



科技阻燃，绿动未来  
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# 第8届国际阻燃材料与技术研讨会

8<sup>th</sup> International Symposium on Flame-Retardant Materials & Technologies

ISFRMT 2024, November 8~10, 2024. Xiamen China

## 程 序 册

### CONFERENCE MANUAL

#### ORGANIZED BY

XIAMEN UNIVERSITY  
SICHUAN UNIVERSITY

#### CO-ORGANIZED BY

FIRE TESTING TECHNOLOGY (FTT)  
FUJIAN PROVINCIAL KEY LABORATORY OF FIRE RETARDANT MATERIALS  
XIAMEN KEY LABORATORY OF FIRE RETARDANT MATERIALS  
BRANCH OF COATING MATERIALS, FUJIAN COLLABORATIVE INNOVATION INSTITUTE

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FIRE





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## 主办单位

厦门大学  
四川大学

## 协办单位

FIRE TESTING TECHNOLOGY (FTT)

福建省防火阻燃材料重点实验室  
厦门市防火阻燃材料重点实验室  
福建省协同创新院涂层材料分院

## 支持单位

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万新（厦门）新材料有限公司  
厦门康诺思科技有限公司  
《FIRE》期刊



ISFRMT2024 国际学术顾问委员会  
(按姓氏英文字母排序)

International Scientific Committee (In alphabetical order of last name)

姓 名 Name	单 位 Affiliation
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Debes BHATTACHARYYA	University of Auckland, New Zealand
Giovanni CAMINO	Politecnico di Torino, Italy
Federico CAROSIO	Politecnico di Torino, Italy
Lizong DAI	Xiamen University, China
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Bin FEI	Hong Kong Polytechnic University, China
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Jean Francois GERARD	INSA Lyon, France
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Laia HAURIE	Polytechnic University of Catalonia, Spain
Yuan HU	University of Science and Technology of China, China
T. Richard HULL	University of Central Lancashire, UK
Baljinder KANDOLA	University of Bolton, UK
Jinhwan KIM	Sungkyunkwan University, South Korea
Oleg KOROBEINICHEV	Voevodsky Institute of Chemical Kinetics and Combustion, RAS, Russia
Fouad LAOUTID	University of Mons, Belgium
Sébastien LIVI	INSA Lyon, France

姓 名 Name	单 位 Affiliation
S. M. LLOMAKIN	Emanuel Institute of Biochemical Physics, RAS, Russia
José-Marie LOPEZ-CUESTA	Ecole des Mines d'Alès, France
Alexander B. MORGAN	University of Dayton Research Institute, USA
Adrian MOURITZ	RMIT University, Australia
Takafumi NNOGUCHI	University of Tokyo, Japan
Masayuki OKOSHI	Society of Flame Retardant Materials, Japan
Rudolf PFAENDNER	Fraunhofer LBF, Germany
Miriam RAFAILOVICH	Stony Brook University (SUNY), USA
Berhard SCHARTEL	BAM, Berlin, Germany
Andrey G. SHMAKOV	Voevodsky Institute of Chemical Kinetics and Combustion, Russia
Kelvin K. SHEN	FR Consultant, USA
J. Chris SLOOTWEG	University of Amsterdam, Netherlands
Stanislav STOLIAROV	University of Maryland, USA
Andrea TOLDY	Budapest University of Technology and Economics, Hungary
Jürgen TROITZSCH	Fire and Environment Protection Service, Germany
Deyi WANG	IMDEA Materials Institute, Spain
Yuzhong WANG	Sichuan University, China
Hao WANG	University of Southern Queensland, Australia
Carl Eric WILEN	Åbo Akademi University, Finland
Charles A. WILKIE	Marquette University, USA
Charles YANG	University of Georgia, USA
Rongjie YANG	Beijing Institute of Technology, China
Guan Heng YEOH	University of New South Wales, Australia
Mauro ZAMMARANO	NIST, Gaithersburg, USA

ISFRMT2024 地方组委会成员

(按姓氏的英文字母排序)

Local Organizing Committee (In alphabetical order of last name)

姓名 Name	单位 Affiliation	姓名 Name	单位 Affiliation
曹堃 Kun CAO	浙江大学 Zhejiang University	戴李宗 Lizong DAI	厦门大学 Xiamen University
方征平 Zhengping FANG	浙大宁波理工学院 NingboTech University	胡源 Yuan HU	中国科学技术大学 University of Science and Technology of China
江平开 Pingkai JIANG	上海交通大学 Shanghai Jiao Tong University	李斌 Bin LI	东北林业大学 Northeast Forestry University
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王正洲 Zhengzhou WANG	同济大学 Tongji University	夏延致 Yanzhi XIA	青岛大学 Qingdao University
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周政懋 Zhengmao ZHOU	中国兵工学会阻燃专业委员会 Beijing Institute of Technology	朱锦 Jin ZHU	中科院宁波工业技术研究院 Ningbo Institute of industrial technology, CAS
朱平 Ping ZHU	青岛大学 Qingdao University		

ISFRMT2024 青年学者委员会

(按姓氏的英文字母排序)

Youth Committee (In alphabetical order of last name)

姓名 Name	单位 Affiliation	姓名 Name	单位 Affiliation
陈力 Li CHEN	四川大学 Sichuan University	胡伟兆 Weizhao HU	中国科学技术大学 University of Science and Technology of China
李娟 Juan LI	浙大宁波理工学院 NingboTech University	刘杰 Jie LIU	中科院长春应化所 Changchun Institute of Applied Chemistry, CAS
刘云 Yun LIU	青岛大学 Qingdao University	潘也唐 Yetang PAN	北京理工大学 Beijing Institute of Technology
邱勇 Yong QIU	北京工商大学 Beijing Technology and Business University	Pingan SONG	南昆士兰大学 University of Southern Queensland, Australia
施永乾 Yongqian SHI	福州大学 Fuzhou University	孙军 Jun SUN	北京化工大学 Beijing University of Chemical Technology
王鑫 Xin WANG	中国科学技术大学 University of Science and Technology of China	许苗军 Miaojun XU	东北林业大学 Northeast Forestry University
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张文超 Wenchao ZHANG	北京理工大学 Beijing Institute of Technology	赵海波 Hai-Bo ZHAO	四川大学 Sichuan University

