



2017 International Conference on Advanced Fibers and Polymer Materials

October 8–10, 2017, Shanghai, China

Program

Organizer

State Key Laboratory for Modification of Chemical Fibers and Polymer Materials
Innovation Base of Advanced Fabrication Technology of Fiber Materials
Center for Advanced Low-Dimension Materials, Donghua University
College of Materials Science Engineering, Donghua University

Co-organizer

Natural Science Foundation of China
Fiber Society of China (In preparation)
Polymer Materials and Engineering Society of China
China Women's Association for Science & Technology
Shanghai Consulting & Academic Activities Center for Academicians of Chinese
Academy of Engineering
State Key Laboratory of Polyolefins and Catalysis

Media sponsor

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Presentation

- ✓ Keynote and Invited speakers in session A-I have 20 minutes, 15 minutes for presenting and 5 minutes for questions.
- ✓ Keynote speakers in session J have 20 minutes, 15 minutes for presenting and 5 minutes for questions. Invited speakers in session J have 15 minutes, 13 minutes for presenting and 2 minutes for questions.
- ✓ Contributed speakers have 15 minutes, 13 minutes for presenting and 2 minutes for questions.
- ✓ Keynote lecture: KL
- ✓ Invited lecture: IL
- ✓ Oral presentation: OL
- ✓ Poster presentation: P

- A. High-Performance Fibers and Composites
- B. Chemistry and Physics in Fibers and Textiles
- C. Nano-Technologies in Fibers and Polymers
- D. Smart Fibers, Textile and Wearable Intelligent Device
- E. Environmentally Friendly Fibers and Polymers
- F. Fibers and Polymers for Medical Applications
- G. Fibers and Polymers for Energy Applications
- H. Natural Fibers and Biomimetic Polymers
- I. Low Dimensional Materials
- J. Multi-functional and Multi-material Fibers
- K. 8th China-Japan-Korea Women Leaders Forum for Science & Technology in conjunction with the International Women Forum for Materials Science & Technology

ICAFPM 2017 Session Guide

Date	Event				
October 6, 2017	Songjiang New Century Grand Hotel Shanghai Registration				
October 7, 2017	Library & Information Center, No. 2 Conference Hall				
	K. 8th China-Japan-Korea Women Leaders Forum for Science & Technology in conjunction with the International Women Forum for Materials Science & Technology (09:00-17:30)				
October 8, 2017	Library & Information Center				
Morning	Registration				
Afternoon	No. 1 Conference Hall Opening ceremony (13:00-13:30) Plenary session (13:30-16:30) Poster Presentation (16:30-17:30)				
October 9, 2017	No. 1 Conference Hall	No.2 Conference Hall	No. 3 Conference Hall	No. 3 Conference Room	No. 7 Conference Room
Morning	D (8:00-11:55) Coffee Break	F (8:00-12:00) Coffee Break	B (8:00-12:05) Coffee Break	A (8:45-10:00) Coffee Break I (10:20-11:55)	C&E 8:00-11:45 Coffee Break
Afternoon	F & E (13:00-17:45) Poster	J (13:00-17:40) Poster	H (13:20-16:50) Poster	I (13:00-17:10) Poster	G (13:00-18:20) Poster
October 10, 2017	No. 2 Conference Hall				
Morning	Plenary session (8:30-11:20) Closing ceremony (11:20-11:50)				
Afternoon	No. 2 Conference Hall 111 Project Annual Meeting (14:00-16:00)				

Sunday, Oct. 8

Afternoon

Venue: No. 1 Conference Hall

<i>Opening Ceremony</i>				
13:00-13:30	Welcoming Remarks, Business, and Announcements			
<i>Plenary Lectures</i>				
<i>Session chair:</i>				
13:30-14:00	PL-01	How do we Create and Process Materials for Flexible, Transparent Electronic Circuitry?	Tobin J. MARKS	Northwestern University, USA
14:00-14:30	PL-02	Structural Health Monitoring and Performance of Polymer-based Composites at Space Environment	Alan Kin Tak LAU	Swinburne University of Technology, Australia
14:30-14:40	Photo Session			
14:40-15:00	Coffee Break			
<i>Session chair:</i>				
15:00-15:30	PL-03		Ray BAUGHMAN	The University of Texas at Dallas, USA
15:30-16:00	PL-09		Meifang ZHU	Donghua University, China
16:00-16:30	PL-05	Functional Nanofibers	Seeram RAMAKRISHNA	National University of Singapore, Singapore
16:30-17:30	Poster Presentation			
18:00	Dinner			

Tuesday Oct. 10

Morning

Venue: No. 2 Conference Hall

Plenary Lectures

Session chair:

08:30-09:00	PL-06		Stephen Z.D. CHENG	The University of Akron, USA
09:00-09:30	PL-10	Nano technology Convergence for the future IT, ET, BT	Jong Min KIM	University of Cambridge, UK
09:30-10:00	PL-08	Advancing Nanocellulose Technologies for Water Purification	Benjamin S. HSIAO	Stony Brook University, USA
10:00-10:20	Coffee Break			
<i>Session chair:</i>				
10:20-10:50	PL-04	Fibers Across Multiple Length Scales: from Electronics, Energy to Environment	Yi CUI	Stanford University, USA
10:50-11:20	PL-07	Fibrillar Structures, Transport Pathways and Stretchable Electronics	Elsa REICHMANIS	Georgia Institute of Technology, USA
11:20-11:50	Closing ceremony			
12:00-13:00	Lunch			
14:00-16:00	111 Project Annual Meeting			

