State Key Laboratory for
Modification of Chemical Fibers
and Polymer Materials (SKLFPM)
Donghua University

College of Materials Science
and Engineering (CMSE)
Donghua University

2002 - 2021

THE 10th CELEBRATION

ICAFPM2021

PROGRAM 会议手册

SKLFPM
DONGHUA UNIVERSITY
纤维材料改性国家重点实验室

2021年10月17–20日 中国 · 上海
October 17-20, 2021 Shanghai, China

THE 10th CELEBRATION

ICAFPM2021

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WELCOME MESSAGE

Prof. Meifang Zhu
朱美芳

Chairman of Organizing Committee of ICAFPM2021
Academician of Chinese Academy of Sciences
The World Academy of Sciences (TWAS)
Director of State Key Laboratory for Modification of Chemical Fibers and Polymer Materials
Dean of College of Materials Science and Engineering, Donghua University
Editor-in-Chief of *Advanced Fiber Materials*

Dear guests,

It is my distinct pleasure to welcome you to the 10th International Conference on Advanced Fibers and Polymer Materials (ICAFPM 2021) at Donghua University, from October 17th to 20th, 2021 in Shanghai, China.

ICAFPM 2021 is hosted by State Key Laboratory for Modification of Chemical Fibers and Polymer Materials (SKLFPM), and College of Materials Science and Engineering, Donghua University (CMSE, DHU), in close partnership with a variety of organizations, including Division of Fiber Materials and Composite Technology, Chinese Materials Research Society (FMCT, CMRS), Reinforcement Branch of China Composites Society, Nanocomposites Branch of China Composites Society, Innovation Base of Advanced Fabrication Technology of Fiber Materials, DHU, International Digital Health and Intelligent Material Innovation Alliance (IDHIMIA), Journal of Advanced Fiber Materials (Adv. Fiber Mater.), Alumni Association of College of Materials Science and Engineering, DHU.

Since its inception in 2002, ICAFPM aiming to discuss the latest research and progress in fields related to advanced fiber and polymer materials and to open up the frontier researches of fibers and polymers, has become one of the world's largest academic conferences focused on fiber-related fields. The theme of ICAFPM 2021 is: Better Fiber, Better World; a theme that resonates well with history and future. Fibers and polymers have played an indispensable part in the scientific and technological advances and will significantly shape our life and the world in the coming future. A number of plenary lectures, special sessions, forums, exhibitions, and poster sessions will be held on this theme and related sub-topics.

ICAFPM has become the premier gathering of domestic and international scientists who are dedicated to fiber and polymer research. I am thrilled that, this year, nearly 1000 researchers from around the world will showcase their cutting-edge research. They are from China, USA, UK, Germany, Portugal, Australia, Russia, Korea, Malaysia, and other countries. Some of them are academicians of Chinese Academy of Sciences, National Academy of Engineering of the United States of America, Academician of the American Academy of Arts and Sciences, Fellow, American Association for Advancement of Science (AAAS), the Royal Society of Chemistry, the European Academy of Science, Academician of the Royal New Zealand Academy of Sciences, Academician of Australian Academy of technical sciences and Engineering, National Academy of Sciences, Ukraine, Fellow, Materials Research Society, Fellow, American Ceramic Society, Academician, World Academy of Ceramics, Academician of the Academy of Sciences of developing countries. Editors of Nature Communications, Angewandte Chemie International Edition, Joule, Advanced Materials, Advanced Energy Materials, Advanced Functional Materials, Chemistry-A European Journal, Chemistry-An Asian Journal, Advanced Fiber Materials, Chinese Journal of Polymer Science, and Acta Polymerica Sinica will also share their insights. We believe that ICAFPM 2021 will provide an ideal platform for you to network with colleagues, discuss important research, and generate new ideas and opportunities for collaboration.

I am very grateful to each of you for participating and contributing to the success of this conference. I wish you a fruitful trip and look forward to learning about your ongoing research and discoveries. Outside of these activities, I hope you have some time to explore and enjoy our beautiful campus and the university town.

Best Regards,

Prof. Meifang Zhu
朱美芳

ORGANIZATION

主办单位：

State Key Laboratory for Modification of Chemical Fibers and Polymer Materials (Donghua University)
纤维材料改性国家重点实验室（东华大学）

College of Materials Science and Engineering (CMSE), Donghua University
东华大学材料科学与工程学院

承办单位：

Division of Fiber Materials and Composite Technology, Chinese Materials Research Society (FMCT, CMRS)
中国材料研究学会纤维材料改性与复合技术分会

Reinforcement Branch of China Composites Society
中国复合材料学会增强体分会

Nanocomposites Branch of China Composites Society
中国复合材料学会纳米复合材料分会

Innovation Base of Advanced Fabrication Technology of Fiber Materials, DHU
纤维材料先进制造技术与科学创新引智基地

International Digital Health and Intelligent Material Innovation Alliance (IDHIMIA)
国际数字健康与智能材料创新联合体

Advanced Fiber Materials (Adv. Fiber Mater.)
《先进纤维材料》期刊

The Key Laboratory of High-Performance Fibers and Product, Ministry of Education (B)
高性能纤维及制品教育部重点实验室（B）

Shanghai Belt and Road Joint Laboratory of Advanced Fiber and Low-dimension Materials (Donghua University)
上海市先进纤维与低维材料一带一路国际联合实验室（东华大学）

Alumni Association of College of Materials Science and Engineering, DHU
东华大学材料科学与工程学院校友会

协办单位：

Tuoren Medical Device Group Co., Ltd
驼人控股集团有限公司

Polymer Materials Working Group in Material Division of Teaching Steering Committee of Ministry of Education
教育部材料类专业教学指导委员会高分子材料工作组

Association for Science and Technology, Donghua University
东华大学科学技术协会

Textile Bioengineering and Informatics Society (TBIS)
纺织生物工程及信息学会

Center for Advanced Low-dimension Materials (CALM, DHU)
东华大学先进低维材料中心

Shanghai Key Laboratory of Light Weight Structural Composite Materials
上海市轻质结构复合材料重点实验室

Key Laboratory of Hybrid Functional Materials of the Universities in Shanghai
功能杂化材料上海高校重点实验室

Key Laboratory of Smart Fiber Technologies and Products, China National Textile and Apparel Council
中国纺织工业联合会纺织行业智能纤维技术与制品重点实验室

Key Laboratory of Design and Preparation of New Polyester Fiber, China National Textile and Apparel Council
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Textile Industry Key Laboratory for Cellulose Fibers, China National Textile and Apparel Council
中国纺织工业联合会纺织行业纤维素纤维重点实验室

Research Base of Fiber Microplastics Prevention and Control Science and Engineering, China Textile Engineering Society
中国纺织工程学会纤维微塑料防控科学与工程科研基地

Research Base of Textile Materials for Flexible Electronics and Biomedical Applications, China Textile Engineering Society
中国纺织工程学会柔性电子生物医用纺织材料科研基地

Journal of Donghua University (English Edition)
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Session N: Development of Fiber Industry and Alumni Forum

Session Chairs:

Xiaoping Duan, Songlin Wang, Huaping Wang, Long Chen, Bin Sun, Yumei Zhang

Session O: Innovation Forum for International Digital Health and Intelligent Materials

Session Chairs:

Meifang Zhu, Yi Li, Pengfei Li, Gang Wang, Fengkun Chen

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PROGRAM OVERVIEW

Oct. 17 2021	08:00-20:00	Registration（注册）										Fuyue Hotel 1F（富悦大堂）
	19:00-21:00	Editorial Committee of Advanced Fiber Materials（编委会）										Shanghai Hall 3F（三楼上海厅）
Oct. 18 2021	Dongfang Hall 1, 3F (三楼东方厅1)											
	08:30-08:50	Opening Ceremony（开幕式）										
	08:50-09:50	Plenary Lecture（大会报告）										
	09:50-10:10	Group Photo & Coffee Break（合影&茶歇）										
	10:10-10:30	QIAN Baojun Fiber Award Ceremony（钱宝钧纤维材料奖颁奖典礼）										
	10:30-12:00	Award Lecture/Plenary Lecture（大会报告）										
	12:00-13:00	Lunch（午餐）										Yuehua Hall 2F（二楼悦华厅）
	Venue	No.1	No.2	No.3	No.5	No.6	No.7	No.8	No.9	No.10	No.11	Shanghai Hall 3F 三楼上海厅 / Yuegui Hall 2F 二楼悦贵厅
	下午 Afternoon	A	D	C	L	J	K	E	H		I	F / O
	17:30-18:30	Poster Presentation（墙报展讲）										
	18:45-20:30	Banquet（晚餐）										Dongfang Hall 1, 3F (三楼东方厅1)
Oct. 19 2021	08:00-09:30	Plenary Lecture（大会报告）										Mingzhu Hall 3F (三楼明珠厅)
	上午 Morning	A	B	C	L	F	K	E	H	M	N	G
	12:00-13:00	Lunch（午餐）										Yuehua Hall 2F（二楼悦华厅）
	下午 Afternoon	D	B	C	L	J	K	E		M	N	G
	20:00-22:00	Annual Meeting of International Advisory Committee (SKLFPM/Innovation Base/International Joint Lab/AFMs)										Shanghai Hall 3F（三楼上海厅）
Oct. 20 2021	上午 Morning				L *online*	J		E				
	08:30-12:00	Plenary Lecture（大会报告） Closing Ceremony（闭幕式）										Mingzhu Hall 3F (三楼明珠厅)
	12:00-13:00	Lunch（午餐）										Yuehua Hall 2F（二楼悦华厅）

SESSION
15 in total

A	高性能纤维与复合材料 High-Performance Fibers and Composites
B	纤维及高分子的化学与物理 Chemistry and Physics in Fibers and Polymers
C	功能纤维与有机多孔聚合物 Functional Fibers and Porous Organic Polymers
D	智能纤维、纺织品与可穿戴智能设备 Smart Fibers, Textile and Wearable Intelligent Devices
E	生物医用纤维与聚合物 Fibers and Polymers for Medical Applications
F	环境友好纤维与聚合物 Environmentally Friendly Fibers and Polymers
G	能源用纤维与聚合物 Fibers and Polymers for Energy Applications
H	材料多功能集成与纤维器件 Multifunctional Integrated Materials and Fiber Devices
I	医用防护纤维与健康材料 Medical Protective Fibers and Health Materials
J	材料基因工程与杂化纤维 Materials Genetic Engineering and Hybrid Fibers
K	聚集诱导发光材料 Aggregation-induced Emission Materials
L	凝胶纤维与智能器件 Gelatinous Fiber and Intelligent Devices
M	复合材料与工程专业教育 Professional education of Composite Materials and Engineering
N	纤维产业发展与校友论坛 Development of Fiber Industry and Alumni Forum
O	国际数字健康与智能材料创新论坛 Innovation Forum for International Digital Health and Intelligent Materials

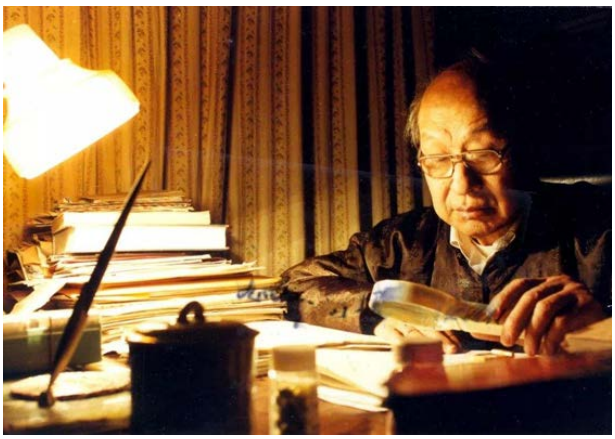
COFFEE BREAK TIME 茶歇时间

18th/19th/20th Morning 10:00-10:45
18/19/20日上午 10:00–10:45

18th/19th Afternoon 15:15-16:00
18/19日下午 15:15–16:00

INTRODUCTION OF QIAN BAOJUN FIBER AWARD

Qian Baojun Fiber Award



Prof. QIAN Baojun (1907-1996) is the founder of Fiber Research and Education in China. He was also the president of East China Institute of Textile Science and Technology (former name of Donghua University). Owing to his testament, his savings was used to financially support students in Donghua University, and hence the University set up QIAN Baojun Foundation to manage the fund.

For memorizing Prof. QIAN Baojun, his students and successors around world, decide to establish QIAN Baojun Fiber Award to recognize the contribution in Fiber Science and Technology. QIAN Baojun Foundation is in charge of selection of the award winners. Up to now, there are many companies in fiber and textile industry donating to QIAN Baojun Foundation for Fiber Award.

QIAN Baojun Fiber Award is conferred every two years. It includes Distinguished Achievement Award and Young Scholar Award, which will be conferred to distinguished scientists and excellent young scholars in the field of fiber-related sciences and engineering, respectively.

Distinguished Achievement Award:

The winners should have been recognized distinguished professional achievement in basic or applied fiber sciences. A certificate and USD 10,000 will be awarded.

Young Scholar Award:

The winners should be younger than 45, active in fiber science, and have done excellent work in the science, engineering, and technology of fibers, fiber-based materials and devices. A certificate and USD 3,000 will be awarded.

Selection Committee of QIAN Baojun Fiber Award

Committee Director: Elsa Reichmanis (Academician, NAE, USA)
Committee Members: Benjamin S. Hsiao (Stony Brook University, New York, USA), Takeshi Kikutani (Tokyo Institute of Technology, Japan), Xiaoping Duan (China National Textile and Apparel Council, China), Jinliang Sun (Academician, CAE, China)

Executive Committee of QIAN Baojun Fiber Award

Honorary Director: Stephen Z. D. Cheng (Academician, NAE, USA)
Director: Meifang Zhu
Executive Members: Rong Dai, Mingwei Zhao, Baogen Wu, Shuguang Yang, Yaozu Liao, Liyun Chen, Yihong Ye
Secretary-General: Yaozu Liao, Liyun Chen

Distinguished Achievement Award
杰出贡献奖

Nominee Details (获奖人信息)

Name	Richard B. Kaner
Date of Birth	June 20, 1958
Position	Distinguished Professor
Organization	Department of Chemistry & Materials Science, University of California, Los Angeles
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Biography (个人简介)

Prof. Richard Kaner received a Ph.D. from the University of Pennsylvania in 1984 working with Prof. Alan MacDiarmid (Nobel Laureate 2000, deceased). After postdoctoral research at Berkeley, he joined the University of California, Los Angeles (UCLA) in 1987, earned tenure in 1991, became a full professor in 1993, a Distinguished Professor in 2012 and was appointed to the Dr. Myung Ki Hong Endowed Chair in Materials Innovation in 2017. He has published over 440 papers in top peer reviewed journals and holds 60 U.S. patents. According to the most recent Clarivate Analytics/Thomson-Reuters rankings, he is among the world's most highly cited authors. Professor Kaner has received awards from the Dreyfus, Fulbright, Guggenheim, Packard and Sloan Foundations along with the Materials Research Society Medal, the Royal Society of Chemistry Centenary Prize, the Chemical Pioneer Award from the American Institute of Chemistry and the American Chemical Society's Buck-Whitney Research Award, Tolman Medal, Award in the Chemistry of Materials and the Award in Applied Polymer Science for his work on refractory materials including new synthetic routes to ceramics, intercalation compounds, superhard metals, graphene and conducting polymers. He has been elected a Fellow of the American Association for the Advancement of Science (AAAS), the American Chemical Society (ACS), the American Physical Society (APS), the European Academy of Sciences (EurASc), the Materials Research Society (MRS) and the Royal Society of Chemistry (FRSC).