**SYMPOSIUM SCHEDULE**

**研讨会日程表**

<b>Date 日期</b>	<b>Morning 早上</b>	<b>Afternoon 下午</b>	<b>Evening 晚上</b>
8 <sup>th</sup> November 11月8日	On-Site Registration 现场注册 <b>10:00-22:00</b>		组织委员会会议 <b>20:00-22:00</b>
9 <sup>th</sup> November 11月9日	Opening Ceremony 开幕式 <b>08:30-09:00</b> Plenary Lectures 大会邀请报告 <b>09:00-10:15</b>	Keynote Lectures 主题报告 Oral Lectures 口头报告 <b>13:30-15:30</b>	Banquet 晚宴 <b>19:00</b>
	Photos 合影留念 <b>10:15-10:30</b>		
	Coffee break 茶歇 <b>10:30-10:40</b>	Coffee break 茶歇 <b>15:30-15:45</b>	
	Plenary Lectures 大会邀请报告 <b>10:40-12:00</b>	Keynote Lectures 主题报告 Oral Lectures 口头报告 <b>15:45-18:05</b>	
	Lunch break 午餐 <b>12:00-13:30</b>	墙报展讲 <b>17:00-19:00</b>	
10 <sup>th</sup> November 11月10日	Keynote Lectures 主题报告 Oral Lectures 口头报告 <b>08:30-10:30</b>	1 min Flash Talk 一分钟快闪报告 <b>13:45-15:30</b>	会议结束
		Coffee break 茶歇 <b>15:30-15:45</b>	
	Coffee break 茶歇 <b>10:30-10:45</b>	Plenary Lectures 大会邀请报告 <b>15:45-17:00</b>	
	Keynote Lectures 主题报告 Oral Lectures 口头报告 <b>10:45-12:10</b>	Best Poster Awards 优秀墙报颁奖 <b>17:00-17:15</b>	
	Lunch break 午餐 <b>12:10-13:45</b>	Closing Ceremony 闭幕式 <b>17:15-17:45</b>	

ISFRMT2024 (9<sup>th</sup> Nov. – 10<sup>th</sup> Nov.)

会议报告说明

Explanations

投影	PowerPoint in English PowerPoint (英文) 电子屏/投影仪
大会邀请报告 Plenary Lectures, PL	25 分钟 (23分钟报告, 2分钟提问) 25 minutes (23 min talk, 2 min question)
主题报告 Keynote Lectures, KN	20 分钟 (18分钟报告, 2分钟提问) 20 minutes (18 min talk, 2 min question)
口头报告 Oral Lectures, OL	12 分钟 (10分钟报告, 2分钟提问) 12 minutes (10 min talk, 2 min question)
学生报告 Student Talk, ST	5 分钟 (5分钟报告) 5 minutes (5 min talk)
墙报报告 1 min Flash Talk for Poster, PO	1 分钟 1 minute

注意 (Notes) :

(1) 为使报告顺利进行, 请报告人在注册当天把报告PPT交各会场指定服务人员拷入会议专用的笔记本电脑。

To ensure the progress of the conference, please submit the PPT to the meeting assistants in advance and copy presentation files into the computer connected with the multimedia projector.

(2) 本安排将根据实际情况适时调整, 最后以当天会议发布为准。

This schedule will be adjusted according to the actual situation, and the final arrangement will be conducted based on the notice released by the organizing committee on the same day.

(3) 墙报布展时间: 11月9日上午10:30-12:00; 地点: 温德姆厅外廊厅。

墙报集中展讲时间: 11月9日下午17:00-19:00; 地点: 温德姆厅外廊厅。

墙报快闪报告时间: 11月10日下午13:45-15:30; 地点: 禹州主会厅。

Poster set up time: 9<sup>th</sup>/Nov., 10:30-12:00. Location: Outer Gallery of Wyndham Hall.

Poster exhibition time: 9<sup>th</sup>/Nov., 17:00-19:00 PM. Location: Outer Gallery of Wyndham Hall.

Poster Flash Talk time: 10<sup>th</sup>/Nov., 13:45-15:00 PM. Location: Yuzhou Main Hall.

(4) 组委会对所有墙报重新编号。每个墙报一个展板, 墙报尺寸为80 cm (宽) × 120 cm (高)。

All posters will be numbered by the organizing committee. Each poster has a display board, with a poster size of 80 cm (width) x 120 cm (height).

ISFRMT2024		Friday / 8, November
Time	Agenda	Location
10:00-22:00	注册 Registration	禹州温德姆酒店五缘湾店一楼大厅 The 1 <sup>st</sup> floor lobby Wyndham Grand Plaza Royale Yuzhou Wuyuanwan
20:00-22:00	组织委员会会议 Committee Meeting	五缘湾 2 厅 Wuyuanwan Hall 2

ISFRMT2024		Saturday / 9, November	
Time: 8:30-11:55		地点: 主会场 (2F 禹洲厅) Location: Main venue (2F Yuzhou Main Hall)	
开幕式+致辞 Opening ceremony + Opening speech			
主持人: 戴李宗 Host: Prof. Lizong DAI			
8:30-9:00	大会主席四川大学王玉忠院士讲话 Academician Yu-Zhong WANG, Conference Chairman, Sichuan University 厦门大学校领导致辞 Vice President of Xiamen University		
大会邀请报告 Plenary Lectures			
主持人: 王玉忠 院士 / Sabyasachi GAAN Host: Prof Yu-Zhong WANG / Dr. Sabyasachi GAAN			
Time	Report No.	Plenary Lectures 大会邀请报告	Name/Affiliation 姓名/单位
9:00-9:25	PL1	New trends in fire retardancy: Materials response in O <sub>2</sub> -rich environment and in hydrogen flame	Serge BOURBIGOT Centrale Lille Institute, France