Monday, Oct. 9

Morning

Oral Session

Venue: No.1 Conference Hall

Session D: Smart Fibers, Textile and Wearable Intelligent Device				
<i>Session chair: Hongzhi WANG</i>				
<i>Moderator: Patrick THEATO</i>				
08:00-08:20	KL-05-D-07	Synthesis, Characterization and Application of Two-Dimensional Materials	Jun LOU	Rice University, USA
<i>Moderator: Jun LOU</i>				
08:20-08:40	KL-03-D-05	From “active” polymers to smart fibers via post-modification polymerization	Patrick THEATO	Universität Hamburg, Germany
<i>Moderator: Zunfeng LIU</i>				
08:40-09:00	KL-04-D-06	Morphological Controls Toward Intrinsically Stretchable Organic Electronics	Qibing PEI	University of California, Los Angeles, USA
<i>Moderator: Qibing PEI</i>				
09:00-09:20	IL-05-D-04	A Bi-Sheath Fiber Strain Sensor for Wearable Healthcare Monitoring	Zunfeng LIU	Nankai University, China
<i>Moderator: Tao LI</i>				
09:20-09:40	IL-08-D-11	The design of wearable smart mouthguard in detecting Saliva and study on the properties of its electrochemical biosensors	Nan ZHU	Dalian University of Technology, China
09:40-10:00	Coffee Break			
<i>Session chair: Chengyi HOU</i>				

<i>Moderator: Shaoli FANG</i>				
10:00-10:20	KL-06-D-08	Soft Functionalization of Silk Fibroin Materials and Bio-Flexible Devices	Xiangyang LIU	National University of Singapore, Singapore
<i>Moderator: Xiangyang LIU</i>				
10:20-10:40	KL-02-D-02	Multifunctional Carbon Nanotube Fibers and Sheets that Sense, Actuate, and Store Energy	Shaoli FANG	The University of Texas at Dallas, USA
<i>Moderator: Zhisong LU</i>				
10:40-11:00	IL-28-D-13	Advanced Carbon and Silk Fibers/Fabric for Wearable Electronics	Yingying ZHANG	Tsinghua University, China
<i>Moderator: Yingying ZHANG</i>				
11:00-11:20	IL-04-D-03	Nano-functionalized Silk for Smart Wearable Devices	Zhisong LU	Southwest University, China
<i>Moderator: Nan ZHU</i>				
11:20-11:40	IL-07-D-10	Self-Assembled Monolayers of Functional Molecules for Solid-state Electronic Devices	Tao LI	Shanghai Jiao Tong University, China
11:40-11:55	OL-09-D-12	Smart Fibers Based on Low Dimensional Conductive Materials	Ranran WANG	Shanghai Institute of Ceramics, CAS, China
12:00	Lunch			

Venue: No.2 Conference Hall

Session F: Fibers and Polymers for Medical Applications
<i>Session chair: Ana Leite OLIVEIRA, Xiangyang SHI, Yaopeng ZHANG, Zhengwei YOU</i>
<i>Moderator: Ana Leite OLIVEIRA</i>

08:00-08:20	KL-07-F-01	Evaluation of drugs permeation through modified PVA blended membranes	Jenming YANG	Chang Gung University, Taiwan, China
08:20-08:40	KL-21-F-20	Structural Biopolymers - Using Nature's Building Blocks as an Inspiration for Advanced Manufacturing	Benedetto MARELLI	Massachusetts Institute of Technology, USA
08:40-09:00	KL-15-F-09	Biomedical Application of Rylenediimide-cored Dendritic Polymers	MeiZhen YIN	Beijing University of Chemical Technology, China
<i>Moderator: Jenming YANG</i>				
09:00-09:20	IL-36-F-15	Development of a novel injectable matrix for cartilage repair	Rui A. SOUSA	Stemmatters, Portugal
09:20-09:40	IL-17-F-11	Construction of Silk Materials	Yaopeng ZHANG	Donghua University, China
09:40-10:00	IL-13-F-05	Multi-functional poly(3,4-ethylenedioxythiophene)-based conducting biointerfaces through polymerization techniques and molecular design	Shyh-Chyang LUO	National Taiwan University, Taiwan, China
10:00-10:20	Coffee Break			
<i>Moderator: Yaopeng ZHANG</i>				
10:20-10:40	KL-35-F-14	3D Printed High Strength Hydrogels as Tissue Engineering Scaffolds	Wenguang LIU	Tianjing University, China
10:40-11:00	KL-09-F-07	Silk Biomaterials for Engineering Complex Tissues: Going Beyond the Fiber	Ana Leite OLIVEIRA	Portuguese Catholic University, Portugal
11:00-11:20	KL-08-F-02	Insights into the flow processing of silks	Chris HOLLAND	University of Sheffield, UK
<i>Moderator: Wenguang LIU</i>				

11:20-11:40	IL-12-F-04	Negative Sorting of Circulating Tumor Cells Using a Microfluidic Platform Integrated with Streptavidin-Functionalized PLGA Nanofibers	Xiangyang SHI	Donghua University, China
11:40-12:00	IL-14-F-08	Electrospun fibrous scaffolds with shape memory effect for in situ bone regeneration	Yanzhong ZHANG	Donghua University, China
12:00	Lunch			