Richard Kaner 于 1984 年获得宾夕法尼亚大学博士学位 (导师：Alan MacDiarmid 教授，2000 年诺贝尔化学奖获得者)。在加州大学伯克利分校进行博士后研究后，于 1987 年加入加州大学洛杉矶分校 (UCLA) 任助理教授，1991 年晋升副教授，1993 年成为正教授，2012 年成为杰出教授，2017 年被任命为 Myung Ki Hong 材料创新讲座教授。Kaner 教授发表了 440 多篇高水平论文，拥有 60 项美国专利。Kaner 教授是全球高被引作者，曾获得德雷福斯基金会、富布赖特基金会、古根海姆基金会、帕卡德基金会和斯隆基金会的奖项，以及材料研究学会奖章、英国皇家化学学会百年奖、美国化学学会巴克 – 惠特尼研究奖、托尔曼奖章和材料化学奖，以表彰他在前沿材料方面的工作，包括陶瓷、插层化合物、超硬金属、石墨烯和导电聚合物的新合成路线。Kaner 教授是欧洲科学院院士，美国科学促进协会、美国化学学会、材料研究学会和英国皇家化学学会会士。

Distinguished Achievement Award Conferred Reason:

For his pioneering work of conducting polymer nanofibers.
杰出贡献奖获奖理由：在导电聚合物纳米纤维领域的开拓性工作。

Young Scholar Award
青年学者奖

Nominee Details (获奖人信息)

Name	Yan Lu
Date of Birth	September, 1976
Position	Professor
Organization	Department of Electrochemical Energy Storage, Helmholtz-Zentrum Berlin für Materialien und Energie
Address	Hahn-Meitner-Platz 1, 14109 Berlin, Germany
Telephone	0049-30-806243191
Email	yan.lu@helmholtz-berlin.de

Biography (个人简介)

Prof. Yan Lu studied Polymer Materials at China Textile University and received her BSc. in 1998. She received MSc. in Material Science at Donghua University (China) in 2001. In 2005, she received her PhD with Summa Cum Laude in macromolecular chemistry at Dresden University of Technology, Germany. After that, she worked first as postdoc then research scientist in Physical Chemistry at University of Bayreuth. Since 2009, she joined Helmholtz-Zentrum Berlin für Materialien and Energie (HZB) as a group leader in Colloid Chemistry. She received "Dr. Hermann-Schnell-Stipendium" by the German Chemical Society (GDCh) in 2011. She was selected as top female researchers (W2/W3-Programme) in Helmholtz Association in 2015. Since 2017, she has been a professor in Institute of Chemistry at University of Potsdam. She has been also selected as member of Integrative Research Institute for the Sciences (IRIS) Adlershof of the Humboldt-Universität zu Berlin in 2017. Since 2019, she is the head of Department for Electrochemical Energy Storage at HZB. She and her co-workers have invented functional organic/inorganic hybrid materials based on polymeric colloidal particles with versatile applications, such as catalysts, energy storage materials (including Li-S batteries, supercapacitors, aqueous Li-ion batteries, etc.) and optical devices. Professor Lu has published over 140 peer-reviewed papers and 3 book chapters with citation number of over 11400. With the help of colloidal material chemistry theory, she used organic/inorganic hybrid strategies to focus on solving the challenges of flexible fiber-based batteries and high-performance all-solid-state batteries.

陆琰教授于 1998 年获得中国纺织大学高分子材料科学与工程学士学位，2001 年获得东华大学材料学硕士学位，2005 年以最高分获得德国德累斯顿工业大学高分子化学博士学位。2005–2008 年她曾在德国拜罗依特大学物理化学学院工作。2009 年，她加入德国柏林亥姆霍兹材料与能源国家研究中心 (HZB)，被任命为胶体化学组负责人。2011 年，她获得了德国化学学会（GDCh）颁发的 "Dr. Hermann–Schnell Prize"（高分子化学，物理化学领域杰出青年科学家）。2015 年，她入选亥姆霍兹杰出女科学家（W2/W3–Programme）。自 2017 年起她担任德国波茨坦大学化学系教授。2017 年，她还被选为柏林洪堡大学科学综合研究所（IRIS Adlershof）的成员。自 2019 年起，她担任 HZB 电化学储能系系主任。她和她的同事们发明了基于聚合物胶体颗粒的功能型复合材料，广泛应用于催化剂、储能材料（包括锂硫电池、超级电容器、水系锂离子电池等）和光学器件。陆琰教授发表了 140 多篇同行评审论文和 3 本书的章节，引用次数超过 11400 次。借助胶体材料化学理论，她利用有机 / 无机杂化策略，着重解决柔性纤维基电池和高性能全固态电池方面的挑战，并取得重要进展。

Young Scholar Award Conferred Reason:

For her excellent work of organic/inorganic hybrid fibers.
青年学者奖获奖理由：在有机 / 无机杂化纤维领域的出色工作。

Young Scholar Award
青年学者奖

Nominee Details (获奖人信息)

Name	Yaopeng Zhang
Date of Birth	July, 1977
Position	Professor
Organization	State Key Laboratory for Modification of Chemical Fibers and Polymer Materials; College of Materials Science and Engineering, Donghua University
Address	2999 North Renmin Road, Songjiang District, Shanghai 201620, China
Telephone	+86-21-67792341
Email	zyp@dhu.edu.cn

Biography (个人简介)

Prof. Yaopeng Zhang received his Ph.D in Materials Science from Donghua University (DHU) in 2002. From 2004 to 2007 he was a postdoctoral research fellow at the Kawamura Institute of Chemical Research, Japan. He served as a visiting scholar at Akita University in 2010 and at Stony Brook University in 2016, respectively. He has been appointed as a Professor at the College of Materials Science and Engineering (CMSE) at DHU Since 2012. He had been the deputy director of the State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, the vice dean of CMSE, DHU. Since 2018, he is the head of Textile Industry Key Laboratory for Cellulose fibers. His research focus is on silk materials for biomedical and bioelectronic applications. He exfoliated single molecular layer silk nanoribbons from silk and invented a feeding strategy to modify silk, resulting in the large-scale fabrication of functional silk. He has been Textile Academic Research Leader, Shanghai Academic Research Leader, Dawn Scholar and Shanghai Rising-Star Scholar. He has received 4 second prizes from Central Military Sci. & Tech. Committee, Ministry of Education, China, Shanghai Municipal Government, etc., one first prize of Shanghai Medical Science and Technology Award, and 2 awards from Hong Kong Sangma Foundation. Professor Zhang has published over 100 peer-reviewed papers and 2 book chapters. He obtains 43 issued patents with 10 transferred or licensed to industry for commercialization.

张耀鹏教授于 2002 年获得东华大学材料学博士学位。2004–2007 年在日本川村理化学研究所做博士后研究，2010 年和 2016 年分别在日本秋田大学和美国石溪大学做访问学者，2012 年起担任东华大学材料科学与工程学院教授。曾任纤维材料改性国家重点实验室副主任、东华大学材料科学与工程学院副院长。现任纺织行业纤维素纤维重点实验室主任。长期从事丝素蛋白纤维及功能材料研究，在蚕丝的生物医用、生物电子应用拓展等方面取得了系列成果。剥离出了单分子层丝素纳米带，发明了纳米材料添食育蚕法，推动了多功能蚕丝的产业化。入选纺织学术带头人、上海市优秀学术带头人、上海市曙光学者、上海市青年科技启明星等。获中央军委科技委、教育部、上海市等省部级二等奖 4 项、上海医学科技一等奖 1 项、香港桑麻基金会奖项 2 项。发表同行评审论文 100 多篇，参编专著 2 部，获授权发明专利 43 件，转让 9 件，实施许可 1 件。

Young Scholar Award Conferred Reason:

For his excellent work of silk fibers.
青年学者奖获奖理由：在蚕丝领域的出色工作。

INTRODUCTION OF ORGANIZERS

纤维材料改性国家重点实验室（东华大学）

纤维材料改性国家重点实验室依托于东华大学，源于我国第一个化学纤维专业，于 1992 年由原国家计委批准筹建，1996 年通过国家验收，2003 年起连续四次通过国家评估，其中 2018 年被评为材料领域“优秀类国家重点实验室”，是我国纤维和纺织材料领域第一个国家重点实验室，为我国发展成为化学纤维生产大国，并向纤维强国迈进做出重要贡献。

实验室设有三个研究方向:（1）高性能纤维与复合材料;（2）功能纤维与低维材料;（3）环境友好与生物纤维材料。依托本重点实验室建设的“纤维材料先进制造技术与科学创新引智基地”2007 年入选“高等学校学科创新引智计划”建设项目，2017 年顺利通过国家外专局和教育部验收并获滚动支持。2018 年，依托本重点实验室的先进纤维与低维材料国际联合实验室获批建设，该实验室属上海市科委“科技创新行动计划”“一带一路”国际合作项目。

实验室现任学术委员会主任为中国科学院院士张希教授，现任实验室主任为中国科学院院士朱美芳教授。现有固定人员 100 余人，已形成一支知识和年龄结构合理的高水平研究队伍。建有仪器设备公共平台，拥有大型仪器 300 余台（套）、工程试验线 26 条，实现 24 小时预约开放。

实验室始终坚持“开放、流动、联合、竞争”的八字方针。凝炼学科方向，汇聚科研人才，严格规范管理，广泛开展交流与合作。近年来荣获国家科技进步一等奖 1 项、国家自然科学二等奖 1 项、国家技术发明二等奖 6 项、国家科技进步二等奖 6 项、省部级一等奖 43 项。发表 SCI 收录论文 2000 余篇，获授权发明专利 1000 余项。承担国家重点研发计划、973 计划、863 计划、国家科技支撑计划、国家自然科学基金、省部级和国际合作及企业合作项目等近 700 项。

作为国家级科研基地，纤维材料改性国家重点实验室的发展目标是引领我国纤维材料科学技术与产业发展，对接国防军工航空航天战略性新材料重大需求，成为国际一流学术交流与研究基地。

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INTRODUCTION OF ORGANIZERS

State Key Laboratory for Modification of Chemical Fibers and Polymer Materials (Donghua University)

State Key Laboratory for Modification of Chemical Fibers and Polymer Materials (SKLFPM) in Donghua University, with the first Chinese major in chemical fibers, was founded under the approval of State Development Planning Commission in 1992. It completed the national acceptance in 1996 and passed the national assessment 4 times since 2003. In 2018, SKLFPM was rated as "Excellent State Key Laboratory". As the first key state-level scientific research center of fibers and textiles in China, it has made a great contribution to the development of chemical fiber industry of China.

SKLFPM currently focuses on three research themes, including high-performance fibers and composite materials, functional fibers and low-dimensional materials, and environmentally-friendly and biomass fibers and materials. In 2007, Innovation and Talents Introduction Base of Advanced Fabrication Technology of Fiber Materials was enrolled in the Talents Introducing Program for Disciplinary Innovation of Universities. In 2017, it passed the evaluation and got rolling support of State Bureau of Foreign Affairs and Ministry of Education. In 2018, the Shanghai Belt and Road Joint Laboratory of Advanced Fiber and Low-Dimension Materials built by SKLFPM was supported by Shanghai Science and Technology Commission.

Prof. Xi Zhang (Academician, CAS) is the current director of SKLFPM Academic Committee. The director of SKLFPM is Prof. Meifang Zhu (Academician, CAS). SKLFPM has more than 100 faculty members, which constitutes high-level research team. The facility center of SKLFPM is equipped with more than 300 instruments and 26 pilot plants.

SKLFPM promotes the principle of “openness, communication, cooperation and competition”. In recent years, SKLFPM has conducted nearly 700 scientific and engineering projects. The laboratory has been awarded 14 National Awards, and 43 first-level prizes at the provincial and ministerial level. More than 2000 academic papers have been published, and more than 1000 patents were authorized.

As a state-level research center, SKLFPM aims at leading the development of fiber science and technology as well as chemical fiber industry, to meet the great demand of strategic new materials for national defense, mintary, and aerospaace, and to be the international first-class academic exchange and research center.

SKLFPM
DONGHUA UNIVERSITY
纤维材料改性国家重点实验室

INTRODUCTION OF ORGANIZERS

东华大学材料科学与工程学院

东华大学材料科学与工程学院源于 1954 年钱宝钧、方柏容教授创建的新中国第一个化学纤维专业，历经化学纤维研究室、研究所及化学纤维系的建立和发展沿革，于 1994 年成立。现设有高分子材料与工程、复合材料与工程、无机非金属材料工程 3 个国家一流本科专业建设点。拥有“材料科学与工程”、“化学”2 个一级学科博士点以及“材料与化工”、“能源动力”2 个专业博士点。下属二级学科“材料学”为首批国家重点学科和上海市“重中之重”学科，“材料加工工程”为上海市重点学科。依托学院建有纤维材料改性国家重点实验室（2018 年国家评估为优秀）、高性能纤维及制品教育部重点实验室（B）、先进玻璃制造技术教育部工程研究中心（2018 年国家评估为优秀）等 21 个国家和省部级科研基地。

学院是国务院材料学科评议组成员、教育部材料类专业教指委副主任、中国材料研究学会副理事长单位。先后获全国教育系统先进集体、全国工人先锋号、全国样板党支部等 30 余项国家级荣誉。学院师资力量雄厚，现有教职工 154 名，含正高 63 名，副高 51 名，国家级人才 30 余名（其中两院院士 4 名、国家重点研发计划首席科学家 7 名）。在校生 2275 名，包括本科生 958 名、研究生 1317 名（含留学生 52 名）。迄今已培养了优秀毕业生 1.2 万余名。

学院坚持“四个面向”，率先实现了黏胶基碳纤维、芳纶等战略物资国产化；参与研发的先进玻璃材料在神舟飞船上获得成功应用；大量开展了功能聚酯纤维等通用纤维研究，为占世界产量 70% 的中国化纤产业转型升级做出突出贡献；牵头成立了国家先进功能纤维创新中心与民航复材协同创新中心，服务大飞机、长三角一体化及“一带一路”等国家战略；学科先后获国家三大奖 18 项，成果和专利转化效益惠及年产值达万亿的纤维材料等行业。

新时代下，学院以世界一流学科建设为统领，瞄准国际前沿和国家重大需求，结合长三角材料产业发展特色，聚焦高性能纤维与复合材料、功能纤维与智能材料、生物纤维与健康材料、先进玻璃与陶瓷材料、低碳技术与能源材料五大重点建设领域，汇聚一流师资队伍，培养一流人才，开展一流研究，目标是建成具有中国特色的世界一流材料科学与工程学院。

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INTRODUCTION OF ORGANIZERS

College of Materials Science and Engineering (CMSE), Donghua University

The College of Materials Science and Engineering (CMSE) of Donghua University was founded in 1994, originating from the first program of chemical fibers in P.R. China initiated by Prof. Qian Baojun and Prof. Fang Borong back in 1954. CMSE currently offers three national first-class undergraduate programs (Polymer Materials and Engineering, Composite Materials and Engineering, and Inorganic Non-metallic Materials Engineering), two first-level discipline Ph.D. programs (Materials Science and Engineering, Chemistry), as well as two Doctor of Engineering programs (Materials and Chemical Engineering, Energy and Power). Its sub-discipline of "Materials Science" is one of the first set of national key disciplines and Shanghai's "top priority" discipline, and the one of "Material Processing Engineering" is also a key discipline in Shanghai. There are 21 national, provincial, and ministerial scientific research bases affiliated to CMSE, including the State Key Laboratory for Modification of Chemical Fibers and Polymer Materials (SKLFPM), the Key Laboratory of High-Performance Fibers and Product of Ministry of Education (B), and Engineering Research Center of Advanced Glass Manufacturing Technology of Ministry of Education. The SKLFPM and the Engineering Research Center of Advanced Glass Manufacturing Technology of Ministry of Education were both awarded "Excellent" in the national evaluation in 2018.