第八届国际阻燃材料与技术研讨会 (ISFRMT2024) · 厦门

9:25-9:50	PL2	Two sides of the coin: Flame retardant or flame assistant	De-Yi WANG IMDEA Materials Institute, Spain
9:50-10:15	PL3	Flame retardancy, low smoke emission and no dripping: status, future trends and technical comparison between PVC and halogen free compounds for new generation of low-hazard fire-safe Cables.	Camillo CARDELLI IPOOL, Italy
10:15-10:30	合影留念	Photos	
10:30-10:40	茶歇	Coffee break	
主持人: 戴李宗 / Serge BOURBIGOT Host: Prof Lizong DAI / Prof. Serge BOURBIGOT			
10:40-11:05	PL4	In-situ formed silica/thermoset composites: Synthesis, properties and application	Sabyasachi GAAN Empa Swiss Federal Laboratories for Materials Science and Technology, Switzerland
11:05-11:30	PL5	Bioinspired fire-retardant coatings	Pingan SONG University of Southern Queensland Australia
11:30-11:55	PL6	Flame-retardant modifications of functional transparent woods	Bin FEI Hong Kong Polytechnic University
12:00-13:30	午餐	Lunch break	

ISFRMT2024 分会场 1 (Session 1)			Saturday / 9, November
Time: 13:30-18:05      主题: 新型阻燃剂设计、生物基/绿色阻燃、阻燃机理与新概念 Session: New flame-retardants; Bio-based/green flame-retardants; Flame-retardant mechanism and new concepts 地点: 分会场 1 (2F 禹洲 A 厅)      Location: Branch venue 1 (2F Yuzhou A Hall)			
主持人: 胡源/ Camillo CARDELLI Host: Prof. Yuan HU / Dr. Camillo CARDELLI			
13:30-13:50	KN1	Intumescent polybutylene succinate	Gaëlle FONTAINE Centrale LILLE, France
13:50-14:10	KN2	Fire/thermal-safety strategies for lithium batteries	吴刚 四川大学 Gang WU Sichuan University
14:10-14:30	KN3	Multi functional intrinsic flame retardant bio-based epoxy resin	翁志焕 大连理工大学 Zhihuan WENG Dalian University of Technology
主持人: 叶南飏 / 张水洞 Host: Dr. Nanbiao YE / Prof. Shuidong ZHANG			
14:30-14:42	OL1	Flame retardant modification of halloysite nanotube and its nanocomposites	马海云 河北大学 Haiyun MA Hebei University
14:42-14:54	OL2	Super-efficient flame retardancy and mechanism of phosphonic acid-based nitrogen-containing hydrogen-bonded organic framework for epoxy composite	李红周 福建师范大学 Hongzhou LI Fujian Normal University
14:54-15:06	OL3	A graphene@MOFs hybrid based on mechanical force and with the help of a phosphate-containing ligand was obtained for the high efficiency flame retardant of EP	屈红强 河北大学 Hongqiang QU Hebei University
15:06-15:18	OL4	Construction and performance control of hierarchical composite materials with both electromagnetic shielding and fire safety	施永乾 福州大学 Yongqian SHI Fuzhou University
15:18-15:30	OL5	Flame retardant lignin based polymer electrolytes	呼微 东北师范大学 Wei HU Northeast Normal University

15:30-15:45 茶歇 Coffee break			
主持人: 唐涛 / 徐建中 Host: Prof. Tao TANG / Prof. Jianzhong XU			
15:45-16:05	KN4	Ultra-low smoke-release epoxy resin with efficient radical quenching fabricated via carbohydrates	张水洞 华南理工大学 Shuidong ZHANG South China University of Technology
16:05-16:25	KN5	Facile construction of organic-inorganic hybrid coatings for enhancing flame retardancy of fabrics	徐英俊 青岛大学 Yingjun XU Qingdao University
16:25-16:45	KN6	Ionic liquid metal-oxo clusters as fire retardants of thermoset polymers	Jean-Francois GERARD Université de Lyon, INSA Lyon, France
主持人: 马海云 / 简荣坤 Host: Prof. Haiyun MA / Prof. Rongkun JIAN			
16:45-16:57	OL6	Caramelization-inspired bio-based waterborne fire-resistant coating for various substrates	晏泓 太原理工大学 Hong YAN Taiyuan University of Technology
16:57-17:09	OL7	Preparation and flame retardant properties of polybenzoxazine composites	赵春霞 西南石油大学 Chunxia ZHAO SouthWest Petroleum University
17:09-17:21	OL8	Bio-based flame-retardant systems toward multifunctional polymeric materials	简荣坤 福建师范大学 Rongkun JIAN Fujian Normal University
17:21-17:33	OL9	Multi-functional finishing of cellulose-based fabrics with bio-based flame retardants	刘云 青岛大学 Yun LIU Qingdao University
17:33-17:53	KN7	Changes in flame retardant materials and chemical regulations	Masayuki OKOSHI The Society of Flame-retardant Materials, Japan
17:00-19:00	墙报展讲		
19:00 晚宴 Banquet			



14:54-15:06	OL11	Design and performance study of intrinsic flame retardant vinyl resin	张文超 北京理工大学 Wenchao ZHANG Beijing Institute of Technology
15:06-15:18	OL12	A novel strategy for simultaneously enhancing the flame retardancy, smoke suppression and water resistance of intumescent flame retardant polyolefin	许苗军 东北林业大学 Miaojun XU Northeast Forestry University
15:18-15:30	OL13	Ceramizable organic-inorganic coating and its flame retardant and smoke suppressing effects on PET fabric	丁放 武汉纺织大学 Fang DING Wuhan Textile University
15:30-15:45	茶歇	Coffee break	
主持人: 许苗军 / Gaëlle FONTAINE Host: Prof. Miaojun XU / Prof. Gaëlle FONTAINE			
15:45-16:05	KN11	Genesys and development of a new standard based on cone calorimetry	Mauro ZAMMARANO NIST, National Institute of Standards and Technology, USA
16:05-16:25	KN12	Sustainable fire-safe upholstered furniture	Richard HULL University of Central Lancashire, UK
16:25-16:45	KN13	Fire retardancy in highly filled plastics	Alberto FRACHE Politecnico di Torino, Italy
主持人: 陈力 / 谢启源 Host: Prof. Li CHEN / Prof. Qiyuan XIE			
16:45-17:05	KN14	Fire performance durability of flame retardants in polymers and coatings	Jürgen TROITZSCH Fire and Environment Protection Service FEPS, Germany
17:05-17:25	KN15	Structural variations in fire retarded flax-furan biocomposites induced during furfuryl alcohol polymerization	Baljinder KANDOLA University of Bolton, UK
17:25-17:45	KN16	Surface assembly of polyelectrolyte complexes for high performing flame retardant fabrics and foams	Federico CAROSIO Politecnico di Torino, Italy
17:00-19:00	墙报展讲		
19:00	晚宴	Banquet	