Venue: No.3 Conference Hall

Session B: Chemistry and Physics in Fibers and Textiles				
<i>Session chair: Gang SUN</i>				
08:00-08:20	KL-11-B-01	Chlorine Rechargeable Biocidal Polymers and Fibers for Biological Protection and Food Safety	Gang SUN	University of California, Davis, USA
08:20-08:40	KL-12-B-02	Multiaxial Mechanical Behavior at Single Fiber Scale: From Micro-Mechanisms to Single Fiber Compression Tests	Alba MARCELLAN	ESPCI Paris Tech, France
08:40-09:00	KL-13-B-03	Simultaneous Structure Formation and Dyeing of PET Fibers through Cold-Drawing in Ethanol - Utilization of Infusion Phenomena	Takeshi KIKUTANI	Tokyo Institute of Technology, Japan
09:00-09:20	KL-14-B-04	New Methods for Making Filament Nanofibers and Their Use for Functional Materials	Sergeiy MINKO	University of Georgia, USA
09:20-09:40	IL-24-B-05	Fabrication and properties of novel porous polymer and carbon materials	Dingcai WU	Sun Yat Sen University, China

09:40-10:00	IL-25-B-06	Functional PVA-co-PE Nanofiber Membrane Obtained by Surface Chemical Structural Modification	Dong WANG	Wuhan Textile University, China
10:00-10:20	Coffee Break			
Session chair: <i>Zhengguo CAI</i> , Weiwei ZUO				
10:20-10:40	KL-15-B-07	Rheological and enthalpic response of ultra-high molecular weight polyethylene melts	Sanjay RASTOGI	Loughborough University, USA
10:40-11:00	KL-27-B-09	Ionic Liquid-Based Polyelectrolyte Membranes: Synthesis & Applications	Feng YAN	Suzhou University, China
11:00-11:20	IL-26-B-08	Preparation and Piezoelectric Properties Investigation of Electrospun Poly(vinylidene fluoride) Fibrous Membranes	Sheng CHEN	Sichuan University, China
11:20-11:35	OL-11-B-10	Fractal carbon nanotube fibers with mesoporous crystalline structure	Hangbo YUE	Guangdong University of Technology, China
11:35-11:50	OL-12-B-11	Improvement of Dyeability of Aromatic co-Polysulfonamide Fibers Using γ -ray irradiation induced Graft Polymerization	Jinchao YU	Donghua University, China
11:50-12:05	OL-13-B-12	Effect of alkali oxide on the fluid flow of glass fibers based on the Poiseuille equation	Qingwei WANG	Donghua University, China
12:05	Lunch			

Venue: No. 3 Conference Room

Session A: High-Performance Fibers and Composites				
<i>Session chair: Muhuo YU, Qinghua ZHANG</i>				
08:00-08:45	Open			
08:45-09:05	KL-01-A-01	High Performances of Plant Fiber Reinforced Composites	Yan LI	Tongji University, China
09:05-09:25	KL-03-A-03	Precise Control of Membrane Structure for High-Performance Separation	Jian JIN	Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, China
09:25-09:45	IL-02-A-02	Influence of Treatment Conditions on Structure and Mechanical Properties of BPDA-PDA Polyimide Fibers	Xiangling JI	Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China
09:45-10:00	OL-01-A-04	Heterogeneous catalysis based on synthetic fibers	Xianlei SHI	Institutes of Technology of Henan, China
10:00-10:20	Coffee Break			
Session I: Low Dimensional Materials				
<i>Session chair: Zhigang CHEN</i>				
10:20-10:40	KL-41-I-05	DNA nanotechnology-enabled engineering at the biosensing interface	Chunhai FAN	Shanghai Institute of Applied Physics, Chinese Academy of Sciences (CAS), China
10:40-11:00	KL-48-I-12	A Novel Hydrophilic Anti-Frogging Prepared by Cellulose Nanofibrils Manufactured via Formic Acid Hydrolysis plus the Followed High Pressure Homogenization	Dannong HE	National Engineering Research Center for Nanotechnology, China
11:00-11:20	IL-43-I-07	The synthesis, spectral regulation and	Qianqian SU	Shanghai University,

		biological applications of transformation luminescent material		China
11:20-11:40	IL-45-I-09	Polymer-functionalized graphene nanoribbons with excellent liquid-phase dispersibility	Yiyong MAI	Shanghai JiaoTong University, China
11:40-11:55	OL-02-I-01	Advanced oxide ceramic composites based on graphene	Yuchi FAN	Donghua University, China
12:00	Lunch			

Venue: No. 7 Conference Room

Session C:Nano-Technologies in Fibers and Polymers				
& Session E:Environmentally Friendly Fibers and Polymers				
<i>Session chair: Yaozu Liao, Shengyuan Yang</i>				
08:00-08:20	KL-16-C-01	Protein resistant and antithrombogenic properties of amphiphilic block copolymer coatings prepared by RAFT polymerization	Kazutoshi HARAGUCHI	Nihon University, Japan
08:20-08:40	KL-29-C-03	Multifunctional, responsive hydrogels and nanoreactors as selective compartments and actuators in microfluidics	Brigitte VOIT	Leibniz Institute of Polymer Research Dresden, Germany
08:40-08:55	OL-14-C-04	Multifunctional Electrospun Nanofiber for Air Filter	Yanyun JU	Wuhan University of Technology, China
08:55-09:10	OL-15-C-05	Cellulose nanofibers and their polymer composites from Indonesian Agricultural Wastes	Farah FAHMA	Bogor Agricultural University, Indonesia