CMSE is proud of its strong and dynamic faculty team of 154 members (including 63 professors and 51 associate professors), among whom there are over 30 national talents, including 4 academicians of the Chinese Academy of Sciences and Chinese Academy of Engineering and 7 Chief Scientists of the China National Key R&D Programs. CMSE faculty has been appointed as the member of the Academic Degree Committee of the State Council of China, the deputy director of Material Division of Teaching Steering Committee of Ministry of Education, the vice chairman of Chinese Materials Research Society and so on. CMSE has successively won more than 30 national honors such as the Advanced Group of the National Education System, the National Worker Pioneer, and the National Model Party Branch. In year 2021, there are 2275 students in CMSE, with 958 undergraduates and 1317 graduates (including 52 international students). With several decades' excellence in both research and teaching, CMSE is grateful to have over 12,000 alumni so far.

CMSE is national leader in chemical fiber research and has played an important role in the development of the chemical fiber industry in China. With the "Four Facing" as the motto, CSME has successfully resolved numerous key technical issues to address major national needs, such as the realization of the homemade strategic materials (e.g., viscose-based carbon fiber and aramid fiber) and the development of the advanced glass materials successfully applied in the Shenzhou spacecraft. Our research on functional polyester fibers and other commodity fibers has made great contributions to the transformation and upgrading of China's chemical fiber industry, which accounts for 70% of the world's total output. CMSE also took the lead in establishing the National Advanced Functional Fiber Innovation Center and the Civil Aviation Composite Material Collaborative Innovation Center for projects related to China's major strategies, such as the domestic large aircraft C919, Yangtze River Delta, and the Belt and Road Initiative. In addition, CMSE set up the world's first fiber innovation award and launched "Advanced Fiber Materials", a high-quality international journal focused on fiber materials. So far, the discipline has won the three major national awards for as many as 18 times, whose achievements and patent conversion benefit fiber materials-related industries with an annual output value of trillions of RMB.

In the new era, with a long-standing commitment to high-quality education and cutting-edge scientific research, CMSE aims to become a distinctive, embracive, and high-level research-oriented college. Faced with the world's latest challenges, major national needs, and the unique development characteristics of the local materials industry in the Yangtze River Delta, CMSE is dedicated to active engagement and significant advance in the following five core fields: (i) high-performance fibers and composite materials; (ii) functional fibers and smart materials; (iii) biological fibers and health materials; (iv) advanced glass and ceramic materials; (v) low-carbon technology and energy materials. CMSE will strive to support top faculty, talents, research and innovation, with the ultimate goal of building a world-class materials science and engineering college with Chinese characteristics.

GUIDANCE

Anti-Epidemic Guidelines （防疫须知）

为落实《松江区关于加强集会类活动新冠肺炎疫情常态化防控工作的通知》的有关工作要求，大会成立疫情防控工作小组，制订疫情防控工作方案和应急处置预案，按照要求收集、汇总相关信息备案。

（一）工作人员及参会人员健康监测和安全承诺

1、本人以及家属（或同住人）会议前 14 天内有中高风险地区旅居史或会议前 21 天内有境外旅居史，谢绝参加线下会议（可选择线上参会）；

2、本人在会议前 14 天内如有发烧、咳嗽、咽痛、呼吸困难、呕吐、腹泻等症状，不得参与工作和会议。

（二）参会人员进入会议场地要求

1、会议期间进入会场参会需提供以下信息：

1）14 天体温检测表（10 月 3-16 日，每日体温，可提前记录，注册报到前签字）

2）个人健康承诺书（注册报到前签字）

3）健康码绿码 + 行程码绿码 + 身份证

4）参会人员需提供 3 日内核酸检测阴性报告，建议参会人员在上海医院做核酸检测。为方便参会人员，会务组已联系核酸检测机构工作人员到上海富悦大酒店一楼 A2 商铺进行集中采样，提供核酸检测服务（**免费**）。

集中采样时间：

10 月 17 日 12:00-17:00

10 月 18 日 08:00-17:00

10 月 19 日 08:00-17:00

10 月 20 日 08:00-11:00

2、会议当天，体温≥ 37.3℃ 的人员，不得参加会议。

3、仍在隔离治疗期的确诊、疑似病例或无症状感染者，隔离期未结束的密切接触者，来自或途径国内疫情中高风险地区、有国（境）外旅居史的未解除隔离者，不得参加会议。

（三）会议中异常情况处置

1、会议过程中，若出现发烧、咳嗽、咽痛、呼吸困难、呕吐、腹泻等异常状况，应立即向现场工作人员报告，按照防疫相关程序，及时送到应急隔离点。

2、大会期间如需其它医疗服务，请联系会务工作人员（陈忻老师，电话 13501988410）；夜间急诊，请直接拨打 120 急救电话。

（四）会议后防疫要求

会议结束后，参会人员须听从工作人员指挥，分批、有序离开会议场地。

健康云小程序　　随申办微信小程序

Wi-Fi Service

Public free Wi-Fi service (username: fuyuehotel, no password) is provided to all participants in conference venue (Shanghai Fuyue Hotel).

GUIDANCE

Conference Venue

Fuyue Hotel, Shanghai, China
中国 · 上海 富悦大酒店 上海市松江区茸悦路 208 弄

Taxi Route

Public Transportation

A

Hongqiao International Airport/Railway Station
虹桥国际机场 / 虹桥火车站

Hongqiao Hub's Bus No.4
虹桥枢纽 4 路车

Qibao Station
七宝站

Subway Line 9
地铁 9 号线

Songjiang University Town Station
松江大学城站

Songjiang T2 (Inner circle)
松江有轨电车 2 号线 (内圈)

Shanghai Fuyue Hotel
上海富悦大酒店

B

Pudong International Airport
浦东国际机场

Subway Line 2
地铁 2 号线

Century Avenue Station
世纪大道

Subway Line 9
地铁 9 号线

Songjiang University Town Station
松江大学城站

Songjiang T2 (Inner circle)
松江有轨电车 2 号线 (内圈)

Shanghai Fuyue Hotel
上海富悦大酒店

GUIDANCE

Information for Poster Presenters

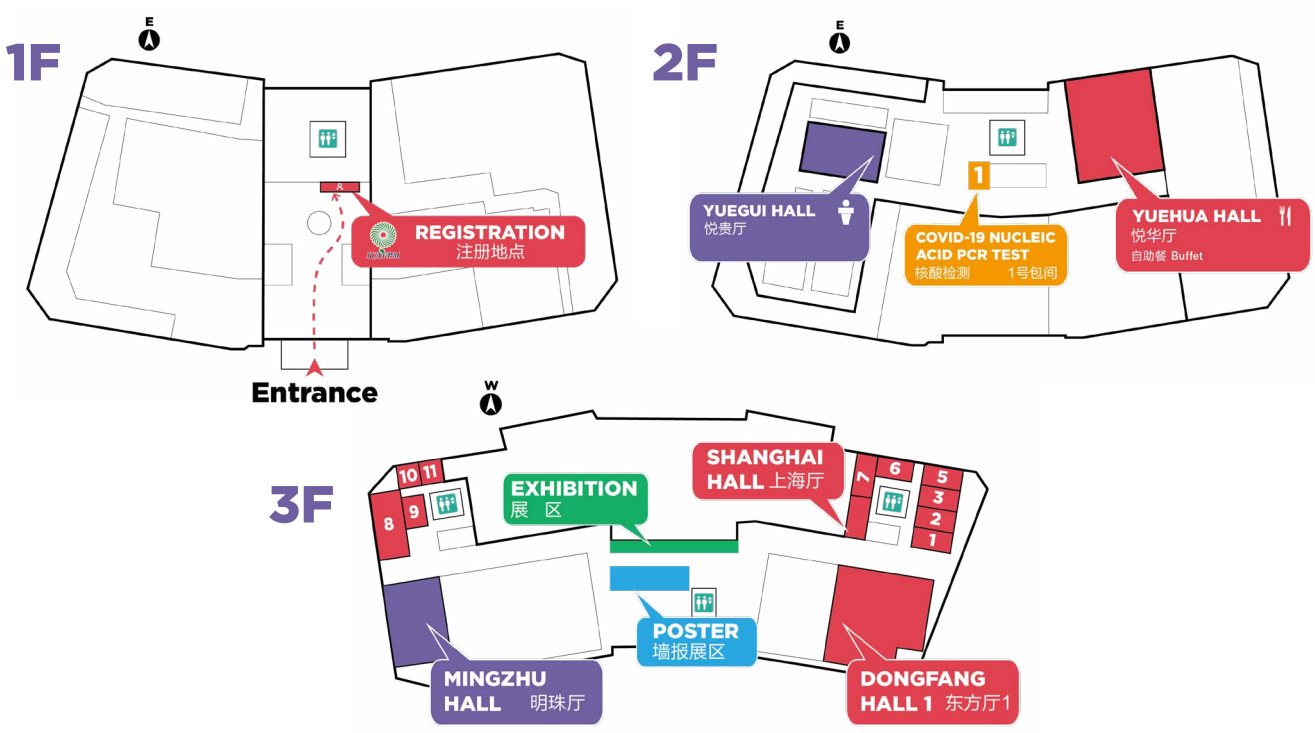
Poster Requirement
The poster should be 105 cm high and 80 cm wide.

Poster Location
Meeting point, 3F, Fuyue Hotel Shanghai.

Posting Arrangement
The presenters should mount the posters by themselves between 9:00 and 17:00, Oct 18, 2021. Relevant tools will be provided on site. The presenters should withdraw the posters between 08:00 and 13:00, Oct 20, 2021.

Poster Presentation & Award
A poster presentation is a visual display and an extremely useful. During the poster session 17:30-18:30 on Oct 18, 2021, all the authors are asked to be alongside their poster. The Poster Session time is marked as an opportunity for delegates to approach the authors of the poster and ask questions or discuss any information displayed. The "Excellent Poster Award" will be announced in the closing ceremony.

The Map of Conference Venue Fuyue Hotel



Lunch and Dinner

Oct. 17 Dinner (17:30-20:00)
Yuehua Hall, 2F, Fuyue Hotel Shanghai

Oct. 18 Lunch (12:00-13:00)
Yuehua Hall, 2F, Fuyue Hotel Shanghai

Oct. 18 Banquet (18:45-20:30)
Dongfang Hall 1, 3F, Fuyue Hotel Shanghai

Oct. 19 Lunch (12:00-13:00)
Yuehua Hall, 2F, Fuyue Hotel Shanghai

Oct. 20 Lunch (12:00-13:00)
Yuehua Hall, 2F, Fuyue Hotel Shanghai

PLENARY LECTURE

Oct. 18 Morning			Venue: Dongfang Hall 1
Time	**Speaker**	**Title**	**Affiliation**
08:50-09:20	**Ben Zhong Tang**	AIE-active polymers and aie-based technologies	The Chinese University of Hong Kong
09:20-09:50	**Yury Gogotsi**	MXene-based functional fibers and fabrics for electronic textiles	Drexel Univeristy
10:30-11:00	**Richard Kaner**	Polyaniline nanofibers: from laboratory curiosity to commercial product	University of California, Los Angeles
11:00-11:30	**Shu-Hong Yu**	Bio-based sustainable structural materials	University of Science and Technolgy of China
11:30-12:00	**Jin Zhang**	Carbonene based fiber: from controlled preparation to application	Peking University

Oct. 19 Morning			Venue: Mingzhu Hall
Time	**Speaker**	**Title**	**Affiliation**
08:00-08:30	**Elsa Reichmanis**	Solution process protocols: impact on conjugated polymer device performance	Lehigh Univeristy
08:30-09:00	**Xiaodong Chen**	Artificial sense technology	Nanyang Technological University
09:00-09:30	**Zhenan Bao**	Skin-inspired organic electronics	Stanford University

Oct. 20 Morning			Venue: Mingzhu Hall
Time	**Speaker**	**Title**	**Affiliation**
08:30-09:00	**Muhuo Yu**	Fiber reinforced polymer composites and its applicaiton in medicine field	Donghua University
09:00-09:30	**Xiaogang Liu**	Luminescent materials: the path to applied imaging and assistive technologies	National University of Singapore
09:30-10:00	**Il-Doo Kim**	Advances in nanostructured functional fibers: antiviral filtration, chemical sensor, and energy applications	Korea Advanced Institute of Science and Technology
10:00-10:30	**Lin Ye**	3D printing of continuous fibre composites – issues and challenges	The University of Sydney
10:30-11:00	**Tongyi Zhang**	From data to knowledge – materials/ mechanics informatics	Shanghai University

PARALLEL SESSION

High-Performance Fibers and Composites
高性能纤维与复合材料

A

Oct. 18 Afternoon — Venue: Room No. 1

Moderator: Anqi Ju

Time	Type	Speaker	Title	Affiliation
13:00-13:25	Keynote	Chao Gao	Graphene fibers and multi-functional graphene composite fiber	Zhejiang University
13:25-13:45	Invited	Yanzi Gou	Nearly stoichiometric polycrystalline SiC fibers with thermal stability up to 1900℃	National University of Defense Technology
13:45-14:00	Oral	Wendou Chen	Effect of the crystalline structure of cotton cellulose on the photocatalytic activities of cotton fibers immobilized with TiO_2 nanoparticles	Xi'an Polytechnic University

Moderator: Jiangtao Di

14:00-14:20	Invited	Na Han	Research progress in the Preparation of low-cost polyacrylonitrile based carbon fibers by melt spinning	Tiangong University
14:20-14:35	Oral	Yujie Jia	Highly efficient self-healable and robust fluorinated polyurethane elastomer for wearable electronics	Shanghai University of Engineering Science
14:35-14:50	Oral	Shaomeng Zhang	Industrial application development of 1 million to 10 million ultra-high molecular weight polyethylene	Beijing University of Chemical Technology
14:50-15:10	Coffee Break			

Moderator: Chao Gao

15:10-15:35	Keynote	Jiangtao Di	Ion-injection-driven carbon nanotube yarn muscle	Suzhou Institute of Nano-Tech and Nano-Bionics, CAS
15:35-15:55	Invited	Juan Guan	Interfacial interactions between silk fibre and polycaprolactone and exploration of 3D silk structure construction	Beihang University
15:55-16:10	Oral	Xutong Zhang	Pseudo-ductility analysis of unidirectional carbon/glass hybrid UACS laminates based on thin carbon fiber prepreg	Nanjing Tech University

Moderator: Hui Zhang

16:10-16:35	Keynote	Jiaguang Meng	The preparation of a new 3D printing materials with cotton	Xi'an Polytechnic University
16:35-16:55	Invited	Zhenzhong Yong	Continuous preparation of carbon nanotube fibers and their mechanical property enhancement	Suzhou Institute of Nano-Tech and Nano-Bionics, CAS
16:55-17:10	Oral	Jianjun Lou	Application of fully automatic viscometer in polymer science	Hangzhou Zhuoxiang Technology Co., Ltd
17:10-17:25	Oral	Hao Ding	Application of micro ct in fiber and composite materials studies	Shuyun Instruments (Shanghai) Co., Ltd

A

High-Performance Fibers and Composites
高性能纤维与复合材料

PARALLEL SESSION

Oct. 19 Morning — Venue: Room No. 1

Moderator: Qingbao Guan

Time	Type	Speaker	Title	Affiliation
09:30-09:55	Keynote	Qigang Han	A biomimetic basalt fiber/epoxy helical composite spring with hierarchical triple-helix structures and superior mechanical properties inspired by the collagen fibers in compact bone	Jilin University
09:55-10:15	Invited	Enlai Gao	Understanding the mechanical behaviors of macroscopic carbon nanotube and graphene assemblies using a multi-scale model	Wuhan University
10:15-10:35	Invited	Jie Dong	Advanced functional polyimide fibers	Donghua Unviersity
10:35-10:55	Coffee Break			