ISFRMT2024 分会场 3 (Session3)			Saturday / 9, November
Time: 13:30-18:05 Session: Youth Forum 地点: 分会场 3 (2F 温德姆厅)    Location: Branch venue 3 (2F Wendemu Hall)			主题: 青年学者论坛
主持人: 孙军 / 汪碧波 Host: Prof. Jun SUN / Prof. Bibo WANG			
13:30-13:42	YO1	Alpha-cyclodextrin-based polyrotaxane combining phytate lithium salt as a novel bio-based flame-retardant solid-polymer-electrolyte to lithium-ion battery	陈琪 IMDEA Materials Institute, Spain Qi CHEN IMDEA Materials Institute, Spain
13:42-13:54	YO2	A green and facile strategy to enhance thermal stability and flame retardancy of unidirectional flax fabric based on fully bio-based system	魏志彪 同济大学 Zhibiao WEI Tongji University
13:54-14:06	YO3	Reactive phytate salts for sustainable and durable flame-retardant modification of protein fibers	程献伟 苏州大学 Xianwei CHENG Soochow University
14:06-14:18	YO4	Design and mechanism of bio-based fire safety composites	刘鲁斌 东北林业大学 Lubin LIU Northeast Forestry University
14:18-14:30	YO5	Design and performance investigation of multifunctional cotton fabrics	饶文辉 桂林理工大学 Wenhui RAO Guilin University of Technology
主持人: 饶文辉 / 刘鲁斌 Host: Prof. Wenhui RAO / Prof. Lubin LIU			
14:30-14:42	YO6	New wine in old bottle: Restriction of Ce-MOF growth within ZSM zeolite as flame retardant for TPU	潘也唐 北京理工大学 Yetang PAN Beijing Institute of Technology

14:42-14:54	YO7	Design and synthesis of high-performance flame-retardant aliphatic polyamides based on synergistic modulation of chemical and topological structures	张琴 四川大学 Qin ZHANG Sichuan University
14:54-15:06	YO8	Application and mechanism study of biobased flame retardants in PLA	朱宗民 武汉纺织大学 Zongmin ZHU Wuhan Textile University
15:06-15:18	YO9	Simultaneously flame-retarding and toughening of epoxy resin nanocomposites based on two-dimensional polyhedral oligomeric silsesquioxane/polyoxometalate supramolecular nanocrystals	叶新明 中北大学 Xinming YE, North University of China
15:18-15:30	YO10	Flame retardancy, low surface energy, and multifunctionalization of coatings	王芳 四川大学 Fang WANG Sichuan University
15:30-15:45	茶歇	Coffee break	
主持人: 徐英俊 / 刘博文 Host: Prof. Yingjun XU / Prof. Bowen LIU			
15:45-15:57	YO11	High-performance flame retardant cellulosic materials	王冬 江南大学 Dong WANG Jiangnan University
15:57-16:09	YO12	Metal-organic framework: The role of porous structure and metal species towards catalytic carbonization upon combustion towards fire retardant polymers	张婧 北京服装学院 Jing ZHANG Beijing Institute of Fashion Technology
16:09-16:21	YO13	Molecule design of fire-safe and high-performance solid-state electrolyte for li-ion battery	李志 重庆交通大学 Zhi LI Chongqing Jiaotong University
16:21-16:33	YO14	Design and preparation of novel phosphonamide flame retardants and their flame retardant performance in thermoplastic polyurethane elastomers	陈雅君 北京工商大学 Yajun CHEN Beijing Technology and Business University
16:33-16:45	YO15	Scientific discovery framework accelerating flame-retardant materials design	付腾 四川大学 Teng FU Sichuan University

主持人: 付腾 / 陈雅君 Host: Prof. Teng FU / Prof. Yajun CHEN			
16:45-16:57	YO16	Microencapsulated flame retardants for improving fire safety and aging resistance of polyolefin materials	汪碧波 中国科学技术大学 Bibo WANG University of Science and Technology of China
16:57-17:09	YO17	Flame-induced performance enhancement of MXene-based nanocomposite sponge for infrared stealth and strain sensing	陈文华 华侨大学 Wenhua CHEN Huaqiao University
17:09-17:21	YO18	High-performance flame-retardant epoxy resin and its aramid fiber reinforced composite	杨云仙 北京理工大学 Yunxian YANG Beijing Institute of Technology
17:21-17:33	YO19	A highly fire-safe wood hybrid based on delignification and multi-component co-impregnation strategies	肖飞 武汉理工大学 Fei XIAO Wuhan University of Technology
17:33-17:45	YO20	Design and flame retardant mechanism of phosphorus-containing flame retardant polymer solid electrolyte	韩龙飞 山东科技大学 Longfei HAN Shandong University of Science and Technology
17:00-19:00	墙报展讲		
19:00	晚宴 Banquet		



第八届国际阻燃材料与技术研讨会 (ISFRMT2024) · 厦门

10:06-10:18	OL17	High-energy ball milling-induced facile preparation and controllable surface oxidation of black phosphorus for improving fire safety of epoxy resin via synergistic effect	冯夏明 重庆大学 Xiaming FENG Chongqing University
10:18-10:30	OL18	Green chemistry approaches to flame retardancy in epoxy nanocomposites	Ehsan Naderi KALALI 西南交通大学 Southwest Jiaotong University
10:30-10:45	茶歇	Coffee break	
主持人: 张胜 / 王旭 Host: Prof. Sheng ZHANG / Prof. Xu WANG			
10:45-11:05	KN20	Environmentally benign forest fire prevention based on the full life cycle considerations	曹堃 浙江大学 Kun CAO Zhejiang University
11:05-11:25	KN21	Aggregation style and effect of flame retardant groups in polymers	钱立军 北京工商大学 Lijun QIAN Beijing Technology and Business University
11:25-11:45	KN22	Application study of polysilsesquioxane (POSS) in flame retarded ethylene-vinyl acetate copolymer (EVA) composites	李定华 北京理工大学 Dinghua LI Beijing Institute of Technology
主持人: 陈明军 / 张文超 Host: Prof. Zhiwei LI / Prof. Wenchao ZHANG			
11:45-11:57	OL19	Construction and application of flame-retarded biobased resins and composites	刘涛 华南农业大学 Tao LIU South China Agricultural University
11:57-12:09	OL20	Research on phosphorus/nitrogen flame retardant based on hyperbranched polyamide amine	邓聪 四川大学 Cong DENG Sichuan University
12:10-13:45	午餐	Lunch break	

