学者特聘教授 (2009) 国家杰出青年基金获得者(1998)

"973计划"首席科学家 研究方向: 生物医用材料

Chair Professor of the "Cheungkong Scholars Program" of Ministry of Education Awardee of the National Distinguished Youth Science Fund of the NSFC

Chief Scientist of "973" Program Research area: Biomedical Materials



丁建东 教授 Prof. DING Jiandong

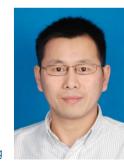
教育部长江学者特聘教授 (2014) 国家杰出青年基金获得者(2012)

英国皇家化学会会士 研究方向: 能源材料与器件

Chair Professor of the "Cheungkong Scholars Program" of Ministry of Education Awardee of the National Distinguished Youth Science Fund of the NSFC

Fellow of Royal Society of Chemistry

Research area: Energy Materials and Devices



彭慧胜 教授 Prof. PENG Huisheng

教育部长江学者特聘讲座教授 (2007) 研究方向: 高分子凝聚态物理

Guest Professor of the "Cheungkong Scholars Program" of Ministry of Education Research area: Polymer Condensed Matter Physics



史安昌 教授 Prof. SHI Anchang

## 师资队伍



Prof. WU Peivi

国家杰出青年基金获得者(2004) 上海市优秀学科带头人 研究方向:聚合物谱学表征

Awardee of the National Distinguished Youth Science Fund of the NSFC

Excellent Academic Leader of Shanghai Research area: Polymer Characterization

汪长春 教授 Prof. WANG Changchun

国家杰出青年基金获得者(2005) 上海市优秀学科带头人 研究方向: 功能高分子微球

Awardee of the National Distinguished Youth Science Fund of the NSFC Excellent Academic Leader of Shanghai

Research area: Functional Polymer Microspheres



邱枫 教授 Prof. QIU Feng

国家杰出青年基金获得者(2006) 国家中青年科技创新领军人才 研究方向: 高分子凝聚态物理

Awardee of the National Distinguished Youth Science Fund of the NSFC Sci. & Tech. Innovation Leading Talent

Research area: Polymer Condensed Matter Physics



Prof. CHEN Daoyong

国家杰出青年基金获得者 (2008) 上海市优秀学科带头人 研究方向: 大分子自组装

Awardee of the National Distinguished Youth Science Fund of the NSFC Excellent Academic Leader of Shanghai

Research area: Macromolecular Self-assembly

国家"千人计划"入选者(2014) 研究方向: 功能高分子材料

Winner of the State Recruitment Program of Global Experts Research area: Functional Polymer Materials





国家"青年千人计划"入选者(2013) 研究方向: 能源材料与器件

Winner of the State Recruitment Program of Global Youth Experts Research area: Energy Materials and Devices

魏大程 研究员 Prof. WEI Dacheng



国家"青年千人计划"入选者(2014) 研究方向: 大分子自组装

Winner of the State Recruitment Program of Global Youth Experts Research area: Macromolecular Self-assembly

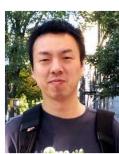


闫强 研究员 Prof. YAN Qiang

国家"青年千人计划"入选者(2015) 研究方向: 功能高分子材料

Winner of the State Recruitment Program of Global Youth Experts

Research area: Functional Polymer Materials



朱亮亮 青年研究员 Prof. ZHU Liangliang

国家优秀青年基金获得者 (2013) 上海市"浦江人才计划"入选者 研究方向: 高分子凝聚态物理

Awardee of the Excellent Young Scientists Fund of the NSFC

Winner of "Pujiang Talent Plan" of Shanghai

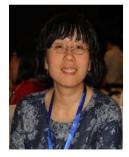
Research area: Polymer Condensed Matter Physics



Prof. LI Weihua

李卫华 教授

# 师资队伍



陈国颂 教授 Prof. CHEN Guosong

国家优秀青年基金获得者 (2013) 中组部万人计划(青年拔尖人才)入选者 研究方向:大分子自组装

Awardee of the Excellent Young Scientists Fund of the NSFC Winner of the National Youth Top-notch Talent Support Program