Moderator: Qigang Han

10:55-11:20	Keynote	Dongxian Zhuo	Preparation, performance and application of high-content carbon nanotube/polymer composites	Quanzhou Normal University
11:20-11:35	Oral	Zhenghe Zhang	Laser-induced superhigh-temperature graphitization of carbon fibers	Beijing University of Chemical Technology
11:35-11:50	Oral	Enze Tian	Toward high filtration efficiency and ultra-low resistance: Electrostatically assisted air filtration by polydopamine coated PET coarse filter	Tsinghua University

PARALLEL SESSION

Chemistry and Physics in Fibers and Polymers
纤维及高分子的化学与物理

B

Oct. 19 Morning — Venue: Room No. 2

Moderator: Changle Chen

Time	Type	Speaker	Title	Affiliation
08:30-08:55	Keynote	Gang Sun	Reactive fibrous materials for chemical and biological protection	University of California, Davis
08:55-09:20	Keynote	Yingwu Luo	Physical reconstruction of soft elastomer networks to enhance electro-actuation performance	Zhejiang University
09:20-09:40	Invited	Linghai Xie	Progress in organic/polymer wide-bandgap blue-emitting semiconductors	Nanjing University of Posts & Telecommunications
09:40-10:00	Invited	Qi Zhang	Ionic liquid-based functional materials	The Chinese University of Hong Kong, Shenzhen
10:00-10:20	Coffee Break			

Moderator: Yingwu Luo

10:20-10:45	Keynote	Changle Chen	Catalytic synthesis and properties of polar functionalized polyolefins	University of Science & Technology of China
10:45-11:05	Invited	Yuetao Zhang	Recent progresses in the living polymerization of polar vinyl monomers by "frustrated lewis pair"	Jilin University
11:05-11:25	Invited	Weimin Yang	Preparation of fully oriented polylactic acid yarns by polymer melt differential electrospinning	Beijing University of Chemical Technology
11:25-11:45	Invited	Haobin Zhang	Flexible and multifunctional silk textiles with biomimetic leaf-like mxene/silver nanowire nanostructures	Beijing University of Chemical Technology

B

Chemistry and Physics in Fibers and Polymers
纤维及高分子的化学与物理

PARALLEL SESSION

Oct. 19 Afternoon — Venue: Room No. 2

Moderator: Wenbin Zhang

Time	Type	Speaker	Title	Affiliation
13:00-13:25	Keynote	Zhengbiao Zhang	The precision synthesis of discrete and recyclable polyesters	Soochow University
13:25-13:45	Invited	Yonghua Chen	Proton ionic liquid for perovskite solar cells	Nanjing Tech University
13:45-14:05	Invited	Quan Niu	Degeneration mechanism of polymer light emitting diodes	South China University of Technology
14:05-14:25	Invited	Zhongbin Wu	Vertical organic light-emitting transistors	Northwetern Polytechnical University
14:25-14:45	Invited	Baiquan Liu	Colloidal quantum well light emitting diodes	Sun Yat-Sen University
14:45-15:05	Invited	Zhijuan Sun	High flux and high thermal-responsive nano-filtration membranes from structurally controlled zwitterionic nanocapsules	Zhejiang Universtiy of Technology
15:05-15:25	Coffee Break			

Moderator: Zhengbiao Zhang

15:25-15:50	Keynote	Wenbin Zhang	Leveraging POSS for the discovery of unconventional phases	Peking University
15:50-16:10	Invited	Yingfeng Tu	Multiblock copolymer-based super strong and tough elastic fibers	Soochow University
16:10-16:30	Invited	Biao Zhang	Robust and functional shape memory polymers for digital light processing based 3d/4d printing	Northwetern Polytechnical University
16:30-16:50	Invited	Zaifang Li	Preparation of highly conductive PEDOT: PSS electrode and its application in flexible electronics	Jiaxing University
16:50-17:10	Invited	He Cheng	Neutron total scattering investigation on the dissolution mechanism of trehalose in alkali/ urea aqueous solution	Spallation Neutron Source Science Center (SNSSC)
17:10-17:30	Invited	Shixiong Yi	The photoactive activity of silk fibroin/ cellulose acetate blend nanofibrous membranes for efficient degradation of dyes	Southwest University
17:30-17:50	Invited	Wenqing Wang	Construction of nano-multilayer coatings on copolyester fabrics via layer-by-layer self-assembly for improved anti-droplet and flame retardent performance	Beijing Institute of Fashion Technology

PARALLEL SESSION

Functional Fibers and Porous Organic Polymers
功能纤维与有机多孔聚合物

C

Oct. 18 Afternoon — Venue: Room No. 3

Moderators: Yaozu Liao, Fan Zhang

Time	Type	Speaker	Title	Affiliation
13:30-13:50	Invited	Gang Xu	MOF thin film gas sensing material	Fujian Institute of Research on the Structure of Matter, CAS
13:50-14:10	Invited	Long Chen	2D conjugated polymers	Jilin University
14:10-14:30	Invited	Yingjie Zhao	Large size 2D polymer single crystal preparation	Qingdao University of Science and Technology
14:30-15:00	Keynote	Charl F. J. Faul	Tuning structure and function in n-containing conjugated microporous polymers (online)	University of Bristol
15:00-15:30	Keynote	Fan Zhang	Vinylene-linked cof-based thin-films for electrochemical energy storage	Shanghai Jiao Tong University
15:30-16:00	Coffee Break			
16:00-16:20	Invited	Yiyong Mai	Controlled preparation of mesoporous nanomaterials for energy storage and conversion by tunable self-assembly of block copolymers in solution	Shanghai Jiao Tong University
16:20-16:40	Invited	Xuetong Zhang	Aerogel fibers: design, fabrication and performance	Suzhou Institute of Nano-tech and Nano-bionics, CAS
16:40-17:00	Invited	Yong Zhao	Hierarchicall hollow nanofiber energy catalytic material	Beihang University
17:00-17:20	Invited	Ning Ma	Microenvironment construction in textile fiber surface and applications in catalysis and adsorption	Tianjin University

Oct. 19 Morning — Venue: Room No. 3

Moderators: Zhen Xu, Hangxun Xu

Time	Type	Speaker	Title	Affiliation
08:30-09:00	Keynote	Jinsong Leng	Stimuli-responsive polymer composites and 4d printing: from materials to applications	Harbin Institute of Technology
09:00-09:20	Invited	Juan Peng	Adjusting the cocrystallization and microphase separation in all-conjugated block copolymers	Fudan University
09:20-09:40	Invited	Yuebiao Zhang	Functional porous framework materials on-demandtom porous frame material	Shanghai Tech University
09:40-10:00	Invited	Hangxun Xu	Study on the structure and mechanism of polymer solar photochemical conversion materials	University of Science and Technology of China

C

Functional Fibers and Porous Organic Polymers
功能纤维与有机多孔聚合物

PARALLEL SESSION

Oct. 19 Morning — Venue: Room No. 3

10:00-10:30	Coffee Break			
10:30-10:50	Invited	Zhen Xu	Enabling blow-spinning and electrospinning of 2D Sheets	Zhejiang University
10:50-11:10	Invited	Kun Huang	Synthesis of N-doped carbon/metal catalyst with different morporlogy derived from in-situ carbonization of N-containing hyper-crosslinked polymer and its catalysis research	East China Normal University
11:10-11:30	Invited	Hong Yang	Liquid crystal elastomer based unprecedented two-way shape-memory aerogel	Southeast University
11:30-11:50	Invited	Fenghua Zhang	Shape memory fibers: from materials to applications	Harbin Institute of Technology

Oct. 19 Afternoon — Venue: Room No. 3

Moderators: Weiyi Zhang, Jiaxin Jiang

Time	Type	Speaker	Title	Affiliation
13:30-14:00	Keynote	Baohang Han	Functional conjugated porous organic polymers: preparation and applications	National Center for Nanoscience and Technology
14:00-14:20	Invited	Jia Guo	Improved photocatalytic activity of covalent organic frameworks for H_2 evolution	Fudan University
14:20-14:40	Invited	Yuxi Xu	Energy storage and conversion materials based on 2D functional polymers	Westlake University
14:40-15:00	Invited	Jiaxing Jiang	Structural design of conjugated microporous polymer electrodes for high-performance rechargeable batteries	Shaanxi Normal University
15:00-15:20	Invited	Shuang Li	Design, synthesis, and catalytic performance regulation of novel hybrid materials	Sichuan University
15:20-15:50	Coffee Break			
15:50-16:10	Invited	Runlai Li	Ultra-high molecular weight ultrathin porous polyethylene film	Sichuan University
16:10-16:30	Invited	Xiong Chen	Rational design of donor-acceptor conjugated polymers for photocatalytic hydrogen evolution from water	Fuzhou University
16:30-16:50	Invited	Xiaojia Zhao	Design and synthesis of covalent organic frameworks on macroscopical scales	Hebei Normal University
16:50-17:10	Invited	Xianlei Shi	Fiber-supported catalysis and polymer effect	Henan Polytechnic University
17:10-17:30	Invited	Zongquan Wu	Fabrication of supramolecular helical nanofibers based on helical polyisocyanides	Hefei University of Technology

PARALLEL SESSION

Smart Fibers, Textile and Wearable Intelligent Devices
智能纤维、纺织品与可穿戴智能设备

D

Oct. 18 Afternoon — Venue: Room No. 2

Moderators: Hongzhi Wang, Yanyan Fu

Time	Type	Speaker	Title	Affiliation
13:00-13:20	Invited	Yanyan Fu	Design of organic fluorescent materials and their application in trace hazardous chemicals vapor sensing	Shanghai Institute of Microsystem and Information Technology, CAS
13:20-13:40	Invited	Anzhu Gao	Continuum robots for medical applications	Shanghai Jiao Tong University
13:40-14:00	Invited	Shengtong Sun	Intrinsically stretchable conducting fibers for adaptive sensing	Donghua University
14:00-14:20	Invited	Yue Lin	Kilometers long graphene-coated optical fibers for fast thermal sensing	Fujian Institute of Research on the Structure of Matter, CAS
14:20-14:40	Invited	Pengchao Si	Self-supported transition metal sulfides/phosphides for all-solid-state hybrid supercapacitors	Shandong University
14:40-15:00	Invited	Nan Zhu	Wearable electrochemical biosensors towards self-powered devices	Dalian University of Technology
15:00-15:20	Invited	Liang Shen	High performance perovskite photodetecotors for optical imaging and communications	Jilin University
15:20-15:40	Coffee Break			
15:40-16:00	Invited	Dechao Geng	Growth engineering of 2D crystals for smart electronics	Tianjin University
16:00-16:20	Invited	Lizhen Huang	Constructing high performance organic semiconductor devices via interface modulation	Soochow University
16:20-16:40	Invited	Kai Dong	Autonomous power supplying and self-powered sensing smart fiber materials	Beijing Institute of Nanoenergy and Nanosystems, CAS
16:40-17:00	Invited	Huawei Hu	Highly efficient, stable, and ductile non-fullerene organic solar cells	Donghua University
17:00-17:20	Invited	Peijun Xu	Color carbon fiber and its discoloration response	Chang'an University
17:20-17:30	Oral	Zhiyuan Bai	Transparent metal–organic framework-based gel electrolytes for generalized assembly of quasi-solid-state electrochromic devices	Donghua University
17:30-17:40	Oral	Xuan Li	MXene and MWNTs-COOH synergistically synergize poly(vinylidene fluoride)@poly-l-lactic acid-based hybrid tribo/piezoelectric with ultra-high electrical power density	Tiangong University
17:40-17:50	Oral	Shuo Chen	The continuous and scalable fabrication of organohydrogel fibers by wet spinning for wearable electronics	Shanghai Jiao Tong University

D

Smart Fibers, Textile and Wearable Intelligent Devices
智能纤维、纺织品与可穿戴智能设备

PARALLEL SESSION

Oct. 18 Afternoon — Venue: Room No. 2

17:50-18:00	Oral	Shuqiang Zhao	Large-scale assembly of highly stretchable and conductive polydopamine-generated poly (ethylene terephthalate)/ polyurethane fabric through the self-assembly intercalation strategy for superior sensing	Jiangnan University

Oct. 19 Afternoon — Venue: Room No. 1

Moderators: Huawei Hu, Ranran Wang

Time	Type	Speaker	Title	Affiliation
13:00-13:20	Invited	Qinglin Jiang	Wearable thermoelectric materials and devices for self-powered electronic systems	South China University of Technology
13:20-13:40	Invited	Ranran Wang	Flexible, wearable sensitive materials and sensors	Shanghai Institute of Ceramics, CAS
13:40-14:00	Invited	Gang Wang	Semiconductor fiber for smart clothing	Donghua University
14:00-14:20	Invited	Qi Wang	Designing for active health through wearable 2.0	Tongji University
14:20-14:40	Invited	Xuefeng Lu	Novel polycyclic aromatic hydrocarbons: synthesis, properties, and transistor applications	Fudan University
14:40-15:00	Invited	Gang Liu	Organic memristor for neuromorphic edge computing	Shanghai Jiao Tong University
15:00-15:20	Invited	Peng Li	Engineered porous molecular coatings as reactive oxygen species generators and reservoirs for long-lasting self-cleaning textiles	Fudan University
15:20-15:40	Coffee Break			
15:40-16:00	Invited	Binghao Wang	Nanomesh electrodes and sensors for wearable electronics	Southeast University
16:00-16:20	Invited	Wei Huang	Metal oxide semiconductors via polymer incorporation for flexible transistors	University of Electronic Science and Technology of China
16:20-16:40	Invited	Xiangyu Chen	Triboelectric ploymer and self-powered system	Beijing Institute of Nanoenergy and Nanosystems, CAS
16:40-17:00	Invited	Xuqing Liu	Fibre surface and interfacial engineering on wearable electronics	The University of Manchester
17:00-17:20	Invited	Bo Fang	Scalable production of ultrafine polyaniline fibers	The Hong Kong Polytechnic University

PARALLEL SESSION

Fibers and Polymers for Medical Applications
生物医用纤维与聚合物

E

Oct. 18 Afternoon — Venue: Room No. 8

Moderators: Jiandong Ding, Yongming Chen

Time	Type	Speaker	Title	Affiliation
13:00-13:20	Keynote	Zhengzhong Shao	The relationships between mechanical properties and hierarchical structures of animal silk	Fudan University
13:20-13:40	Keynote	Shiyong Liu	In vivo identification and quantification of sequence-defined nanofibers	University of Science and Technology of China
13:40-14:00	Keynote	Xingyu Jiang	Liquid metal-polymer composites for wearable and implantable bioelectronics	South University of Science and Technology of China
14:00-14:20	Keynote	Huaping Xu	Combination therapy based on selenium-containing polymers	Tsinghua University
14:20-14:40	Keynote	Hao Wang	In vivo construction of peptide nano fibers for tumor theranostics	The National Center for Nanoscience and Technology
14:40-15:00	Keynote	Qiang Zhao	Long-lived phosphorescent probes for time-resolved luminescence bioimaging and photodynamic therapy	Nanjing University of Posts and Telecommunications
15:00-15:15	Invited	Zhengwei You	Biomimetic elastomers, 3D printing and their biomedical applications	Donghua University
15:15-15:30	Coffee Break			

Moderators: Zhengzhong Shao, Xin Su

15:30-15:50	Keynote	Jiandong Ding	Biodegradable occluder of polyester fibers for closure of atrial septal defect in heart	Fudan University
15:50-16:10	Keynote	Yongming Chen	Delivery materials and system for nanovaccine developments	Sun Yat-Sen University
16:10-16:30	Keynote	Wenguang Liu	Treating myocardial infarction with adhesive patch and injectable hydrogel strategies	Tianjin University
16:30-16:50	Keynote	Shutao Wang	Bio-inspired multiscale adhesive interfacial materials	Technical Institute of Physics and Chemistry, CAS
16:50-17:10	Keynote	Guosong Chen	Controlling macromolecular self-assembly by reactions and structures of saccharides	Fudan University
17:10-17:30	Invited	Zhigang Chen	Light/ultrasound-triggered organic-inorganic nanocomposites for efficient tumor theranostics	Donghua University
17:30-17:45	Oral	Lianxin Shi	Self-pumping functional textiles for accelerated wound healing and thermal management	Technical Institute of Physics and Chemistry, CAS