ISFRMT2024 分会场 5 (Session5)			Sunday / 10, November
<b>Time: 8:30-12:10</b> 主题: 新能源领域火安全、阻燃防火复合材料与可持续回收利用 <b>Session:</b> <b>Fire-safety in new energy; Flame retardant composites and sustainable development and recycling</b> <b>地点: 分会场 5 (2F 禹洲 C 厅)</b> <b>Location: Branch venue 1 (2F Yuzhou C Hall)</b>			
主持人: 翁志焕 / 费宾 Host: Prof. Zhihuan WENG / Prof. Bin FEI			
8:30-8:50	KN23	Roles of multi-hierarchical char in flame retardancy for thermal conductive epoxy composites	李娟 浙江大学宁波理工学院 Juan LI Ningbo Tech University
8:50-9:10	KN24	Bio-based, anti-flammable and recyclable epoxy thermosets and fiber-reinforced composites	王鑫 中国科学技术大学 Xin WANG University of Science and Technology of China
9:10-9:30	KN25	Strategies on improving flame retardant and anti-aging properties of polypropylene	谷晓昱 北京化工大学 Xiaoyu GU Beijing University of Chemical Technology
主持人: 谷晓昱 / 李娟 Host: Prof. Xiaoyu GU / Prof. Juan LI			
9:30-9:42	OL21	Calcium terephthalate synergistic flame retardant EP/PPO composites	单雪影 常州大学 Xueying SHAN Changzhou University
9:42-9:54	OL22	Preparation and performance of dyeing, flame retardant and anti-dripping polyester products	任元林 天津工业大学 Yuanlin REN Tiangong University
9:54-10:06	OL23	Silicone-based porous nanocomposite materials with integrated mechanical flexibility, thermal insulation, and ablation resistance	汤龙程 杭州师范大学 Longcheng TANG Hangzhou Normal University

10:06-10:18	OL24	Durable and recyclable flame-retardant materials	赵海波 四川大学 Haibo ZHAO Sichuan University
10:18-10:30	OL25	A multifunctional cellulose paper with excellent flame retardancy, hydrophobicity and oil/water-separation performance	沈育才 南京工业大学 Yucan SHEN Nanjing Tech University
10:30-10:45	茶歇	Coffee break	
主持人: 王鑫 / 刘平 Host: Prof. Xin WANG / Prof. Ping LIU			
10:45-11:05	KN26	Study of properties and preparation of high performance thin-walled flame retardant polycarbonate materials	王旭 浙江工业大学 Xu WANG Zhejiang University of Technology
11:05-11:25	KN27	Design and preparation of inherently flame-retardant epoxy resin systems and their performance study	杨爽 武汉理工大学 Shuang YANG Wuhan University of Technology
11:25-11:45	KN28	Carbon dot-based multifunctional nano-platform for constructing flame retardant Vitrimer composite	曾碧榕 厦门大学 Birong ZENG Xiamen University
11:45-11:57	OL26	Modeling study on the combustion of typical non-charring/charring polymer materials	张峰 青岛科技大学 Feng ZHANG Qingdao University of Science and Technology
11:57-12:09	OL27	Phosphorus-containing Diels-Alder chemistry for repairable, remoldable, recyclable, fire safety epoxy resins and their carbon-fiber composites	陈力 四川大学 Li CHEN Sichuan University
12: 10-13:45	午餐	Lunch break	

ISFRMT2024 分会场 6 (Session6)			Sunday / 10, November
Time: 8:30-12:10 Session: Youth Forum 地点: 分会场 6 (2F 温德姆厅) Location: Branch venue 3 (2F Wendemu Hall)			主题: 青年学者论坛
主持人: 施永乾 / 潘也唐 Host: Prof. Yongqian SHI / Prof. Yetang PAN			
8:30-8:42	YO21	Fame retardation by alloying: Alloy thermoplastic flame retardant macromolecules with polymer matrix towards superior comprehensive applied properties	邱勇 北京工商大学 Yong QIU Beijing Technology and Business University
8:42-8:54	YO22	Ultrahigh heat/fire-resistant, mechanically robust, and closed-loop chemical recyclable polycarbonate enabled by facile bond dissociation energy modulation	肖翔心 四川大学 Xiangxin XIAO Sichuan University
8:54-9:06	YO23	Flame-retardant, robust and chemically recyclable polyamide	刘博文 四川大学 Bowen LIU Sichuan University
9:06-9:18	YO24	Hyperbranched structure facilitates the preparation of super toughened flame-retardant polylactic acid	杨荣 常州大学 Rong YANG Changzhou University
9:18-9:30	YO25	Simultaneously increase the efficiency of flame retardants and improve the properties of polymer materials by coating technology	孙军 北京化工大学 Jun SUN Beijing University of Chemical Technology
主持人: 邱勇 / 杨荣 Host: Prof. Yong QIU / Prof. Rong YANG			
9:30-9:42	YO26	High-performance and flame-retarding the unsaturated polyester resins	李映明 重庆交通大学 Yingming LI Chongqing Jiaotong University
9:42-9:54	YO27	The preparation of polyamide 11 composites with extremely long ignition time	金晓冬 北京工业大学 Xiaodong JIN Beijing University of Technology