09:10-09:25	OL-16-C-06	Highly Conductive One-Dimensional Nanobers: Silvered Electrospun Silica Nanobers via Poly(dopamine) Functionalization	Ye FU	Beijing University of Chemical, China
09:25-10:00	Open			
10:00-10:20	Coffee Break			
<i>Session chair: Xuefen Wang, Chunju He</i>				
10:20-10:40	KL-17-C-02	Raft, Snapps and Superbugs	Greg QIAO	University of Melbourne, Australia
10:40-11:00	IL-38-CE-01	Fabrication and application of Forward Osmosis Composite Membrane based on Nanofiber Membrane Support Layer	Zhenliang XU	East China University Of Science, China
11:00-11:15	OL-21-CE-03	Nanofibrous Scaffold for Highly Efficient Adsorption of Lanthanide Ions and its Photoluminescence	Min WANG	Donghua University, China
11:15-11:30	OL-23-CE-05	Functionalization of Natural Wood Fiber Toward Highly Transparent Nanofibrous Paper	Detao LIU	South China University of Technology, China
11:30-11:45	OL-24-CE-06	Biodegradable PLA Non-woven Fabric with Enhanced Functionalization of Controllable Wettability for Efficient Water Purification	Jiawei ZHANG	Institute of materials technology and engineering, Chinese Academy of Sciences, China
11:45-12:00	Open			
12:00	Lunch			

Afternoon

Oral Session

Venue: No.1 Conference Hall

Session F: Fibers and Polymers for Medical Applications & Session E. Environmentally Friendly Fibers and Polymers				
<i>Session Chair: Ana Leite OLIVEIRA, Xiangyang SHI, Yaopeng ZHANG, Zhengwei YOU, Xuefen Wang, Chunju He</i>				
<i>Moderator: Xiangyang SHI</i>				
13:00-13:20	KL-20-F-13	Bioengineering of Hydrogels for Smart Wound care	Bhuvanesh GUPTA	Indian Institute of Technology, India
13:20-13:40	IL-11-F-03	Design and preparation of textile-based devices for medical applications	Lu WANG	Donghua University, China
13:40-14:00	IL-16-F-10	Functional biodegradable elastomers for biomedical applications	Zhengwei YOU	Donghua University, China
<i>Moderator: Bhuvanesh GUPTA</i>				
14:00-14:20	IL-X-F-20	Poly (dopamine)-inspired surface functionalization of polypropylene tissue mesh for prevention of intra-peritoneal adhesion formation	Tianzhu HANG	Southeast University, China
14:20-14:40	IL-18-F-17	Architecture, Self-assembly and Applications of Hybrid Polymers Based on Polyhedral Oligmeric Silsequioxane (POSS)	Weian ZHANG	East China University of Science, China
14:40-14:55	OL-19-F-18	Electrospun silver ions-loaded antibacterial composite fibrous membranes for guided bone regeneration	Shue JIN	Sichuan University Analysis and Testing Center, China
15:00-16:00	Poster Presentation and Coffee Break			

<i>Moderator: Chris HOLLAND</i>				
16:00-16:20	IL-10-F-06	Development of Novel Nano-in-Nano Drug Delivery Systems	Fang YANG	Radboud university medical center, Netherlands
16:20-16:40	IL-39-FE-02	Eco-Friendly Microporous Organic Polymers Based on Hyper-Crosslinked Pitch and Coal Tar: Preparation and Application	Lei LI	Xianmen University, China
16:40-16:55	OL-37-F-16	Advanced Double-network Hydrogel Fibers from Hydrophilic Polyurethane	Bin FEI	Hong Kong Polytechnic University, Hong Kong China
<i>Moderator: Zhengwei YOU</i>				
16:55-17:15	IL-20-F-19	The formation of self-assembly nanometer fiber used in protein detection and imaging of the polymer	Dan DING	Nankai University, China
17:15-17:30	OL-22-FE-04	Nanofiber composite membranes of nanocellulose/sulfophenylated poly(ether ether ketone ketone)	Wei HU	Changchun University of Technology, China
17:30-17:45	OL-05-F-12	Zwitterion-Functionalized PEI/PVA Nanofibers Embedded in a Microfluidic Chip for Efficient Capture and Intact Release of Circulating Tumor Cells	Yunchao XIAO	Donghua University, China
18:00	Dinner			

Venue: No.2 Conference Hall

Session J: Multi-functional and Multi-material Fibers				
<i>Session chair: Shuguang YANG</i>				
13:00-13:20	KL-55-J-06	From Small Molecule to Supramolecular Polymer to Supramolecular Nanotube Yarn	Minghua LIU	Institute of Chemistry Chinese Academy of Sciences, China
13:20-13:40	KL-24-J-07	Advanced Multi-Material Fibers	Fabien SORIN	EPFL, Switzerland
13:40-13:55	IL-23-J-02	From Optical Fibers to Advanced Functional Fibers	Guangming TAO	Huazhong University of Science and Technology
13:55-14:10	IL-52-J-03	Fluid instability during thermal drawing processing for fibers	Daosheng DENG	Fudan University, China
14:10-14:25	IL-53-J-04	Electrospun polymer fiber network for acoustic metamaterials	Jianfeng ZANG	Huazhong University of Science and Technology, China
14:25-14:40	IL-54-J-05	Plasmonic fiber-optic biomedical sensors	Tuan GUO	Ji'nan University, China
14:40-14:55	IL-06-D-09	Advanced Functional Semiconductor Fibers	Lei WEI	Nanyang Technology University, Singapore
15:00-15:30	Poster Presentation and Coffee Break			
<i>Session chair: Guangmin TAO</i>				
15:30-15:50	KL-56-J-09	Crystalline/Single Crystal Semiconductor Optoelectronic Fibers and Devices	John BADDING	Pennsylvania State University, USA