E

Fibers and Polymers for Medical Applications
生物医用纤维与聚合物

PARALLEL SESSION

Oct. 19 Morning — Venue: Room No. 8

Moderators: Xiumei Mo, Chuangliang Feng

Time	Type	Speaker	Title	Affiliation
08:35-08:55	Keynote	Gary Bowlin	Near-field electrospun vascular template/ graft designed for in situ regeneration	University of Memphis
08:55-09:15	Keynote	Lu Wang	Research experience on textile-based implantable device in soft-tissue reconstruction	Donghua University
09:15-09:30	Invited	Bee Chin Ang	Effect of core-to-shell flowrate ratio on morphology, mechanical properties and wettability of poly(lactic acid) fibers prepared via modified coaxial electrospinning	Universiti Malaya
09:30-09:45	Invited	Runhui Liu	Peptide mimicking antimicrobial polymers	East China Univeristy of Science and Technology
09:45-10:00	Invited	Wenguo Cui	Electrospun fibers as a “patch” for tissue regeneration	Ruijin Hospital, Shanghai Jiao Tong University School of Medicine
10:00-10:15	Coffee Break			

Moderators: Jingqiang Cui, Lu Wang

10:15-10:35	Keynote	Xiumei Mo	Electrospun nanofiber and nanoyarn for hard and soft tissue regeneration	Donghua University
10:35-10:50	Invited	Chuanliang Feng	Chiral hydrogel biomaterials	Shanghai Jiao Tong University
10:50-11:05	Invited	Chong Cheng	Designing smart and biocatalytic materials for antibacterial and antiviral biomedical applications	Sichuan University
11:05-11:20	Invited	Qiang Shi	Bio-mimic extracellular matrix fabricated with electrospinning to reduce thrombotic complications of vascular implants	Changchun Institute of Applied Chemistry, CAS
11:20-11:35	Invited	Yu Chen	Energy-converting nanomedicine and biomaterials.	Shanghai University

PARALLEL SESSION

Fibers and Polymers for Medical Applications
生物医用纤维与聚合物

E

Oct. 19 Afternoon — Venue: Room No. 8

Moderators: Jianzhong Du, Zhihong Nie

Time	Type	Speaker	Title	Affiliation
13:00-13:20	Keynote	Changyou Gao	Inflammation-modulating polymers for tissue repair and regeneration	Zhejiang University
13:20-13:40	Keynote	Changsheng Zhao	Polyethersulfone hollow fiber membranes for blood purification	Sichuan University
13:40-14:00	Keynote	Chaohui Tang	Self-amplifying active targeted drug delivery system based on chain reaction	Changchun Institute of Applied Chemistry, CAS
14:00-14:20	Keynote	Qigang Wang	Enzyme laden biomedical polymer hydrogels	Tongji University
14:20-14:35	Invited	Peng Yang	Amyloid-based proteinaceous biomaterials	Shaanxi Normal University
14:35-14:50	Invited	Chuanglong He	Construction of a nanofiber network within 3D printed scaffolds for vascularized bone regeneration	Donghua University
14:50-15:05	Invited	Xuemei Sun	Implantable flexible fiber biosensors for long-term monitoring	Fudan University
15:05-15:20	Invited	Bo Zhu	Biomimicking PEDOT materials and devices with selective electro-coupling to cells	Shanghai University
15:20-15:35	Coffee Break			

Moderators: Changyou Gao, Changsheng Zhao

15:35-15:55	Keynote	Jianzhong Du	Polymer vesicles for delivery of protein and nucleic acids	Tongji University
15:55-16:15	Keynote	Zhihong Nie	Engineering of hybrid nanovesicles for cancer theranostics	Fudan University
16:15-16:35	Keynote	Gareth Williams	Electrospun fibers for drug delivery: Some recent advances	University College London
16:35-16:55	Keynote	Joao Rodrigues	Ruthenium-based metallodendrimers, a nanotool in oncology: synthesis and pre-clinical studies	Universidade da Madeira
16:55-17:15	Keynote	Wolfgang Parak	Quantitative particle uptake by cells	University Hamburg
17:15-17:30	Invited	Qiang Wei	Cell mechanoresponse	Sichuan University
17:30-17:45	Invited	Yunlu Dai	Metal-phenolic networks (MPNs) - multifunctional biomedical nanoplatform	University of Macau
17:45-18:00	Invited	Jifu Mao	Bionic design and performance of functional sutures for tendon repair	Donghua University
18:00-18:10	Oral	Fatin Nadiah	Fineness characteristic of untreated dendrocalamus asper, schizostachyum grande, bambusa vittata, schizostachyum brachycladum, and bambusa blumeana bamboo fibers subject to mechanical extraction	Universiti Tun Hussein Onn Malaysia

E

Fibers and Polymers for Medical Applications
生物医用纤维与聚合物

PARALLEL SESSION

Oct. 20 Morning — Venue: Room No. 8

Moderators: Xiangyang Shi, Tong Wu

Time	Type	Speaker	Title	Affiliation
8:30-8:50	Keynote	Jingqiang Cui	Branching structured micro-nanofibrous membrane and fast liquid transportation	Henan Tuoren Medical Device Co., Ltd.
8:50-9:10	Keynote	Tao Yi	Tumor microenvironment responsive nano systems for diagnosis and treatment	Donghua University
9:10-9:25	Invited	Weifeng Zhao	Immunologically active fibrous scaffolds for advanced bone regeneration	Sichuan University
9:25-9:40	Invited	Ruiqi Xie	Magnetic guidance hemostats to complex bleeding wounds for instant hemostasis	Southwest University
9:40-9:50	Oral	Yun Qian	Functional nanomaterials and peripheral nerve regeneration	Sixth People's Hospital affiliated to Shanghai Jiao Tong University
9:50-10:00	Oral	Nuo Yu	Phototoxicity manipulation of highly-photosensitive phytochlorin	Donghua University
10:00-10:15	Coffee Break			

Moderators: Tao Yi, Ruiqi Xie

10:15-10:35	Keynote	Xiangyang Shi	Fibronectin-encapsulated nanocomplexes for cancer therapy through ferroptosis-enhanced immunogenic cell death	Donghua University
10:35-10:50	Invited	Tong Wu	Engraving the surface of electrospun microfibers with nanoscale grooves promotes the outgrowth of neurites and the migration of schwann cells	Qingdao University
10:50-11:05	Invited	Xiang Yao	Silk fibroin based biomaterials: functional fiber, film and scaffold	Donghua University
11:05-11:15	Oral	Haoyi Li	Process of melt electrowriting and prospects in tissue engineering	Beijing University of Chemical Technology
11:15-11:25	Oral	Hai Zhu	Self-pumping dressing with gas flow structure and exudate management	Xi'an Polytechnic University

PARALLEL SESSION

Environmentally Friendly Fibers and Polymers
环境友好纤维与聚合物

F

Oct. 18 Afternoon — Venue: Shanghai Hall

Moderators: Shiyan Chen, Yingying Zhang

Time	Type	Speaker	Title	Affiliation
13:00-13:30	Keynote	Yingying Zhang	Engineering of carbon and silk materials toward soft electronics	Tsinghua University
13:30-13:55	Invited	Bo Xiao	Killing seven birds with one stone: oral nanotherapeutics based on antheraea pernyi silk fibroin for effective treatment of ulcerative colitis	Southwest University
13:55-14:20	Invited	Ruigang Liu	Functional cellulose materials: molecular design and applications	Institute of Chemistry, CAS
14:20-14:45	Invited	Shiyan Chen	Scalable bacterial cellulose biofilms with improved ion transport for high osmotic power generation	Donghua University
14:45-15:10	Invited	Jun Xu	Determining the critical size of secondary nuclei of polymer lamellar crystals	Tsinghua University
15:10-15:25	Coffee Break			
Moderator: Ruigang Liu				
15:25-15:50	Invited	Wenjuan Zhang	Efficient bidentate metal complexes for ROP of cyclic esters	Beijing Institute of Fashion Technology
15:50-16:20	Keynote	Ana Leite Oliveira	Silk sericin-based hydrogel as an in situ forming technology for wound healing and regeneration	Universidade Católica Portuguesa
16:20-16:45	Invited	Jie Zhao	Biodegradable devices for environmental and medical applications	Fudan University
16:45-17:10	Invited	Yumei Gong	Modification of polysaccharide and the eco-friendly fiber fabrication	Dalian Polytechnic University
17:10-17:30	Oral	Xiang Mi	Dual-functional dithiol chain extender for regenerated keratin filaments tougher than natural feathers	Minjiang University

F

Environmentally Friendly Fibers and Polymers
环境友好纤维与聚合物

PARALLEL SESSION

Oct. 19 Morning — Venue: Room No. 6

Moderator: Qinye Bao

Time	Type	Speaker	Title	Affiliation
09:30-10:00	Keynote	Yaopeng Zhang	Silk fibroin fibers and functional materials	Donghua University
10:00-10:25	Invited	Dacheng Wei	Two-dimensional field-effect transistor sensors	Fudan University
10:25-10:50	Invited	Jie Cai	A high-efficiency, energy-saving and green route for fabrication of chitin-based materials	Wuhan University
Moderator: Dacheng Wei				
10:50-11:15	Invited	Jia Huang	Flexible sensors based on conjugated molecules	Tongji University
11:15-11:40	Invited	Qinye Bao	Spectroscopic characterization of conjugated polymer interfaces for organic electronics	East China Normal University
11:40-12:00	Keynote	Samuel Chigome	Electrospun fiber based materials for filtration applications	Botswana Institute for Technology Research and Innovation
12:00-12:25	Invited	Zuzhong Li	Investigation on surface modification of bagasse fiber: rheological properties of asphalt mortar	Chang'an University

PARALLEL SESSION

Fibers and Polymers for Energy Applications
能源用纤维与聚合物

G

Oct. 19 Morning — Venue: Yuegui Hall

Moderator: Changrong Zhu

Time	Type	Speaker	Title	Affiliation
08:30-08:55	Keynote	Xiangwu Zhang	Functional fibers and nanofibers for energy storage: past, present, and future	North Carolina State University
08:55-09:20	Keynote	Wenlong Cheng	Gold nanowire electronic skins, tattoos and fibres for sensing and energy applications	Monash University
09:20-09:35	Invited	Tianyu Liu	Novelty — dealing with the abstract concept	John Wiley & Sons Inc
09:35-09:50	Invited	Jian Fang	Nanofibrous materials in energy harvesting and storage	Soochow University
09:50-10:05	Invited	Kenji Katayama	Charge carrier mapping for Z-scheme photocatalytic water splitting sheet by categorization of microscopic time-resolved image sequence	Chuo University
10:05-10:15	Coffee Break			

Moderator: Shengyuan Yang

10:15-10:40	Keynote	Yingping Zou	A-DA'D-A type acceptor based organic solar cells	Central South University
10:40-10:55	Invited	Huan Pang	A highly alkaline-stable metal oxide@metal-organic framework composite for high-performance electrochemical energy storage	Yangzhou University
10:55-11:10	Invited	Wei Yuan	Enhanced polysulfide conversion using amorphous FeOx/carbon nanofibers for efficient lithium-sulfur batteries	South China University of Technology
11:10-11:25	Invited	Yuanlong Shao	Graphene reinforced hybrid functional fibers	Soochow University
11:25-11:40	Invited	Lifeng Chen	Biomass-based carbon nanomaterials for electrochemical energy storage	University of Science and Technology of China
11:40-11:55	Invited	Jianmin Li	Intercalation in two-dimensional MXenes toward electrochemical capacitor and beyond	Nanjing University of Posts and Telecommunications
11:55-12:05	Oral	Baojun Wang	Synergistic solvation and interface regulations of silk peptide additive enabling stable aqueous zinc-ion batteries	Donghua University
12:05-12:15	Oral	Yu Zhao	Multifunctional $Ti_3C_2T_x$ MXene additive for two-step-processed highly efficient perovskite solar cells	Donghua University

Oct. 19 Afternoon — Venue: Yuegui Hall

Moderator: Yuee Miao

Time	Type	Speaker	Title	Affiliation
13:00-13:25	Keynote	Huisheng Peng	High-performing fiber lithium-ion batteries	Fudan University

G

Fibers and Polymers for Energy Applications
能源用纤维与聚合物

PARALLEL SESSION

Oct. 19 Afternoon — Venue: Yuegui Hall

13:25-13:40	Invited	Jingsan Xu	The interfacial properties and catalytic applications of carbon nitrides	Queensland University of Technology
13:40-13:55	Invited	Zheng-Long Xu	Electrospun carbon nanofibers for advanced lithium sulfur batteries	The Hong Kong Polytechnic University
13:55-14:10	Invited	Yuming Chen	Electrospinning-based strategies for battery materials	Fujian Normal University
14:10-14:25	Invited	Kangkang Li	CSIRO amine based CO_2 capture and utilisation technology development for industrial decarbonation	Commonwealth Scientific and Industrial Research Organisation
14:25-14:40	Invited	Shengjie Peng	Rational design of electrospun nanofibers and their energy application	Nanjing University of Aeronautics and Astronautics
14:40-14:55	Invited	Weihua Chen	Separator construction and interfacial modification for high-performance sodium-ion batteries	Zhengzhou University
14:55-15:10	Invited	Xiaopeng Li	Crystalline nanofiber supported single atom catalysts	Donghua University
15:10-15:25	Coffee Break			
Moderators: Qi Xiao, Kerui Li				
15:25-15:50	Keynote	Yan Lu	Colloidal synthesis approach for energy materials	Helmholtz-Zentrum Berlin für Materialien und Energie
15:50-16:05	Invited	Alexander Lukin	Tailoring the graphene-based functional fibers for the high-end energetic materials: predictive plasma-driven activation and functionalization	Western-Caucasus Research Center
16:05-16:20	Invited	Patrick Theato	Polymers for energy storage: polymer cathodes and polymer electrolytes	Karlsruhe Institute of Technology (KIT)
16:20-16:35	Invited	Rajan Jose	Electrospun fibers for textile electronics	University Malaysia Pahang
16:35-16:50	Invited	Jianwei Nai	Functional organic/inorganic fibers for advanced lithium secondary batteries	Zhejiang University of Technology
16:50-17:05	Invited	Haizeng Li	Emerging Zn anode-based electrochromic devices	Shandong University
17:05-17:20	Invited	Qiuwei Shi	High performance flexible lithium battery based on organic/inorganic composite electrolyte	Nanjing University of Information Science and Technology
17:20-17:35	Invited	Tong Wu	Super-foldable conductive materials and energy storage devices for carbon-based nanofiber networks	Tongji University
17:35-17:45	Oral	Zixiao Liu	Hierarchical photothermal fabrics for solar seawater evaporation	Donghua University
17:45-17:55	Oral	Yeping Liu	Efficient construction of hierarchical nanostructure of polyaniline nanofibers for enhancing charge storage capacity through frozen interface polymerization	Donghua University
17:55-18:05	Oral	Chuanming Tian	Zinc salt additives strategy for crystal manipulation and defect passivation toward highly efficient and stable CH3NH3PbI3-based perovskite solar cells	Donghua University