9:54-10:06	YO28	Autonomous perceptive fiber materials for multiple stimulus responses in complex fire environments	于志财 武汉纺织大学 Zhicai YU Wuhan Textile University
10:06-10:18	YO29	Fire-resistant, multi-functional and recyclable polyethylene terephthalate	陈琳 四川大学 Lin CHEN Sichuan University
10:18-10:30	YO30	A controllable and fast carbonization strategy under air conditions and its application in electromagnetic interference (EMI) shielding	张艳 浙江理工大学 Yan ZHANG Zhejiang Sci-Tech University
10:30-10:45	茶歇	Coffee break	
主持人： 闻新 / 王芳 Host: Prof. Xin WEN / Prof. Fang WANG			
10:45-10:57	YO31	Interlayer distance-property relationship study on the excellent performance flame retardant of the Mg-Al layered double hydroxides intercalated with naphthalene disulfonate anion	张禹泽 中国科学院青海盐湖研究所 Yuze ZHANG Qinghai institute of Salt Lakes, Chinese Academy of Sciences
10:57-11:09	YO32	Eco-friendly flame retardant comprising chitosan-based effectively enhances the flame retardancy of matrix by a simple and easy process	唐武飞 湖南科技学院 Wufei TANG Hunan University of Science and Engineering
11:09-11:21	YO33	Biobased flame retardant from traditional Chinese plants	刘丽娜 浙江农业大学 Lina LIU Zhejiang A&F University
11:21-11:33	YO34	Microcage flame retardants with complete recyclability and durability via reversible interfacial locking engineering	曾富容 四川大学 Furong ZENG Sichuan University

主持人: 陈琳 / 唐武飞 Host: Prof. Lin CHEN / Prof. Wufei TANG			
11:33-11:45	YO35	Synthesis of inorganic-organic hybrid flame retardants onto Mg(OH) <sub>2</sub> and their synergistic enhancement mechanism in biodegradable polymer composites	闻新 青岛科技大学 Xin WEN Qingdao University of Science and Technology
11:45-12:05	KN29	Ionic liquids as a versatile platform for the design of a multifunctional epoxy networks 2.0 generation	Sébastien LIVI Université de Lyon, France
12:05-12:10	ST1	Effects of ATH contents on upward burning mechanism of a vertical flame-retardant cable	方谦 中国科技大学 Qian FANG University of Science and Technology of China
12:10-13:45	午餐	Lunch break	

<b>ISFRMT2024</b> <b>November</b> <b>Time: 13:45-17:45 地点: 主会场 (2F 禹洲厅) Location: Main venue (2F Yuzhou Main Hall)</b>		<b>Sunday / 10,</b>	
<b>大会邀请报告</b> <b>Plenary Lectures</b>			
主持人: 袁丛辉 Host: Prof. Conghui YUAN			
13:45-15:30	墙报1分钟快闪 Flash Talk for Poster		
15:30-15:45		茶歇      Coffee break	
主持人: Pingan SONG / De-Yi WANG Host: Prof. Pingan SONG / Prof. De-Yi WANG			
15:45-16:10	PL7	Flame retardances of polylactic acid with ammonium polyphosphate	杨荣杰 北京理工大学 Rongjie YANG Beijing Institute of Technology
16:10-16:35	PL8	Solutions for durable flame retardancy in fabrics	张胜 北京化工大学 Sheng ZHANG Beijing University of Chemical Technology
16:35-17:00	PL9	Study on the fire safety improvement of lithium battery with phosphorus-containing compounds	胡源 中国科学技术大学 Yuan HU University of Science and Technology of China
主持人: 方征平 Host: Prof. Zhengping FANG			
17:00-17:15	优秀墙报颁奖 Best Poster Awards		
主持人: 戴李宗 Host: Prof. Lizong DAI			
17:15-17:45	闭幕式+致辞 Closing ceremony + Opening speech (王玉忠院士总结、会务交接等)		

海报列表 Poster List		汇报人 Reporter
P-1	Synergistic effect of layered double hydroxide-graphene on flame retardancy and smoke suppression of bio-based casein nanocomposite	安文 Wen AN
P-2	Synthesis of a novel flame retardant containing nitrogen/phosphorus and its application in epoxy resin	班大明 Daming BAN
P-3	Restiction of CE-MOF growth within zsm zeolite as flame retardant for thermoplastic polyurethane	毕雪 Xue BI
P-4	Cyclic Phosphonates: effective flame-retardant solutions for high-performance polyurethane foams	卜发洋 Fayang BU
P-5	Non-covalent bonding induced superior fire resistance of functionalized graphene oxide and carbon nanotubes paper for Joule heating and ultra-durable fire alarming	蔡翱 Ao CAI
P-6	Advancing flame retardancy, transparency, and toughness of epoxy resins through a compound containing phosphorus-rich DOPO derivative	曾昆 Kun ZENG
P-7	Effect of cage and ladder configuration of polyphenyl silsesquioxane on mechanical performance and flame retardancy of ethylene-vinyl acetate composites	程博 Bo CHENG
P-8	Synthesis of novel organophosphorus-nitrogen flame retardants and their synergistic flame retardation with silica against polyurea	丛孟辰 Mengchen CONG
P-9	Preparation of polyurea elastomers with flame retardant, insulating and thermally conductive properties	方今 Jin FANG
P-10	Self-assembled superstructure materials and their application exploration in flame-retardant and thermally conductive epoxy resins	高守祥 Shouxiang GAO
P-11	Outstanding flame retardancy based on intramolecular synergistic effect of P/Si containing compound in thermoplastic vulcanizate composites	宫芳芳 Fangfang GONG
P-12	A transparent, anti-blue-light, and high strength nylon/nickel phosphate oligomer nanocomposite formed via intermolecular hydrogen bond crosslinking	郭先鑫 Xianxin GUO
P-13	New strategies for new energy vehicle battery safety: design and research of a flame-retardant hydrogel system integrating fire sensing, warning and self-blowing-out	韩宇航 Yuhang HAN
P-14	Multiple free-radical-trapping and hydrogen-bonding enhancements to achieve highly effective flame retardancy and aging resistance of polyurethane foams	何磊 Lei HE