15:50-16:10	KL-22-J-01	Multiscale Construction of Graphene Fibers with High-Performances	PingAn HU	Harbin Institute of Technology, China
16:10-16:25	IL-57-J-10	Development of new optical functional materials based on composition design and structure analysis	Ge-Mei CAI	Central South University, China
16:25-16:40	IL-58-J-11	Fibril Network Bulk Heterojunction Blends for High Efficiency Organic Photovoltaics	Feng LIU	Shanghai Jiao Tong University, China
16:40-16:55	IL-59-J-12	The implantable biodegradable optical fiber used in neural science	Xing SHENG	TsinghuaUniversity, China
16:55-17:10	IL-XX-J-13	Polymer Complexation for Multicomponent Fibers	Shuguang YANG	Donghua University, China
17:10-17:25	IL-XX-J-14	Multifunctional photonic fibers: sensing through structure and material	Xian FENG	Beijing University of Technology, China
17:25-17:40	IL-25-J-13	Designing and tuning the optical properties of Perylene Tetracarboxylic Diimides by POSS side chain and bay area substitutions	Bin SUN	Donghua University, China
18:00	Dinner			

No.3 Conference Hall

Session H: Natural Fibers and Biomimetic Polymers				
<i>Session chair: Huaping WANG</i>				
13:00-13:20	Open			
13:20-13:40	KL-18-H-01	Melt-Spun PLLA-PDLA Fibers with Completely Stereo-Complexed Crystallites	Yiqi YANG	University of Nebraska-Lincoln, USA
13:40-14:00	IL-XX-H-07	Fibrous Branched-Clusters: The Next Generation of Tissue Regeneration Templates	Gary BOWLIN	University of Memphis, USA
14:00-14:20	IL-31-H-04	Electrospun Nanofiber and Nanoyarn for Tissue Engineering	Xiumei MO	Donghua University, China
14:20-14:40	IL-32-H-05	Biomimetic Gelatin/Bacterial Cellulose Nanofiber Hybrid Scaffolds and Their Improved Cellular Response	Shiyan CHEN	Donghua University, China
14:40-15:00	IL-34-H-06	New insight into the gelation of Na-alginate aqueous solution	Ruigang LIU	Institute of Chemistry, Chinese Academy of Sciences, China
15:00-16:00	Poster Presentation and Coffee Break			
<i>Session chair: Xiumei MO, Shiyan CHEN</i>				
16:00-16:20	KL-19-H-02	Nanostructure control for fabrication of CNF filaments	Daniel SODERBERG	KTH Royal Institute of Technology, Sweden
16:20-16:35	OL-X-H-07	Esterification of Polymorphs of Cellulose Nanocrystals: Crystallinity and Thermal Decomposition	Jun XU	South China University of Technology, China
16:35-16:50	OL-X-H-08	One-step Solvent Media Process Toward the Production of Cellulose Nanofibers	Detao LIU	South China University of Technology, China
16:50-18:00	Open			
18:00	Dinner			

Venue: No. 3 Conference Room

Session I: Low Dimensional Materials				
<i>Session chair: Wan JIANG</i>				
13:00-13:20	KL-40-I-04	Nanotechnology for Innovative Cancer Therapy	Zhuang LIU	Suzhou University, China
13:20-13:40	IL-46-I-10	Assembly of Polymer-Tethered Inorganic Nanoparticles in Confined Spaces	Jintao ZHU	Huazhong University of Science and Technology, China
13:40-14:00	IL-42-I-06	Molybdenum Disulfide-Based Nanoplatfrom for Cancer Theranostics	Chuanglong HE	Donghua University, China
14:00-14:20	IL-47-I-11	Inorganic Biomaterials	Yu CHEN	Shanghai Institute of Silicate of CAS, China
14:20-14:40	IL-44-I-08	Ultrasonic assisted solution deposition of graphene based nano-composite thin films; Highly-efficient functional component for opto-electrical devices	Fatemeh ZABIHI	Donghua University, China
14:40-15:00	IL-51-I-15	Nitrogen-containing Conjugated Microporous Polymers and Their Derived Carbons for Gas Capture and Energy Storage and Conversion	Yaozu LIAO	Donghua University, China
15:00-16:00	Poster Presentation and Coffee Break			
<i>Session chair: Yuchi FAN</i>				
16:00-16:20	KL-50-I-14	Recision Synthesis and Industrialization Efforts for Hyperbranched Polymers	Xinyuan ZHU	Shanghai Jiao Tong University, China
16:20-16:40	IL-49-I-13	Synthesis of inorganic-organic nanocomposites for the imaging and therapy of tumor	Zhigang CHEN	Donghua University, China

16:40-16:55	OL-04-I-03	Rational design for copper chalcogenide to enhance the photothermal conversion efficiency and their application	Qiwei TIAN	Shanghai Normal University, China
16:55-17:10	OL-03-I-02	Transmission Electron Microscopy of Low-Dimensional Nanomaterials	Fangfang XU	Shanghai Institute of Silicate of CAS, China
17:10-18:00	Open			
18:00	Dinner			