PARALLEL SESSION

Multifunctional Integrated Materials and Fiber Devices
材料多功能集成与纤维器件

H

Oct. 18 Afternoon — Venue: Room No. 9

Moderator: Guangming Tao

Time	Type	Speaker	Title	Affiliation
13:00-13:30	Keynote	Yan Zhao	Stretchable semiconducting polymers and their application in organic transistors	Fudan University
13:30-13:50	Invited	Hao Bai	Ice-templating technique and its application in bioinspired functional materials	Zhejiang University
13:50-14:10	Invited	Xiaoshi Qian	Polymeric material systems for active cooling and thermal management	Shanghai Jiao Tong University
14:10-14:30	Invited	Mingwei Tian	Skin-contact actuated touch-sensing fabric with strain and pressure insensitive for human-computer interaction	Qingdao University
14:30-14:50	Invited	Xiangjun Liu	Engineering atomic structures of two-dimensional heterostructures for thermal management	Donghua University
14:50-15:20	Coffee Break			

Moderator: Hao Bai

15:20-15:40	Invited	Lei Zhang	Skin like wearable optical sensors based on micro/nanofibers	Zhejiang University
15:40-16:00	Invited	Kunyan Sui	Polysaccharide polyelectrolyte intelligent hydrogels	Qingdao University
16:00-16:20	Invited	Leilei Gu	Mimicking eyes with nanowire arrays	Shanghai Jiao Tong University
16:20-16:40	Invited	Pibo Ma	Knitting for wearables: sensing and energy	Jiangnan University
16:40-17:00	Invited	Xiaohua Zhang	Wet spinning of polyetherketoneketone fibers with superior mechanical and thermal properties	Donghua University

H

Multifunctional Integrated Materials and Fiber Devices
材料多功能集成与纤维器件

PARALLEL SESSION

Oct. 19 Morning — Venue: Room No. 9

Moderator: Shuguang Yang

Time	Type	Speaker	Title	Affiliation
9:30-9:50	Invited	Xiaoting Jia	Multifunctional fibers for wearable and implantable applications	Virginia Tech
9:50-10:10	Invited	Wei Yan	Advanced multi-material optoelectronic and electronic fiber devices	Massachusetts Institute of Technology
10:10-10:30	Invited	Conghua Lu	Sequentially differential microcracking for ultrasensitive stretchable fiber strain sensors	Tianjin Chengjian University
10:30-10:50	Invited	Shengjie Ling	Silk ionotronics	Shanghai Tech University
Moderator: Shengjie Ling				
10:50-11:10	Invited	Wei Chen	Intelligent health monitoring based on advanced soft materials	Fudan University
11:10-11:30	Invited	Shuguang Yang	Polymer complex fiber: adaptive behaviors and actuation	Donghua University
11:30-11:50	Invited	Xiaogang Luo	Flexible supercapacitors based on carbon nanotube fabrics	Soochow University

PARALLEL SESSION

Medical Protective Fibers and Health Materials
医用防护纤维与健康材料

I

Oct. 18 Afternoon — Venue: Room No. 11

Moderators: Xiangyu Jin, Tongyu Zhu

Time	Type	Speaker	Title	Affiliation
13:00-13:20	Keynote	Xiangyu Jin	Technological innovation and trends in spun-laced nonwovens	Donghua University
13:20-13:40	Keynote	Xingxiang Zhang	Using graphene to fabricate form-stable phase change materials and thermo-regulated fiber	Tianjin Polytechnic University
13:40-14:00	Invited	Guoyi Wu	Developmental methods to evaluate the antimicrobial efficacy of surfaces and textiles	Shanghai Public Health Clinical Center
14:00-14:20	Invited	Dong Wang	Fiber-based materials and its application in biosensing	Wuhan Textile University
14:20-14:35	Oral	Min Zhou	Peptide-mimicking poly(2-oxazoline)s displaying potent antimicrobial properties and alleviating antimicrobial resistance	East China University of Science and Technology
14:35-14:50	Oral	Lifei Wei	Synthetic fibers for medical protection	Shanghai Different Chemical Fiber Co., Ltd
14:50-15:05	Oral	Ran Cao	Benign synthesis of MOFs/fiber for ammonia capture and catalytic hydrolysis of an organophosphorus chemical	Donghua University
15:05-15:20	Coffee Break			
15:20-15:40	Keynote	Jing Guo	Preparation and biomedical applications of modified nanofiber membranes based on polyvinyl alcohol	Dalian Polytechnic University
15:40-16:00	Keynote	Piming Ma	Bioactive performance of lignin and its potential applications	Jiangnan University
16:00-16:20	Invited	Xing Wang	Antimicrobial fibers and textile based on stereochemical strategy	Beijing University of Chemical Technology
16:20-16:40	Invited	Hong Zhang	Study on enhancing drug loading and antibac terial performance of algal based medical fil m by the united double network structure	Dalian Polytechnic University
16:40-17:00	Invited	Yehu Lu	Investigation on thermal comfort property of medical protective clothing	Soochow University
17:00-17:15	Oral	Shan Chi	Preparation and properties of polyeater/ silica/tea active ingredient fiber	Qingdao Byherb New Material Co., Ltd
17:15-17:30	Oral	Chao Jia	Solution blow spun fibers for personal and environmental protection applications	Donghua University

J

Materials Genetic Engineering and Hybrid Fibers
材料基因工程与杂化纤维

PARALLEL SESSION

Oct. 18 Afternoon — Venue: Room No. 6

Moderators: Xuebin Wang, Xiaomin Xu

Time	Type	Speaker	Title	Affiliation
13:30-13:55	Invited	Xuebin Wang	Graphene and boron nitride foams for batteries and composite materials	Nanjing University
13:55-14:20	Invited	Jian Zhou	Phase transitions in materials under terahertz light	Xi'an Jiaotong University
14:20-14:45	Invited	Xin Wang	A materials genome approach towards fast-screening of comonomers for PAN-based carbon fiber	Songshan Lake Materials Laboratory
14:45-15:10	Invited	Yi Liu	Materials design accelerated by machine learning and first-principles computations	Shanghai University
15:10-15:35	Invited	Jidong Li	Topological hybrid fibrous membrane mediates tissue regeneration	Sichuan University
15:35-16:00	Coffee Break			
16:00-16:25	Invited	Ming Hu	Cellular respiration inspired multifunctional seawater battery based on prussian blue	East China Normal University
16:25-16:50	Invited	Xiaomin Xu	Ultraflexible optoelectronics: from microstructure engineering to wearable applications	Tsinghua Shenzhen International Graduate School
16:50-17:15	Invited	Liang Ma	Mechanisms of controllable growth and etching of two-dimensional materials	Southeast University
17:15-17:40	Invited	Qiang Zhu	Improvements of force fields guided by machine learning methods	Nanjing University

PARALLEL SESSION

Materials Genetic Engineering and Hybrid Fibers
材料基因工程与杂化纤维

J

Oct. 19 Afternoon — Venue: Room No. 6

Moderators: Yanfeng Gao, Linge Wang, Houyong Yu

Time	Type	Speaker	Title	Affiliation
13:30-13:55	Invited	Jing Ma	Machine learning models for material design	Nanjing University
13:55-14:20	Invited	Jianjun Liu	Efficient screening and design of highly active electrode materials through charge transfer capacity	Shanghai Institute of Ceramics, CAS
14:20-14:45	Invited	Bin Lv	Filexible and high-sensible perovskite@wool keratin piezoelectric film for human monitoring	Shaanxi University of Science & Technology
14:45-15:10	Invited	Houyong Yu	Functional nanocellulose-based hybrids for multi-functional sensors and energy devices	Zhejiang Sci-Tech University
15:10-15:35	Invited	Junliang Wang	Big data analytics for intelligent manufacturing of fiber products	Donghua University
15:35-16:00	Coffee Break			
16:00-16:25	Invited	Linge Wang	Electrospun ultrafine phase change fibers (pcfs) for thermal energy storage	South China University of Technology
16:25-16:50	Invited	Yuming Chen	(online) Li metal deposition and stripping in a solid-state battery via coble creep	Fujian Normal University
16:50-17:15	Invited	Chuanfei Guo	(online) E-skins with high pressure resolution, linear response, and tough interfaces	Southern University of Science and Technology
17:15-17:40	Invited	Dangge Gao	Fabrication of flexible bioderived carbon composite films based on the hydrolysate of waste leather scrap for electromagnetic shielding	Shaanxi University of Science & Technology

J

Materials Genetic Engineering and Hybrid Fibers
材料基因工程与杂化纤维

PARALLEL SESSION

Oct. 20 Morning — Venue: Room No. 6

Moderators: Jiaping Lin, Wenbing Hu

Time	Type	Speaker	Title	Affiliation
08:00-08:25	Invited	Siqi Shi	Reconciling the three major contradictions associated with machine learning in materials science by incorporating domain knowledge	Shanghai University
08:25-08:50	Invited	Wenbing Hu	How polymer repeating units decide stress relaxation in bulk amorphous phase	Nanjing University
08:50-09:15	Invited	Baohui Li	Polyhedral vesicles and polygonal nanosheets from solution-state self-assembly of miktoarm star quaterpolymers: a simulation study	Nankai University
09:15-09:40	Invited	Litang Yan	Transport of nanoscale objects on cell membrane: from passive to active particles	Tsinghua University
09:40-10:05	Invited	Xingkun Man	Swelling dynamics of a disk-shaped gel	Beihang University
10:05-10:20	Coffee Break			
10:20-10:45	Invited	Zhen-Gang Wang	(on line) Coil–globule transition in polymeric solvents	California Institute of Technology
10:45-11:10	Invited	Jiaping Lin	Design of high-performance composite matrix resin by a materials genome approach	East China University of Science and Technology
11:10-11:35	Invited	Weihua Li	Nonclassical ordered nanostructures from designed block copolymers	Fudan University
11:35-12:00	Invited	Xiaozheng Duan	Modeling electrostatic interactions in ionic polymeric soft-condensed systems	Changchun Institute of Applied Chemistry, CAS

PARALLEL SESSION

Aggregation-induced Emission Materials
聚集诱导发光材料

K

Oct. 18 Afternoon — Venue: Room No. 7

Moderator: Jun Qian

Time	Type	Speaker	Title	Affiliation
14:00-14:30	Keynote	Xinhua Wan	High performance nano-splitters containing AIE luminogens for stereoselective crystallization obtained via polymerization-induced self-assembly	Peking University
14:30-15:00	Keynote	Zhen Li	From single molecule to MUSIC	Tianjin University
15:00-15:30	Keynote	Xiang Ma	Assembling-induced organic room-temperature phosphorescence	East China University of Science and Technology
15:30-16:50	Invited	Shunjie Liu	NIR-II aiegen	Changchun Institute of Applied Chemistry, CAS
16:50-16:10	Invited	Ping Lu	High-efficiency aie-active materials and their application in oleds	Jilin University
16:10-16:30	Coffee Break			

Moderator: Xuefeng Lu

16:30-16:50	Invited	Jun Qian	AIE nanoprobes for NIR-II/NIR-IIb/NIR-IIx fluorescence in vivo functional bioimaging	Zhejiang University
16:50-17:10	Invited	Wenbo Wu	High performance AIE photosensitizers nanoparticles for biomedical application	Tianjin University
17:10-17:30	Invited	Qianqian Li	Optimization of molecular aggregates by structural modulation	Wuhan University

Oct. 19 Morning — Venue: Room No. 7

Moderator: Guogang Shan

Time	Type	Speaker	Title	Affiliation
09:40-10:10	Keynote	Anjun Qin	AIE polymer	South China University of Technology
10:10-10:30	Invited	Liang Luo	Multifunctional molecular probes for unimolecular cancer theranostics	Huazhong University of Science and Technology
10:30-10:50	Invited	Dong Wang	Construction of AIEgen-loaded nanofibers for solar steam generation and antibiosis	Shenzhen University
10:50-11:10	Invited	Zhennan Wu	AIE-type metal nanoclusters: directed self-assembly for controlled emission	Jilin University
11:10-11:30	Invited	Ying Wang	Open the editor's black-box and wiley chemistry partner journal opportunities	Editor, Wiley

K

Aggregation-induced Emission Materials
聚集诱导发光材料

PARALLEL SESSION

Oct. 19 Afternoon — Venue: Room No. 7

Moderator: Ju Mei

Time	Type	Speaker	Title	Affiliation
13:50-14:10	Invited	Xuzhou Yan	Aggregation-induced emission on supramolecular coordination complexes platforms	Shanghai Jiao Tong University
14:10-14:30	Invited	Runfeng Chen	The design and applications of organic ultralong room-temperature phosphorescence materials	Nanjing Univeristy of Posts and Telecommunications
14:30-14:50	Invited	Haoke Zhang	Through-space interactions in clusteroluminescence	Zhejiang University
14:50-15:10	Invited	Jiajun Zhu	How to get published in nature and its sister journals	Editor, Springer Nature
15:10-15:30	Coffee Break			

Moderator: Haoke Zhang

Time	Type	Speaker	Title	Affiliation
15:30-16:00	Keynote	Weihong Zhu	Long wavelength AIEgen of quinoline-malononitrile	East China University of Science and Technology
16:00-16:20	Invited	Ju Mei	Integrating aggregation-induced emission (AIE) with vibration-induced emission (VIE) for the development of advanced materials	East China University of Science and Technology
16:20-16:40	Invited	Hongwei Wu	Improving the luminous efficiency of organic molecules by structural design and coassembly	Donghua University
16:40-17:00	Invited	Xiaoxiao Yu	Enantiomeric switching of the circularly polarized luminescence processes in a hierarchical biomimetic system by film tilting	Donghua University

PARALLEL SESSION

Gelatinous Fiber and Intelligent Devices
凝胶纤维与智能器件

L

Oct. 18 Afternoon — Venue: Room No. 5

Moderators: Yanlei Yu, Liqiang Mai

Time	Type	Speaker	Title	Affiliation
13:30-13:55	Keynote	Yanlei Yu	Novel photodeformable liquid crystal polymers and fiber actuators	Fudan University
13:55-14:15	Invited	Si Wu	Polymers for photoinduced reversible solid-to-liquid transitions	University of Science and Technology of China
14:15-14:35	Invited	Xiaokong Liu	Hydrogen-bonded supramolecular plastics and elastomers with superhigh strength and ultrahigh toughness	Jilin University
14:35-14:55	Invited	Ji Liu	Hydrogels with unprecedented mechanics for human-machine interfacing	Southern University of Science and Technology
14:55-15:15	Invited	Dabiao Liu	Spider silk acts as a smart actuator	Huazhong University of Science and Technology
15:15-15:35	Invited	Wei Sun	Highly transparent, stretchable, and self-healable ionogel for multifunctional sensors, triboelectric nanogenerator, and wearable fibrous electronics	Donghua University
15:35-15:55	Coffee Break			
15:55-16:20	Keynote	Liqiang Mai	Flexible one-dimensional nanomaterials for emerging energy storage	Wuhan University of Technology
16:20-16:40	Invited	Jiawei Zhang	Bio-inspired polymeric hydrogel actuators	Ningbo Institute of Material Technology and Engineering, CAS
16:40-17:00	Invited	Zhisong Lu	Thread/yarn-based microfluidic devices for wearable applications	Southwest University
17:00-17:20	Invited	Xing Fan	Fabric-type solar-powered integrated electronic circuit	Chongqing University
17:20-17:40	Invited	Liqian Wang	Publishing with Wiley- Materials Science and Physics	John Wiley & Sons (Wiley)

L

Gelatinous Fiber and Intelligent Devices
凝胶纤维与智能器件

PARALLEL SESSION

Oct. 19 Morning — Venue: Room No. 5

Moderators: Ting Zhang, Zunfeng Liu

Time	Type	Speaker	Title	Affiliation
09:30-09:55	Keynote	Ting Zhang	Flexible and wearable sensing electronics: from fundamental aspect to applications	Suzhou Institute of Nano-Tech and Nano-Bionics, CAS
09:55-10:15	Invited	Ling Wang	Stimulus-driven liquid metal and liquid crystal smart actuators for programmable soft robotics	Tianjin University
10:15-10:30	Coffee Break			
10:30-10:55	Keynote	Zunfeng Liu	Periodically curved fiber materials for artificial muscles, electronics, and other smart fibers	Nankai University
10:55-11:15	Invited	Peining Chen	Display textile and functional system based on polymer composite fiber electrodes	Fudan University
11:15-11:35	Invited	Enlai Gao	Computational design of ultra-high-performance fibers	Wuhan University
11:35-11:55	Invited	Ya Di	飞行员防护救生技术报告	Wuhan Innovation Center, AVIC Aerospace Life-Support Industries, Ltd.