海报列表 Poster List		汇报人 Reporter
P-15	A fast and efficient strategy for obtaining cellulose paper with outstanding flame-retardant, antibacterial and antifungal properties	何双梅 Shuangmei HE
P-16	DOPO-derived bio-based flame-retardant epoxy resin	贺帅 Shuai HE
P-17	Multiple cross-linked networks of chitosan-based composite aerogel with flame retardancy and radiative cooling	洪静 Jing HONG
P-18	Cleaner production of core-shell Fe <sub>3</sub> O <sub>4</sub> for enhancing the fire safety of polyurea	侯迎 Ying HOU
P-19	Phase domain regulation for enhancing the mechanical properties and flame retardation of natural rubber composites	胡桂林 Guilin HU
P-20	Synthesis of co-substituted polyphosphonitrile and its properties in polylactic acid composites	黄腾 Teng HUANG
P-21	Polydopamine/naringenin multifunctional coatings use for flame retardant cotton fabrics	黄珍凤 Zhenfeng HUANG
P-22	Multifunctional fireproof electromagnetic shielding polyurethane films with thermal management performance	贾鹏飞 Pengfei JIA
P-23	An individualized core-shell architecture derived from covalent triazine frameworks: toward enhancing the flame retardancy, smoke release suppression, and toughness of bismaleimide resin	江鑫 Xin JIANG
P-24	Linear polydichlorophosphazene and Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanohybrids: Synthesis and application to epoxy resin to improve the fire safety and mechanical properties	蒋光勇 Guangyong JIANG
P-25	Preparation and properties of intrinsically flame-retardant polyamide 6	蒋敏 Min Jiang
P-26	Fully biodegradable, flame-retardant adhesive based on DDP-modified Poly(butylene adipate-co-terephthalate)	蒋琦 Qi JIANG
P-27	Caramelization-inspired bio-based waterborne fire-resistant coating for various substrates	康后婷 Houting KANG
P-28	Sustainable calcium gluconate-based coatings for lyocell fabrics with superior flame retardancy, antibacteria and wearing properties	康明明 Mingming KANG
P-29	Synthesis and characterization of inherently flame retardant polyamide 6 based on metal-coordination bonds	李鑫 Xin LI
P-30	A Si/P/Cu <sup>2+</sup> containing flame retardant for polypropylene based on surface segregation	李鑫超 Xinchao LI
P-31	Synthesis of cerium-based flame retardant containing phosphorus and its impact on the flammability of polylactic acid	曾军玮 Junwei ZENG

海报列表 Poster List		汇报人 Reporter
P-32	A novel macromolecular flame retardant based on sulfonyl diphenol monomer for simultaneous fire safety, transparency and high performance of thin-walled polycarbonate	刘宗胜 Zongsheng LIU
P-33	Mild sythesis of phosphorus intercalated NiFe-LDH hybrids onto carbon fabric for improving flame retardant of epoxy composites	娄元猛 Yuanmeng LOU
P-34	Fire-ratardant, smoke-suppressive and sustainable diatomite-based auxiliaries for highly fire-resistant epoxy resin	罗斌斌 Jianjian LUO
P-35	Ultrarobust, self-healing poly(urethane-urea) elastomer with superior tensile strength and intrinsic flame retardancy enabled by coordination cross-linking	罗宇欣 Yuxin LUO
P-36	Thermo-responsive self-ceramifiable robust aerogel with exceptional strengthening and thermal insulating performance at ultrahigh temperatures	马益恒 Yiheng MA
P-37	Highly flame retardancy and multifunctional nanocomposite sponge for efficient viscous crude oil spill disposal	潘灵锋 Lingfeng PAN
P-38	High-performance MXene-based cross-scale biomimetic coating for reliable, ultrafast, and ultralong fire warning applications	孙胜伟 Shengwei SUN
P-39	Flame retardant ceramicizable silicone rubber	祁睿 Rui QI
P-40	Miscanthus floridulus-based intumescent flame retardant by green self-assembly for fully biological EP composites with commendable flame retardancy, smoke suppression and mechanical properties	胡杭天 Hangtian HU
P-41	Fabrication of eco-friendly flame-retardant and UV resistant coating for flexible polyurethane foam	沈楠兰 Nanlan SHEN
P-42	Bio-inspired synthesis of ammonium polyphosphate/carbon black hybrids for improving the flame retardancy of poly(L-lactic acid)	史新新 Xinxin SHI
P-43	Novel flame retardants with phosphonate and borate towards heat and smoke suppression for epoxy resins	谭诗环 Shihuan TAN
P-44	The effect of layered double hydroxide on the ceramicization evolution of silicone foam at high temperatures	唐沛杰 Peijie TANG
P-45	Solvent-free flame-retardant epoxy coatings with environmental durability and corrosion resistance	王浩 Hao WANG
P-46	Design of hollow porous metal-organosilicon framework materials and study of flame retardant and smoke suppression mechanism	王秀 Xiu WANG

海报列表 Poster List		汇报人 Reporter
P-47	P/N/Si-rich and flexible coating imparting polypropylene excellent flame retardancy without compromising its inherent mechanical properties	王彦明 Yanming WANG
P-48	Hyperbranched flame retardant for highly efficient smoke suppression of flexible polyurethane foam	王焱 Yan WANG
P-49	Through the electronic effects enhance the mechanical properties and flame retardancy of epoxy resin	王怡 Yi WANG
P-50	Vinyl-groups-mediated wide-temperature fireproof dynamic/thermal cross-linking networks	王寅龙 Yinlong WANG
P-51	A novel flame-retardant copolycarbonate: low smoke release and low heat release	王紫霓 Zini WANG
P-52	Novel gradient intumescent flame retardant distribution for efficiently balanced flame retardancy and mechanical properties of PP	吴炳辰 Bingchen WU
P-53	Intramolecular synergistic carbonization of aryl schiff base/triazine piperazine charring agent endowing polypropylene with superior intumescent flame retardant performance	刘姝薇 Shuwei LIU
P-54	Rationally designed MOFs@APP flame retardants and their application research at polypropylene flame retardant coating	武俊瑛 Junying WU
P-55	Recycling PET to intrinsic flame-retardant polyester-based vitrimer via reactive extrusion	向先悦 Xianyue XIANG
P-56	Construction and properties of flame retardant cotton fabric reinforced bio-based epoxy resin composites	徐杰 Jie XU
P-57	Fire-insulating alginate aerogel with intelligent bionic armor for superior mechanical and fire warning properties	徐凯 Kai XU
P-58	Fabrication of novel and efficient arylphosphonate flame retardants for synchronously enhancement of fire	徐悦 Yue XU
P-59	Ambient pressure dried biomass aerogel towards mechanical strength and flame retardance	许成叙 Chengxu XU
P-60	Robustly tough, flame retardant and smoke suppressed thermoplastic polyurethane elastomer composites using interfacial molecular assembly	杨家宁 Jianing Yang
P-61	Intimate contacted self-assembly sandwich-like MMT/ZnMPA supramolecular nanocomposite produces mechanically strong and flame retardant wood plastic composites	杨若凡 Ruofan YANG
P-62	Innovative design and green synthesis of bio-based non-isocyanate polyurethanes: Efficient combination of cardanol and carbon dioxide with high fire safety and robust adhesion	杨文浩 Wenhao YANG