Venue: No. 7 Conference Room

Session G: Fibers and Polymers for Energy Applications				
<i>Session chair: Tianxi LIU</i>				
13:00-13:20	KL-10-G-01	Smart Fiber Materials and Devices	Huisheng PENG	Fudan University, China
13:20-13:40	KL-01-G-01	Functional Nanofibers for Advanced Energy Storage by Centrifugal Spinning	Xiangwu ZHANG	NC State University, USA
13:40-14:00	IL-18-G-02	Unique Energy Harvesting Performances of Electrospun Nanofiber Webs	Tong LIN	Deakin University, Australia
14:00-14:20	IL-19-G-03	Achieving High-powered Zn/air fuel cells through Doped Hierarchically Porous Carbons Derived from Quaternized Copolymers as Oxygen Electrocatalysts	Jinli QIAO	China
14:20-14:40	IL-21-G-05	Electrospun Nanofibres of High-Performance Polymer Prepared by Solid-state Polymerization of Molecularly Self-assembled Monomers	Haoqing HOU	Jiangxi Normal University, China
14:40-15:00	IL-22-G-06	Self-Powered Systems with Fiber-Shaped Devices	Wenjie MAI	Jinan University, China
15:00-16:00	Poster Presentation and Coffee Break			

Session chair: Chao ZHANG

16:00-16:20	KL-20-G-04	Graphene Fibers: Scalable Preparation and Energy-Related Applications	Chao GAO	Zhejiang University, China
16:20-16:40	IL-23-G-07	Microstructural Design of Fibrous Electrode for Wearable Energy Storage	Gengzhi SUN	Nanjing Tech University, China
16:40-17:00	IL-24-G-08	Thermoplastic nanofibrous membranes as controllable porous scaffolds for high efficient energy conversion applications	Qiongzhen LIU	Wuhan Textile University, China
17:00-17:20	IL-XX-G-09	Constructing Highly Planar Conjugated Systems through Nonbonding Conformational Locks	Hui HUANG	University of Chinese Academy of Sciences, China
17:20-17:35	OL-06-G-09	Design, Preparation and Application of One-dimensional Carbonaceous Electrocatalytic Nanocomposites	Yue MIAO	Donghua University, China
17:35-17:50	OL-07-G-10	Controllable Synthesis of 1D Hierarchical Nanostructures for Efficient Electrochemical Catalysis	Yunpeng HUANG	Jiangsu University, China
17:50-18:05	OL-08-G-11	Electrospun Fibers for Electrocatalytic Oxygen Reduction Reaction	Yongpeng LEI	National University of Defense Technology /Zhongnan University, China
18:05-18:20	OL-09-G-12	Molecular Mobility and Physical Aging of Superglassy Polymer Membranes as Revealed by Dielectric Spectroscopy	Huajie YIN	German Federal Institute of Materials, Germany
18:20	Dinner			

Poster Presentations

P-01-A-01	Preparation, Structure and Mechanical Properties of Novel Nylon 56 Fibers	Yassir A. ELTAHIR	University of Gezira, Switzerland
P-02-A-02	Preparation and properties of polyamide 6 fiber nibs	He REN	Donghua University, China
P-03-A-03	Stab-Resistant Performance of Fabrics with Hard Particles	Wanqiu YANG	Donghua University, China
P-04-A-04	Study on the Stab-resistant Performance of Composite Fabric with Resin Flakes	Jiping DONG	Donghua University, China
P-05-A-05	Effect of Aging Environment on the Properties of Basalt Fiber	Lida LUO	Donghua University, China
P-06-A-06	Effect of redox states of iron in basalt fiber on its mechanical properties	Lida LUO	Donghua University, China
P-07-A-07	Graphene oxide modified sodium alginate/krill protein composite fiber	Rui ZHANG	Dalian Polytechnic University, China
P-08-A-08	Functionalized Polymer Matrices for Metal Catalysis by Electrospinning	Franziska GRIESING	University of Hamburg, Germany
P-09-A-09	3D Printed Continuous Flow Reactor for Inline Reaction Tracking	Marcel FASSBENDER	University of Hamburg, Germany
P-10-A-10	Surface Modification of PPTA Fibers by UV Irradiation-Accelerated Deposition of Catechol/Polyamine and Secondary Functionalization	Sixian CHEN	Beijing University of Chemical, China
P-11-A-11	The comparison and research of Controllable shear field unimodal and bimodal hdpe crystallization behavior	Sumin GAO	Donghua University, China
P-12-A-12	Preparation and Characterization of Halogen-Free Flame Retardant Polyamide 6 Fiber	Ziwen GAN	Dalian Polytechnic University, China
P-13-A-13	Regio-Selective Substitution at the 1,3- and 6,8-Positions of Pyrene for the Construction of Small Dipolar molecules	Xing FENG	Beijing Institute of Graphic Communication, China

P-14-B-01	Study on the Interfacial Tension of Immiscible Polystyrene/Polypropylene Blend with Improved Deformed Drop Retraction Method	Dan PAN	Donghua University, China
P-15-B-02	Air Drawing Effect of the Auxiliary Nozzle in the Melt Blowing Process	Lili WU	Suzhou University, China
P-16-B-03	Insight into the Relationship between Creep Behavior and Structure of Polyester Industrial Yarns	Kang CHEN	Donghua University, China
P-17-C-01	Functionalization of Activated carbonfiber with Nano Titanium Dioxide as Efficiency Filter Material for Formaldehyde Removal	Kemei PEI	Zhejiang University of Technology, China
P-18-C-02	Electrostatic spinning preparation of nanometer fiber and its application research in the filter mask	You LI	Astronaut research and training center, China
P-19-C-03	The application of Shell of nuclear structure essence capsule in textiles	Guang SHI	South China Normal University, China
P-20-C-4	Biodegradable PLA Non-woven Fabric with Enhanced Functionalization of Controllable Wettability for Efficient Water Purification	Weili LI	Jiangsu University of Science and Technology, China
P-21-C-05	A Biopolymer-Drug Conjugate Nanotheranostics for Multimodal Imaging-Guided Synergistic Cancer Photothermal-Chemotherapy	Dengkun SHU	Tianjin Polytechnic University, China
P-22-C-06	Electrospinning of Chitosan/Pullulan Nanofiber mats for Wound dressing applications	Lina WANG	Henan University of Urban construction, China
P-23-C-07	Electrospun silver ions-loaded antibacterial composite fibrous membranes for guided bone regeneration	Xie ZHENG	Donghua University, China
P-24-C-08	Preparation and Fluorescence Property of PET Luminescence Fibers with Different Rare Earth Complexes	Yongjia LIU	Shanghai Jiaotong University, China
P-25-D-01	Flexible asymmetric fiberlike supercapacitors based on ternary NiCo ₂ Se ₄ nanosheet and NiCo ₂ O ₄ @PPy electrodes	Daohong ZHANG	South-Central University for Nationalities, China
P-26-D-02	Preparation of Conductive Textile Electrodes and Their	Haiming TAN	South China University