PARALLEL SESSION

Gelatinous Fiber and Intelligent Devices
凝胶纤维与智能器件

L

Oct. 19 Afternoon — Venue: Room No. 5

Moderators: Xuming Xie, Qunfeng Cheng

Time	Type	Speaker	Title	Affiliation
14:00-14:25	Keynote	Xuming Xie	Super tough and intelligent multi-bond network (MBN) hydrogels facilitated by mxene nanosheets	Tsinghua University
14:25-14:45	Invited	Jun Fu	Zwitterionic hydrogel based tissue adhesive sensors	Sun Yat-sen University
14:45-15:05	Invited	Wei Liu	Two-dimensional conjugated aromatic polymers for energy applications	Southeast University
15:05-15:25	Invited	Xiong Pu	Flexible mechano-to-electrical energy conversion materials and devices	Beijing Institute of Nanoenergy and Nanosystems, CAS
15:25-15:45	Invited	Zheng Cao	Preparation of the self-assembled poly(N-isopropylacrylamide) microgel/graphene oxide material and its gas sensor application based on quartz crystal microbalance	Changzhou University
15:45-15:55	Coffee Break			
15:55-16:20	Keynote	Qunfeng Cheng	Bioinspired polymer nanocomposites	Beihang University
16:20-16:40	Invited	Yulan Chen	Mechanoluminescent polymers	Jilin University
16:40-17:00	Invited	Kun Dai	Tuning of microstructure and strain sensing performance of wearable and functional fibrous mat	Zhengzhou University
17:00-17:20	Invited	Gengzhi Sun	Microstructure control of graphene oxide gel fibers for enhanced charge storage	Nanjing Tech University
17:20-17:40	Invited	Donghui Zhang	A new type of anti-foreign-body response material inspired by silk protein	East China University of Science and Technology

L online

Gelatinous Fiber and Intelligent Devices
凝胶纤维与智能器件

PARALLEL SESSION

Oct. 20 Morning — Venue: Room No. 5

Moderators: Geoff Spinks, Jinlian Hu

Time	Type	Speaker	Title	Affiliation
09:00-09:25	Keynote	Geoff Spinks	Supercoiling artificial muscle fibres	University of Wollongong
09:25-09:50	Keynote	Zhuangjian Liu	Multi-physical numerical modelling of hybrid flexible sensor	Institute of High Performance Computing, A*STAR Research Entities
09:50-10:15	Keynote	Jinlian Hu	Artificial spider silks and their bottleneck	City University of Hong Kong
10:15-10:40	Keynote	Luyi Sun	Bioinspired surface engineering for mechanochromism and thermal management	University of Connecticut
10:40-10:50	Coffee Break			
10:50-11:15	Keynote	Wei Chen	Towards performance breakthrough in artificial muscle for wearable applications	The Hong Kong Polytechnic University
11:15-11:40	Keynote	Ko Seung Hwan	Nanowire based transparent electronics with stretchability/flexibility	Seoul National University

PARALLEL SESSION

Development of Fiber Industry and Alumni Forum
纤维产业发展与校友论坛

N

Oct. 19 Morning — Venue: Room No. 11

Moderator: Huaping Wang

Time	Type	Speaker	Title	Affiliation
9:00-9:25	Invited	Zhangsheng Luo	闪蒸法医用防护纤维与健康材料	Xiamen Dangsheng New Materials Co. Ltd
9:25-9:50	Invited	Fang Li	The release of microplastic fibers from wiping materials and masks	Donghua University
9:50-10:15	Invited	Bin Sun	有机无机杂化绿色钛系缩聚催化剂及其聚酯工业应用	Donghua University
10:15-10:30	Coffee Break			
10:30-10:55	Invited	Dong Wang	智能纤维的制备及产业化研究	Wuhan Textile University
10:55-11:20	Invited	Hua Wang	The preparation and properties of para-aramid /polyphenylene sulfide composites by wet papermaking	Wuhan Textile University
11:20-11:45	Invited	Zhaomin Li	微创伤介入医疗中空纤维管制备关键技术与应用	Shanghai Minimal Invasive Medical Device (Group) Co., Ltd

Oct. 19 Afternoon — Venue: Room No. 11

Moderator: Long Chen

Time	Type	Speaker	Title	Affiliation
13:00-13:25	Invited	Zhe Zhou	有机无机杂化构筑多功能纤维材料	Donghua University
13:25-13:50	Invited	Chuncai Zhao	聚酯民用长丝产业进展	Xinfengming Group Co., Ltd
13:50-14:15	Invited	Huaping Wang	低碳背景下纤维产业发展趋势	Donghua University
14:15-14:35	Oral	Guojie Xu	电纺微纳三维打印在生物医药领域的应用	Guangdong University of Technology
14:35-14:55	Oral	Peng Chen	磁透镜静电纺丝纤维的可控制备机理研究	Donghua University
14:55-15:10	Coffee Break			

O

Innovation Forum for International Digital Health and Intelligent Materials
国际数字健康与智能材料创新论坛

PARALLEL SESSION

Oct. 18 Afternoon — Venue: Yuegui Hall

Moderator: Zhongjie Huang

Time	Type	Speaker	Title	Affiliation
14:00-14:15	Welcome Message	Zhaoping Lv Xingfa Ma Fengling Qing	Welcome message	China Association for Science and Technology Shanghai Association for Science and Technology Donghua University
14:15-14:35	Keynote	Meifang Zhu	International scientific collaborations in recent world with major changes	Donghua University
14:35-14:55	Keynote	Henry Yi Li	The science of digital health and key technological challenges-eu horizon strategies and opportunities	The University of Manchester
14:55-15:05	Invited	Gang Wang	IDHIMIA annual report	Donghua University
15:05-15:25	Invited	Steve Beeby	Innovations in wearable e-textile sensors	University of Southampton
15:25-15:45	Invited	Shange Xie	Reconfigurable soft robotic exoskeleton with enhanced autonomy and intelligent for effective home-based stroke rehabilitation	University of Leeds
15:45-16:05	Invited	Meng Yi	Enabling application of near infrared and blockchain technologies in technologies in waste textile recycling/reuse industries	Haier Group
16:05-16:25	Invited	Tongyu Zhu	to be advised	Shanghai Public Health Clinical Center
16:25-16:45	Invited	Jingqiang Cui	The antibacterial and antiviral materials of health & epidemic prevention and industrialization research	Tuoren Medical Device Group Co., Ltd.

POSTER PRESENTATIONS

NO.	TITLE	PRSENTER	AFFILIATION
P-A-01	Tentative confinement of ionic liquids in Nylon 6 fibres: a temporal weakening of the hydrogen bonds for the sake of obtaining high performance properties	Ahmed Dawelbeit	Donghua University
P-A-02	Preparation and characterization of thermoplastic poly(vinyl alcohol) using imidazolium-based ionic liquids as plasticizers	Chao Wang	Donghua University
P-A-03	Continuous preparation of high-conductivity lignin-based carbon nanotube fibers	Fuyao Liu	Donghua University
P-A-04	In situ preparation of nitrogen doped carbon nanotube films for photocatalytic degradation of wastewater	Gongxun Zhai	Donghua University
P-A-05	Synthesis of syndiotacticity-rich, high polymerization degree PVA polymers with VAc and VBz, properties of PVA Fibers with high-strength, high-modulus by wet spinning	Huajun Wang	Donghua University
P-A-06	Preparation of PAN/PVP hygroscopic composite electrospun nanofiber membrane desiccant	Jingli Zhao	Beijing Institute of Fashion Technology
P-A-07	Research progress in the Preparation of low-cost polyacrylonitrile based carbon fibers by melt spinning	Na Han	Tiangong University
P-A-08	High-strength superstretchable helical bacterial cellulose fibers with a “self-fiber-reinforced structure”	Qianqian Liang	Donghua University
P-A-09	Improvement of flame retardancy of polyamide 6 via copolymerizing with phosphine oxide derivative	Shuang Chen	Donghua University
P-A-10	Adsorption assisted TFNC membrane for removal of Pb(II) and other contaminants with high efficiency	Tonghui Zhang	Donghua University
P-A-11	One-step hydrothermal deposition of Ag-doped g-C3N4-TiO2 nanocomposites on cotton fabric surface with enhanced photocatalytic activity	Wenjun Li	Xi'an Polytechnic University
P-A-12	Flexible and thermal-stable SiO2/ZrO2 hybrid nanofiber membranes for high-temperature thermal insulation	Xiaoshan Zhang	National University of Defense Technology
P-A-13	Study of thermosetting PPO resin for high speed copper clad laminate of the 5th generation (5G) communications	Xinjun Zhu	Luoyang Institute of Science and Technology
P-A-14	The fabrication of sea-island polyphenylene sulfide ultrafine fiber	Yan Yu	Donghua University
P-B-01	Thermodynamic behavior of interpolymer complexes assessed by isothermal titration calorimetry in organic solution system	Caihong Zhang	Donghua University
P-B-02	Formation and properties of surface structured melt-spun polymer blend fibers	Fang Zhou	Donghua University
P-B-03	Hollow polyacrylonitrile bubble fiber: crystalline and pore design	Liang Wang	Tiangong University

POSTER PRESENTATIONS

NO.	TITLE	PRSENTER	AFFILIATION
P-B-04	Numerical simulation of electrospun polyacrylonitrile Taylor cone based on multiphysics coupling	Peng Chen	Donghua University
P-C-01	Ni or Co single atomic anchored conjugated microporous polymer for high-performance photocatalytic hydrogen evolution	Chen Yang	Donghua University
P-C-02	Studies on the preparation and performance of conductive polymer-based elastic hydrogel fibers	He Liu	Donghua University
P-C-03	Ultra-high molecular weight polyethylene shish-kebab membrane for direct contact membrane distillation	Jiayou Quan	Donghua University
P-C-04	Research on temperature-responsive electrospun nanofibers that can be crimped by heating	Jinzhong Zhang	Donghua University
P-C-05	Ultra-light, mechanically strong PI/CNF composite nanofiber aerogel as heat insulation material	Shiya Qiao	Donghua University
P-C-06	Gold Recovery from E-waste by Triazole-based Porous Poly(ionic liquid)s	Xinghao Li	Donghua University
P-C-07	PVA/PVDF film with a wettability gradient surface	Yiyang E	Southern University of Science and Technology
P-C-08	Rapid metal-free synthesis of pyridyl-functionalized conjugated microporous polymers for visible-light-driven water splitting	Zhonghua Cheng	Donghua University
P-D-01	Thermal-assisted brush printing of water-based In-Ga-Zn oxide transistors	Chenhong Zhang	Donghua University
P-D-02	Wrinkled polymer fibers composed of carbon nanotubes for flexible and highly sensitive strain sensors	Enping Liu	Tianjin University
P-D-03	Self-healing ionogel for diverse electronic applications	Hongfei Huang	Donghua University
P-D-04	Ephemere: electrospun nanofibers with pH-responsive operational factors for controlling of chemotherapeutic drugs release performance	Jianhua Lu	Xi'an Polytechnic University
P-D-05	Origami silk fibroin film enabled by gradient structure	Jie Chen	Donghua University
P-D-06	Continuous wet-spinning of wool-keratin fiber with silk-like toughness via dithiol chain extending	Jin Zhu	Beijing Graphene Institute
P-D-07	Stretchable wrinkled RGO@PDMS fiber strain sensor for human motion detection	Lele Li	Tianjin University
P-D-08	Graphene enhancement of regenerated wool keratin hybrid fiber for muscle-like training actuator	Liang Zhang	Soochow University
P-D-09	Reinforcing wool keratin fibers via secondary structure transformation from “snowing” graphene hybridization	Ning Ma	Beijing Graphene Institute

POSTER PRESENTATIONS

NO.	TITLE	PRSENTER	AFFILIATION
P-D-10	Readily fabricated, biodegradable, biocompatible PEDOT:PSS/PGSH electrode for stretchable electronics	Sihan Jiang	Donghua University
P-D-11	An integrated flexible multifunctional wearable textile-based composites for personal healthcare	Siyi Bi	Fudan University
P-D-12	Carbon-based thin-film actuator with 1D to 2D transitional structure applied in smart clothing	Yangmin Jing	Donghua University
P-D-13	Flexible and stretchable thermoelectric cooling devices by liquid metal	Yunhe Xu	Donghua University
P-E-01	4-Axis printing microfibrous tubular scaffold and tracheal cartilage application	Ao Shen	Donghua Univeristy
P-E-02	MoS2/PLA composite nanofiber membrane with photothermal /photodynamic function for synergistic antibacterial activity	Bingjie Xu	Zhejiang Sci-Tech University
P-E-03	Self-healing polyurethane-elastomer with mechanical tunability for multiple biomedical applications in vivo	Chenyu Jiang	Shanghai Jiao Tong University
P-E-04	Enabling topical and long-term anti-ROS properties for percutaneous coronary intervention-related complications by incorporating TEMPOL into electrospun nanofibers	Jian Lu	Donghua Univeristy
P-E-05	Peptidoglycan-inspired autonomous ultrafast self-healing bio-friendly elastomers for bio-integrated electronics	Luzhi Zhang	Donghua Univeristy
P-E-06	Cascaded enzymes-loaded Fe-Hemoporfin framework for synergistic sonodynamic-starvation therapy of tumors	Mei Wen	Donghua Univeristy
P-E-07	Sub-5 nm Gd3+-hemoporfin framework nanodots for augmented sonodynamic theranostics and fast renal clearance	Peng Geng	Donghua Univeristy
P-E-08	Electrospun fibrous membrane of amino acid-based poly(ester-urethane-urea) for a potential application as small-diameter vascular grafts	Shan Bai	Tianjin University
P-E-09	Glycosyl-functionalized -polylysine with enhanced cryopreservation of human erythrocytes	Shuhui Gao	Tianjin University
P-E-10	Multifunctional fibrous membrane with drug-loaded core-shell structure for vascularized bone regeneration	Shue Jin	Sichuan University
P-E-11	Mechanically and biologically skin-like elastomers for bio-integrated electronics	Shuo Chen	Shanghai Jiao Tong University
P-E-12	Composite polymer fibers for displaying patterns	Sunny Shulei Peng	Fudan University
P-E-13	Silk medical suture with sustainable antibacterial and anti-inflammatory function	Xuchen Wang	Soochow University
P-F-01	Improving the stability of polymer complex beads by thermal treatment	Ali A. Altam	Donghua University