海报列表 Poster List		汇报人 Reporter
P-63	Sulfonated carbon black for flame-retardant polycarbonate with tunable smoke-suppressing and mechanical performance	叶小迪 Xiaodi YE
P-64	Development of fire-resistant PVA films with superior toughness, self-healing, and antibacterial properties via a phosphazene molecule	殷真真 Zhenzhen YIN
P-65	Janus-inspired alternating architecture CNF/MXene/ZnFe <sub>2</sub> O <sub>4</sub> @PANI composite films with outstanding electromagnetic interference shielding and Joule heating	印恋 Lian YIN
P-66	Desing of high fire-safe polycarbonate with multiobjective property targets based on pareto frontier optimization	余荣华 Ronghua YU
P-67	Enhancing cotton fabric fire safety with fully bio-based fflame retardant system: a layer-by-layer approach	杨序琪 Xuqi YANG
P-68	Phosphoceramic and intumescent flame retardants synergistic flame retardancy on waste ABS	张晋语 Jinyu ZHANG
P-69	High-strength flame-retardant and anti-dripping PET copolyester	张磊 Lei ZHANG
P-70	A study on flame-retardant sustainable epoxy resins based on imine chemistry	赵佳欣 Jiaxin ZHAO
P-71	Advancing flame retardancy, transparency, and toughness of epoxy resins through a compound containing phosphorus-rich DOPO derivative	郑书贤 Shuxian ZHENG
P-72	Organic-inorganic hybrid flame retardant nanorod for natural rubber	周伟辰 Weichen ZHOU
P-73	Cost-effectively encapsulated phosphorus into porous carbon black for improving the flame retardancy of PLA	朱俊霖 Junlin ZHU
P-74	Silica composite aerogels based on fly ash for flame retardancy and thermal insulation	卓华伟 Huawei Zhuo
P-75	Tunable construction of compressible and flame-retardant mxene aerogel for high EMI shielding effectiveness and functional applications	朱琰珺 YanJun ZHU
P-76	Cellulose aerogels modified by tea polyphenols with high efficient and durable flame retardancy	骆晓蕾 Xiaolei LUO
P-77	Flame-retardant crosslinkers for silicone rubber prepared from octavinyl polyhedral oligomeric silsesquioxanes	郑子建 Zijian ZHENG

海报列表 Poster List		汇报人 Reporter
P-78	MOF-based porous liquids towards a highly stressed and chemically resistant fire-safety polyurea elastomer	宋昆朋 Kunpeng SONG
P-79	Enhancing flame retardant wood's versatility and adjustable properties through multi-scale micro-coating strategy	贾宏煜 Hongyu JIA
P-80	Natural resin-derived urushiol-based phosphorylation derivative towards flame-retardant and mechanically strong epoxy resin	梁凯行 Kaixing LIANG
P-81	Ultra-high fire-safety and mechanically robust multifunctional epoxy resins constructed by biomass organic-inorganic hybrid interfacial reaction	陈锋 Feng CHEN
P-82	Synthesis of iron-coordinated phosphorus-containing triazole and its application in flame-retardant epoxy resins	黄诗洲 Shizhou HUANG
P-83	Nonconventional phosphorus-based tertiary amine curing agent enabling the high fire safety, outstanding tensile strength and high glass transition temperature of epoxy resin	陈雪琪 Xueqi CHEN
P-84	An ionic liquid modified ammonium polyphosphate catalyzed acid anhydride solidified epoxy vitrimer exhibiting thermal stability, reparability and shape memory function	马天龙 Tianlong MA
P-85	Poly-d-lactic acid (PDLA) and schiff base dual modifications of the cyclodextrin-based host-guest hierarchical fire retardants towards fire safety and UV-resistant poly-l-lactic acid (PLLA)	杨说 Shuo YANG
P-86	Hybridized smoke suppressant for wood-plastic composites	索婷婷 Tingting SUO
P-87	Study on the effect of mxene assembled with phytic acid-modified MOF on the properties of epoxy resin	公凯利 Kaili GONG
P-88	Advancing flame retardancy, transparency, and toughness of epoxy resins through a compound containing phosphorus-rich DOPO derivative	周学翔 Xuexiang ZHOU
P-89	Preparation and properties of siloxane copolymer polycarbonate foam	朱越 Yue ZHU
P-90	New sight into latent fire warning achieved by Ti3C2TX mxene/chitosan sensors via water vapor-triggered electric response	陈斌 Bin CHEN
P-91	Construction of phosphorus-containing polyimine vitrimer film by incorporating ionic liquid BMIM·PF <sub>6</sub> for enhanced mechanical, flame-retardant and reprocessable properties	赵青云 Qingyun ZHAO
P-92	Fabrication and characterization of biomass gel foams with enhanced foaming and film-forming properties for coal spontaneous combustion suppression	王靖文 Jingwen WANG

海报列表 Poster List		汇报人 Reporter
P-93	Phosphorus-doped carbon dots as an effective flame retardant for transparent PVA composite films with enhanced UV shielding property	高润英 Runying GAO
P-94	A DOPO-modified carbon dot as carboxylic acid-type curing agent for constructing epoxy vitrimer: flame retardancy and reprocessability	刘花 Hua LIU
P-95	Terpyridine based supramolecular coordination compounds bifunctional fillers enhanced epoxy coating with persistent corrosion protection and fire safety	胡顺保 Shunbao HU
P-96	o-Vanillin based MOFs as phosphorus-free flame retardant for modified epoxy resin	秦仁通 Rentong QIN
P-97	Ligand engineering modulated MXene@LDH heterojunction for boosting anti-corrosion, flame retardancy and anti-corrosion properties of epoxy	刘浩 Hao LIU
P-98		刘国庆 Guoqing LIU





# 参展信息

参展地点：厦门禹洲温德姆至尊豪廷大酒店二楼序厅

参展企业（排名不分前后）



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