Research area: Macromolecular Self-assembly



徐宇曦 青年研究员 Prof. XU Yuxi

上海市东方学者特聘教授 (2015) 研究方向: 功能高分子材料

Professor of Special Appointment (Eastern Scholar) of Shanghai

Research area: Functional Polymer Materials



李同生 教授 Prof. LI Tongsheng

国务院特殊津贴专家 研究方向: 高分子复合材料

State Council Expert for Special Allowance Research area: Polymer Composites



姚萍 教授



Prof. YAO Ping



胡建华 教授 Prof. HU Jianhua

研究方向: 大分子自组装

Research area: Macromolecular Self-assembly

研究方向: 功能高分子微球

Research area: Functional Polymer Microspheres

研究方向: 生物医用材料

研究方向: 高分子复合材料

Research area: Polymer Composites

Research area: Biomedical Materials



周平 教授 Prof. ZHOU Ping





Prof. NI Xiuyuan



研究领域: 高分子合成

Research area: Polymer Synthesis

何军坡 教授 Prof. HE Junpo



研究方向: 高分子复合材料

Research area: Polymer Composites

冯嘉春 教授 Prof. FENG Jiachun



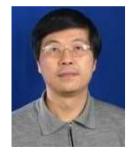
研究方向: 高分子复合材料

Research area: Polymer Composites

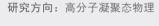
卢红斌 教授 Prof. LU Hongbin



## 师资队伍 Faculty



张红东 教授 Prof. ZHANG Hongdong



Research area: Polymer Condensed Matter Physics



唐萍 教授 Prof. TANG Ping

研究方向: 高分子凝聚态物理

Research area: Polymer Condensed Matter Physics



陈新 教授 Prof. CHEN Xin

上海高校优秀青年教师 教育部新世纪优秀人才 研究方向: 生物大分子

Excellent Young Teacher of Higher Education Institutes in Shanghai New Century Excellent Talent of the Ministry of Education Research area: Biomacromolecules



杨武利 教授 Prof. YANG Wuli

上海市青年科技启明星 上海市曙光学者

研究方向: 功能高分子微球

Shanghai Young Science and Technology Rising-Star

"Shu-guang Scholar" of Shanghai Municipal Education Commission

Research area: Functional Polymer Microspheres



余英丰 教授 Prof. YU Yingfeng

研究方向: 高分子复合材料

Research area: Polymer Composites



## 科学研究

### Research

高分子科学系沿着"分子设计一化学合成一结构与性能一加工成型一材料及应用"这一聚合物分子工程的构架,开展着学科前沿和前瞻性探索的研究工作。同时密切关注国家战略需求,将理论研究与实践相结合,在高分子材料领域为国民经济发展作出了贡献。

The Department of Macromolecular Science follows the protocol of "molecular design-chemical synthesis-structure and properties-processing-materials application" in conducting cutting-edge research and creative work. Meanwhile, by combining theoretical research with practical application, the department has been closely following the nation's strategic need and has contributed to the domestic economic development in the field of polymer materials.





## 科学研究 Research



## 研究方向一:

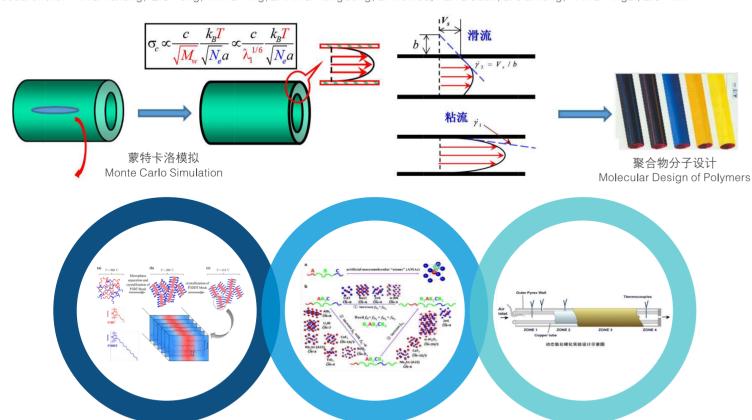
基于高分子凝聚态物理理论基础研究,通过企业合作试验,形成了"产、学、研"协同解决国家重大需求的新模式,先后实现了聚乙烯、聚丙烯等多种通用高分子 的高性能化。

We have developed a novel Industry-University-Research mode to solve the problems with major significance for China based on the basic research on polymer condensed matter physics and through cooperation with industry. The high performance of several commodity polymers such as PE and PP has been successfully realized by this mode.

团队成员:杨玉良、邱枫、唐萍、张红东、李卫华、彭娟、李剑锋、杨颖梓、刘一新

#### Research Area 1: Polymer Condensed Matter Physics

Researchers: YANG Yuliang, QIU Feng, TANG Ping, ZHANG Hongdong, LI Weihua, PENG Juan, LI Jianfeng, YANG Yingzi, LIU Yixin



功能高分子材料的凝聚态结构及性能 Structure and Properties of Functional Polymers Polymer Field Model and

高分子场论模型和粒子模拟 Particle Simulation

大品种高分子材料的应用开发 Industrial Applications of High-quality Polymer Materials









Monograph: Monte Monograph: Viscoelasticity Carlo Method in Polymer Science of Polymers



数据等数: 二年 数 数 有: 每三条



高聚物的

Second Class Prize for National Science and Technology Progress Award (2004)