POSTER PRESENTATIONS

NO.	TITLE	PRSENTER	AFFILIATION
P-F-02	One-pot synthesis of aminated cellulose nanocrystals	Jiayin Wu	Minjiang University
P-F-03	Synergistic effect of reduced graphene oxide and carbon nanotube on cellulose-based solar steam generator	Mengtian Jin	Donghua University
P-F-04	Iron ions-coordinated poly(acrylic acid) fiber as a stable Fenton catalyst for methylene blue decolorization	Yanxin Zhang	Tiangong University
P-F-05	A dynamically hybrid crosslinked elastomer for room-temperature recyclable flexible electronic devices	Yifan Guo	Donghua University
P-F-06	Scalable bacterial cellulose biofilms with improved ion transport for high osmotic power generation	Zhuotong Wu	Donghua University
P-G-01	Thermoelectric fibers for wearable devices	Bo Wu	Donghua University
P-G-02	Setaria viridis-inspired electrode with polyaniline decorated on porous heteroatom-doped carbon nanofibers for flexible supercapacitors	Jianhua Zhu	Donghua University
P-G-03	Biomimetic crumple-like micro-texture for environmental and energy storage applications	Kerui Li	Donghua University
P-G-04	3D printed reduced graphene oxide/polyimide nanofibers composite aerogel for stable lithium metal anode	Lulu Mo	Donghua University
P-G-05	Preparation of Ga-La5Ti2Cu0.9Ag0.107S5 oxysulfide photocatalyst with improved hydrogen evolution activity by post-treatment and co-catalyst loading	Qi Xiao	Donghua University
P-G-06	Surface sulfonated polyaniline nanofibers for enhancing efficient charge storage capability through flowing polymerization method	Shuo Hu	Donghua University
P-G-07	Enhancing the electrochemical performance of sodium-ion batteries by building optimized NiS2/NiSe2 heterostructures	Shuang He	Donghua University
P-G-08	Study on preparation and performance of carbon paper for fuel cell	Yipeng Mao	Donghua University
P-G-09	High performance polyaniline nanofibers enable efficient energy storage via sustainable and scalable flowing polymerization for flexible supercapacitors	Yueying Shen	Donghua University
P-G-10	Activated carbon nanotube fiber fabric as a high-performance flexible electrode for solid-state supercapacitors	Yunxia Liang	Donghua University
P-G-11	Study on crosslinked of POE with UV irradiation	Xuguang Kong	Donghua University
P-G-12	Highly stable RTILs-based electrochromic system	Ziqiu Lu	Donghua University
P-H-01	Touch-sensing fabric encapsulated with hydrogel for human-computer interaction	Ruidong Xu	Qingdao university

POSTER PRESENTATIONS

NO.	TITLE	PRSENTER	AFFILIATION
P-H-02	Compression strain-dependent tubular carbon nanofibers/ graphene aerogel absorber with ultrabroad absorption band	Shuai Kang	Donghua University
P-H-03	Stimulus-driven liquid metal and liquid crystal network actuators for programmable soft robotics	Shukuan Shi	Tianjin University
P-H-04	Preparation and properties of EVOH nanofiber aerogel-based adsorption materials	Wei Song	Donghua University
P-H-05	Hydrogen-bond associated elastomer with high toughness, humidity adaptivity and pH actuation ability	Weijie Wang	Donghua University
P-H-06	A new strategy of discretionarily reconfigurable actuators based on self-healing elastomers for diverse soft robots	Wenfan Zhu	Donghua University
P-H-07	Vanadium-doped cobalt phosphide/carbon nanofiber cloth catalysts for efficient and stable overall water splitting	Xiangheng Du	Donghua University
P-I-01	Preparation and properties of UV-cured strippable film for radioactive decontamination	Huiyuan Zhang	Donghua University
P-I-02	Antibacterial plant essential oil regenerated cellulose fibers constructed by ionic liquid	Le Zhou	Institute of Process Engineering, Chinese Academy of Sciences
P-I-03	Ultra-fast bacterial inactivation of Cu2O@HNTs nanohybrids with charge adsorption and physical piercing ability for medical protective fabrics	Yaping Wang	Donghua University
P-I-04	Study on the synthesis of isotope-labeled deltamethrin-D5	Zhongjie Xu	Donghua University
P-J-01	3D-printed strong hybrid materials with low shrinkage for dental restoration	Menglu Zhao	Donghua University
P-K-01	Temperature-independent ultralong organic phosphorescence with a symmetrical butterfly-type structure	Hui Xiao	Liming Vocational University
P-K-02	Tunable photoluminescence properties of microcrystalline cellulose with gradually changing crystallinity and crystal form	Man Liu	Zhejiang Sci-tech University
P-L-01	Integrated dynamic wet spinning of core-sheath hydrogel fibers for optical-to-brain/tissue communications	Guoyin Chen	Donghua University
P-L-02	Bioinspired hierarchical helical nanocomposite gel fibers with rapid kinetic energy dissipation and hygroscopic actuation	Tao Chen	Donghua University
P-L-03	3D printing of low concentartion GelMA-based scaffolds with nanoclay	Xiaokang Liu	Donghua University

POSTER PRESENTATIONS

NO.	TITLE	PRSENTER	AFFILIATION
P-L-04	Thermoplastic photoheating polymer enables 3D-printed self-healing light-propelled smart devices	Huixia Xuan	Donghua University
P-M-01	In-situ synthesis of aramid nanomaterials and its application in ultrafiltration membranes	Peng Guo	Ludong University
P-M-02	Study on preparation and performance of nano-silver antibacterial aramid fiber	Xiangyu Kong	Ludong University
P-M-03	Preparation and properties of para-aramid/crosslinked dendrimer silver-plated fibe	Xue Geng	Ludong University
P-N-01	Preparation of hydroxyl functionalized polypropylene/ polypropylene composite fiber by melt spinning	Licheng Wang	Donghua University
P-N-02	Preparation and properties of modified viscose large bio-fiber from Baicaoyuan tea	Shan Chi	Baishiji Materials (Qingdao) Co., Ltd.
P-N-03	Study on wormwood modified polyester fiber and its performance	Yanming Liu	Zhongke Textile Research Institute (Qingdao) Co., Ltd.
P-N-04	Preparation and application of flexible magnetoelectric fiber based on magnetic powder/silica gel/liquid metal wire	Zhuolin Du	Huazhong University of Science and Technology

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TUOREN MEDICAL DEVICE

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Since its foundation, Tuoren keeps moving on. By now Tuoren has had over 55 subsidiaries, more than 220 kinds of products with over 1880 specifications mainly in the field of Anesthesia, Pain Management, Nursing, Diagnostics, Surgery, Hemodialysis and Intervention.

Widely recognized for its superior service, competitive price and innovative value-added solutions, Tuoren is dedicated to designing, developing and distributing safe, user-friendly and state-of-the-art medical devices to its customers.

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Established in 2017

TUOREN MEDICAL DEVICE

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Research and Development Platform

As an important supporting force for the sustainable development of the company, Tuoren invested more than 80 million yuan to build a national-level laboratory and successfully passed the CNAS (China National Accreditation Service for Conformity Assessment) certification, in which the medical polymer materials laboratory was awarded to the national petroleum and chemical industry medical catheter polymer material engineering laboratory. Tuoren Medical has successively established joint research and development centers with many well-known domestic universities such as Beijing University of Aeronautics and Astronautics, Tsinghua University, Peking University, Beijing University of Chemical Technology and Zhengzhou University.

Museum of Medical Sciences

To assist the development of Chinese Medicine, Tuoren Medical invested more than 100 million yuan to build the first museum of general medical sciences in 2015, which covers an area of 8,000 m². It consists of Medical History Museum, Nursing History Museum of China, Anesthesia Museum of China, Blood Purification History Museum, Healthcare History Museum of China Comprehensive Hall, ect. The Museum of medical sciences has many multi-functional meeting rooms, which can undertake various forms ofexchange activities such as academic exchanges, industry forums, and inspirationaleducation.

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厦门延江新材料股份有限公司
XIAMEN YANJAN NEW MATERIAL CO., LTD.

Xiamen Yanjan New Material Co., Ltd, with its headquarter located in Xiamen, China, is a professional liner material supplier for disposable hygiene products. Our major portfolio includes: PE Perforated film, 3D aperture Non-woven, Hot Air Through Non-woven, ADL surge, etc. These products are widely applied on sanitary napkins, pads, adult and bay diapers, as well as medical and food packagings.

Currently over 1,000 workers are within Yanjan family, in 8 different locations worldwide. For all the past years, Yanjan always dedicates ourselves in ceaseless innovations for our customers and consumers. We believe in our heart that through continuous effort in bringing the market with newest technology equipped product, we can help our customer succeed and win their trust and support.

厦门延江新材料股份有限公司，总部位于中国福建厦门，是一家专业生产即弃卫生用品表层材料的供应商；主要产品包括 PE 打孔膜、3D 打孔无纺布、热风无纺布、ADL 导流层等。产品应用于卫生巾、护垫、婴儿和成人纸尿裤以及医疗和食品包装等行业。

目前延江在全球拥有 8 个工厂，员工超过 1000 人。多年来，延江始终和我们的客户一起密切合作，持续创新，不断为市场提供全新的技术和价值，共同赢得了市场，从而得到我们客户的信赖和支持。

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Jinda Nano Tech. (Xiamen) Co., Ltd. integrates the research, development, production and sales of nano-functional materials. It is a leading enterprise in nano-technology application in China. Successively obtained "National High-tech Enterprise", "National Specialized New "Little Giant" Enterprise,small giant leading enterprises in science and technology in Fujian Province, Intellectual Property Advantage Enterprises in Fujian Province and other honorary titles.

晋大主打四大核心产品:抗菌粉体、抗菌溶液、抗菌母粒、抗菌纱线。产品具有稳定、持久的抗菌性,优秀的耐温性,广谱抗菌性,适用性广等特点,并已通过如瑞士通标SGS、德国莱茵TUV、广东省微生物分析检测中心、广州工业微生物检测中心、上海市疾病预防控制中心等权威机构检测;产品广泛应用于纺织、鞋材、建材、医疗、卫生、国防、保健、环境、农业、化妆品等领域,深受广大客户的青睐、好评与信任。

The company's four core products: antimicrobial powder, antimicrobial solution, antimicrobial masterbatch, antimicrobial yarn. The product has the characteristics of stable and long lasting antimicrobial activity, excellent temperature resistance, broad-spectrum antimicrobial activity and wide applicability. It has been tested by authoritative organizations such as Swiss Standard SGS, German Rhine TUV, Guangdong Microbial Analysis and Testing Center, Guangzhou Industrial Microbial Testing Center, Shanghai Center for Disease Control and Prevention, etc. Widely used in textiles, shoes, building materials, medical, health, national defense, health care, environment, agriculture, cosmetics and other fields, by the majority of customers favor, praise and trust.

作为中国抗菌行业标杆企业,晋大科技引领行业市场,先后获得国家专利40余项及“中国精准医学科技进步奖”、“中国抗菌产业十大影响力品牌”、“中国抗菌制品(材料)国际展览会金奖产品”、“中国绿色建材推荐产品”、“新能源产业优秀项目奖”、“厦门优质品牌”、厦门市专利奖三等奖等殊荣。

As a leading brand in China's antibacterial industry, Jinda Science and Technology leads the industry market, and has won more than 40 national patents and "China Precision Medical Science and Technology Progress Award", "China's Top Ten Influential Brands of Antibacterial Industry", "China's Antibacterial Products (Materials) International Exhibition Gold Prize Products", "China's Green Building Materials Recommended Products" and "New Energy Industry Excellent Project Award". "Xiamen High Quality Brand" and the third prize of Xiamen Patent Award.

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Adhering to the business philosophy of "integrity, innovation, win-win, sustainable", Jinda Nano Tech. wholeheartedly provides nanomaterials and nanotechnology application solutions for all industries; cooperates closely with well-known brands at home and abroad to help traditional industries transform and upgrade; actively responds to the strategy of "healthy China" to make nanotechnology products benefit all the people's livelihood.

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Hangzhou Zhuoxiang Technology Co., Ltd

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Hangzhou Zhuoxiang Technology Co., Ltd. has been committed to the use of Black viscometercharacterization of polymer intrinsic viscosity (polar viscosity), viscosivity moleculesVolume, specific viscosity, viscosity ratio, degree of polymerization and other indicators ofinstrument production and service team.

公司目前已经服务与几十种聚合物的研发及生产，包括 PET、PBT、PA、PP、PE、PES、PVC、PAM、PAA、PVDF、ACR、POM、PAAS、HA、PLA 、PGA、PLGA、PMMA、PAN、PC、PEEK、PEK、PBAT、纤维素、多糖及有机硅等高分子聚合物材料。

The company has been engaged in the r&d and production of dozens of polymers. Including PET, PBT,PA, PP, PE, PES, PVC, PAM, PAA, PVDF, ACR, POM, PAAS, HA, PLA, PGA, PLGA, PMMA, PAN, PC, PEEK, PEK,PBAT, cellulose, polysaccharide and silicone and other polymer materials.

卓祥科技团队一直以市场应用为企业的服务宗旨，开发出了 AVM、IV8000X、IV6000、IV3000、IV2000S、IV2000 等系列自动乌式粘度仪，是目前全世界系列最丰富的乌式粘度仪服务商，满足了绝大部分高分子聚合物材料的测试方法及应用的差异化。

Zhuoxiang science and technology team has always taken market application as the enterprise's servicepurpose, developed AVM, IV8000X, IV6000, IV3000, IV2000S, IV2000 series of automatic Ukrainianviscosimeter, is the world's most abundant series of Ukrainian viscosimeter service providers. Mostof the polymer materials to meet the test methods and application of the difference.

卓祥科技技术服务团队建立“量身定制”式的服务意识，提供合适的产品给不同应用客户的同时，还会手把手的提供粘度测量的整体实验分析方法建立及实际操作。

Zhuoxiang technology technical service team to establish "tailored" type of service awareness, toprovide appropriate products and different applications of customers, but also hand in hand toprovide viscosity measurement of the overall experimental analysis method to establish and practicaloperation.

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上海睿士科技有限公司

上海睿士科技有限公司于 2014 年 08 月 22 日成立。法定代表人张线民，公司经营范围包括：从事生物科技、信息科技、电子科技、计算机科技、智能化科技领域内的技术开发、技术咨询、技术服务、技术转让，一类医疗器械、实验室设备的销售等。

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束蕴仪器（上海）有限公司自成立以来，凭借与世界知名分析仪器厂商的战略合作，迅速成长为科学仪器行业受尊敬的领导供应商。（Since its establishment, beam Yun instrument (Shanghai) Co., Ltd. has rapidly grown into a respected leading supplier in the scientific instrument industry by virtue of its strategic cooperation with world-famous analytical instrument manufacturers. ）

我们拥有一支积极乐观，正直诚信的年轻团队，我们热忱的信仰科学，相信科学技术能为我们的客户带来高品质的生活，为社会的进步起到积极的促进作用。（ We have a positive, optimistic, honest and honest young team. We warmly believe in science and technology. We believe that science and technology can bring high-quality life to our customers and play a positive role in promoting the progress of society.）

束蕴仪器为各类客户提供优质的实验室和工业检测仪器及过程控制设备，专业的应用支持及完善的售后服务，在中国大陆的诸多领域拥有大量用户，如高校、科研院所、航空航天，政府组织、检验机构、及工业企业。产品覆盖了医药、生物、材料、考古、电子、食品等各个行业。(Customer service equipment provides Chinese customers with high-quality laboratory and industrial testing instruments and process control equipment, professional application support and perfect after-sales service, and has a large number of users in Chinese mainland, such as universities, research institutes, aerospace, government organizations, inspection institutions and industrial enterprises. Products cover medicine, biology, materials, archaeology, electronics, food and other industries.)

我们的主营产品是显微CT和X射线衍射仪，相较于其他公司而言，我们有更专业的应用工程师和完整的实验室配套设施。(Our main products are micro CT and X-ray diffractometer. Compared with other companies, we have more professional application engineers and complete laboratory supporting facilities.)

公司的宗旨：为客户量身打造最适合的综合解决方案，全方位的技术支持和现场服务，优质高效的客户培训，快速及时的售后服务。(The company's purpose: to create the most suitable comprehensive solutions for customers, all-round technical support and on-site service, high-quality and efficient customer training and fast and timely after-sales service.)

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