	Properties		of Technology, China
P-27-D-03	A knittable fiber-shaped supercapacitor based on commercial polyacrylonitrile thread for wearable electronics	Wei PAN	Zhongyuan University of Technology, China
P-28-D-04	Ring-Opening Metathesis Polymerization of Norbornene Derivatives with Long Flexible Functionalized Side Group	Haiyan PEI	Zhongyuan University of Technology, China
P-29-D-05	The synthesis of PEDOT: PSS and the application of super capacitor electrode materials	Xianqiang SUN	Zhongyuan University of Technology, China
P-30-D-06	The preparation and the research of structure and performance of intelligent and wearable metal filament core-spun yarn	Yan ZHANG	Donghua University, China
P-31-D-08	Efficient visible-light driven mpg-C ₃ N ₄ /TiO ₂ composite photocatalyst: facile preparation and enhanced catalytic activity	Shuang WANG	Donghua University, China
P-32-D-09	An Ultra-sensitive and Stretchable Nanofiber-based Flexible Sensor for Electronic Skin Applications	Kun QI	Zhongyuan University of Technology, China
P-33-D-10	Preparation of porous ultrafine SF fibers via selective dissolution of electrospun SF/PLA blend fibers	Jiwei HUANG	Guangxi university of science and technology, China
P-34-D-10	Monodisperse Silver Nanoparticles loaded Thermo-responsive Nanofibrous membrane as a Free-standing SERS Substrate with Thermo-enhanced Efficiency	Siyuan CHEN	Donghua University, China
P-35-E-01	Preparation and Characterization of Halogen-Free Flame Retardant Polyamide 6 Fiber	Ke LIU	Donghua University, China
P-36-E-02	Preparation of Waterborne Epoxy Resin Emulsion by Middle-Temperature Radical Graft Polymerization	Wankai ZHENG	Zhejiang University of Technology, China
P-37-E-03	Electrochemical Growth of Polyaniline on Active Carbon / Carbon Fiber Cloth with Enhanced Electrochemical Performance for Flexible Supercapacitors	Shiyun ZHU	South China University of Technology, China
P-38-F-01	Electrospinning of Chitosan/Pullulan Nanofiber mats for	Wajeeh ullah	Donghua University,

	Wound dressing applications		China
P-39-F-02	A Biopolymer-Drug Conjugate Nanotheranostics for Multimodal Imaging-Guided Synergistic Cancer Photothermal-Chemotherapy	Chang DU	Shanghaijiaotong University, China
P-40-F-03	Tumor Microenvironment pH and Reduction-Responsive Polypeptide Nanomedicine	Yue DING	Shanghai Jiao Tong University, China
P-41-F-04	Preparation and Characterization of Electrospun Fiber Mats from Regenerated Antheraea pernyi Silk Fibroin Aqueous Solutions	Shengzhi ZOU	Donghua University, China
P-42-F-05	Bladder Acellular Matrix Hydrogel Dually-Reinforced with Silk Fibroin Mats and Biocompatible Cross Linker	Wenjing LIU	Donghua University, China
P-43-F-06	Antibacterial Silk Fibroin Scaffolds Modified with 2-Hydroxypropyl Trimethyl Ammonium Chloride Chitosan	Kai CHEN	Donghua University, China
P-44-F-07	Construction and 3D Printing of Fiber Reinforced Biomimetic Hybrid Materials for Dental Restoration	Menglu ZHAO	Donghua University, China
P-45-F-08	Design, Preparation and Application of One-dimensional Carbonaceous Electrocatalytic Nanocomposites	Ran GAO	Donghua University, China
P-46-F-09	One-dimensional $Mg_xTi_yO_{x+2y}$ nanostructures: General synthesis and Enhanced Photocatalytic Performance	Gandong LIU	Dalian Polytechnic University, China
P-47-F-10	An ultra-high performance fiber catalyst for biomass conversion	Xing GE	Donghua University, China
P-48-G-01	Polypyrrole assisted Cu NPs Deposition on cellulose papers for energy storage	Yang YANG	South China University of Technology, China
P-49-G-02	Electrochemical Growth of Polyaniline on Active Carbon / Carbon Fiber Cloth with Enhanced Electrochemical Performance for Flexible Supercapacitors	Yuerong BA	Zhongyuan University of Technology, China
P-50-G-03	The synthesis of carbon fiber type iron cobalt nanoparticles and the performance research of peroxidase and homocysteine detection	Zezhou YANG	Jilin University, China

P-51-G-04	An ultra-high performance fiber catalyst for biomass conversion	Xianlei SHI	Institutes of Technology of Henan, China
P-52-G-05	One-dimensional $Mg_xTi_yO_{x+2y}$ nanostructures: General synthesis and Enhanced Photocatalytic Performance	Guorui YANG	Xi'an Jiaotong University, China
P-53-H-01	Interaction between Carbon Black and NMMO in the preparation of dope dyed Lyocell fibers	Hong JIN	DongHua university, China
P-54-H-02	Establishment and application of a test method for the fibrillation of regenerated cellulose fibers	Yuan WEI	Donghua University, China
P-55-H-03	Starch-graft-Polyacrylonitrile Nanofibers by Electrospinning	Yumei GONG	Dalian Polytechnic University, China
P-56-H-04	Preparation of krill protein/cellulose composite fiber and the research of mechanical properties	Jingxing SONG	Dalian Polytechnic University, China
P-57-H-05	Synthesis and Texture Transformation of Cellulose Side Chain Liquid Crystals	Yangyang HAN	Tianjin Polytechnic University, China
P-58-H-06	Flexible asymmetric fiberlike supercapacitors based on ternary $NiCo_2Se_4$ nanosheet and $NiCo_2O_4@PPy$ electrodes	Wenchi XUE	Tianjin Polytechnic University, China
P-59-I-02	Regio-Selective Substitution at the 1,3- and 6,8-Positions of Pyrene for the Construction of Small Dipolar	Yan ZHAO	Jiangsu University, China
P-60-I-03	Study on Structures and Properties of Ultra-Hot Drawing UHMWPE Fibers Fabricated via Dry Spinning Method	Xinwei WANG	Hanghai Research Institute of Chemical Industry, China
P-61-J-01	Design, Construction and Characteristics of Flexible Janus Nanofibers and Their Arrays Endowed with Tuned Fluorescent Color-Electricity Bifunctionality	Xue XI	Changchun University of Science and Technology, China
P-62-J-02	Preparation of rare earth fluorescent fiber using melt spinning method	Shiwei WANG	Dalian Polytechnic University, China
P-63-A-14	Preparation and Electromagnetic Wave Absorption Properties of Cobalt/Carbon Composite Nanofiber Membranes	Ibrahim Ali Altoom ABDALLA	Donghua University, China
P-64-A-15	Effect of graphene oxide on interface of carbon	Elwathig Abd Alla Mohamed	Donghua University,

	fiber/polyetheretherketone composites	HASSAN	China
P-65-A-16	Fabrication of flexible carbon nanofiber composite electrode embedded with porous silica nanoparticles for lithium ion batteries	Ahmed ABOALHASSAN	Donghua University, China
P-66-A-17	Synthesis of Monodisperse and Porous Ag Nanoparticles/Polystyrene Microcomposite Particles by Seeded Suspension Polymerization	Xiaohuan JI	Donghua University, China
P-67-A-18	Numerical simulation of melt flow behavior of ABS/CNT composite in FDM process	Jin CHU	Donghua University, China
P-68-B-04	The interaction between graphene oxide and polyacrylonitrile in spinning solutions	Fengmei LI	Donghua University, China
P-69-C-09	Chemical Crosslinked EVOH Nanofiber Aerogels with Superelasticity and Superoleophilicity for Removal of Oils and Organic Solvents	Jianwei LU	Donghua University, China
P-70-C-10	Controllable Micro-nano Assembly of Bio-functionalized Poly(3,4-ethylenedioxythiophene) and their Applications in Tumor Cell Capturing	Zhi GENG	Donghua University, China
P-71-C-11	Preparation and Characterization of Ternary Poly(arylene ether sulfone) Copolymer Nanofibrous Membranes via Soltion-blowing	Guocheng SONG	Donghua University, China
P-72-C-12	Facil synthesis of polyaniline-nanorods/MnO ₂ nanocomposites for supercapacitor electrodes with improved electrochemical properties	Mebrahtu Melake MEZGEBE	Donghua University, China
P-73-D-12	A novel approach to design a nanoporous polyethylene/polyester composite fabric for human body cooling	Rong LIU	Donghua University, China
P-74-F-10	Amine(imine)diphosphine Iron Catalysts for Asymmetric Transfer Hydrogenation of Ketones and Imines	Shangfei HUO	Donghua University, China
P-75-F-11	Physically chemically hybrid crosslinking: an efficient way to construct strong, tough, while soft, biodegradable	Shuo CHEN	Donghua University, China

	elastomers		
P-76-G-06	Synthesis and Controllable Time Reaction of Crosslink Organic-Inorganic Hybrids with Near Infrared Absorption	Nahla OMER	Donghua University, China
P-77-I-04	Fabrication of nano-sized attapulgite-based aerogels as anode material for lithium ion batteries	Ye LAN	Donghua University, China
P-78-I-05	Growth of C ₃ N ₄ Nanosheets on Carbon-fiber Cloth as Flexible and Macroscale Filter-membrane-shaped Photocatalyst for Degrading the Flowing Wastewater	Xiaofeng SHEN	Donghua University, China
P-79-I-06	One-Pot Synthesis and Characterization of Graphene with Grafted Phosphorus-Nitrogen Flame Retardant	Fanxin ZENG	Donghua University, China
P-80-I-07	Interfacial Complexation of Cellulose Nanocrystals with Synthetic and Bio-based polyelectrolytes	Haio Yagoub Alshikhhajo ABDALGADER	Donghua University, China
P-81-J-03	Interlayer-functionalization of α -ZrP with vinyl groups and its thiol-ene click for improving grafting ratio	Hossamaldin Ahmed OMER	Donghua University, China