



ISBPLM2022 Xi'an China

**International Symposium on Biorefining, Papermaking, and
Lignocellulosic Materials 2022 (ISBPLM 2022)**

Tentative Program Book

Organizer : Shaanxi University of Science & Technology

April 26-28, 2023 Xi'an, China



International Symposium on Biorefining, Papermaking, and Lignocellulosic Materials 2022 (ISBPLM 2022)

April 26-28, 2023, Xi'an, China

SYMPOSIUM PROGRAM

Shaanxi University of Science & Technology, Xi'an, China

Sponsored and Organized by:

Shaanxi Provincial Key Laboratory of Papermaking Technology and Specialty Paper Development,
Shaanxi University of Science & Technology

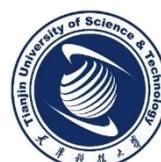
State Key Laboratory of Pulp and Paper Engineering, South China University of Technology

Tianjin Key Laboratory of Pulp and Paper, Tianjin University of Science & Technology

Jiangsu Provincial Key Lab of Pulp and Paper Science and Technology, Nanjing Forestry University

State Key Laboratory of Biobased Material and Green Papermaking, Qilu University of Technology

Guangxi Key Lab of Clean Pulp & Papermaking and pollution Control, Guangxi University



Introduction

The International Symposium on Biorefining, Papermaking, and Lignocellulosic Materials 2022 (ISBPLM 2022) will be held at Shaanxi University of Science & Technology (SUST) in Xi'an, China from April 26 to 28, 2023. For convenience, the symposium will be held in both online and offline forms. The conference will provide a good platform for domestic and foreign experts, scholars and entrepreneurs in biorefining, papermaking, and lignocellulosic materials and other related fields for learning and communicating from each other. The symposium will be sponsored and organized by Shaanxi University of Science & Technology (SUST), South China University of Technology (SCUT), Tianjin University of Science & Technology (TUST), Nanjing Forestry University (NFU), Qilu University of Technology (QUT) and Guangxi University (GXU).

Organization and Chief Principals

Conference Chairman

Zhijian Li - Shaanxi University of Science & Technology, Xi'an, China

Co-Chairs

Meiyun Zhang - Shaanxi University of Science & Technology, Xi'an, China

Xiaohui Wang - South China University of Technology, Guangzhou, China

Zhong Liu - Tianjin University of Science & Technology, Tianjin, China,

Yongcan Jin - Nanjing Forestry University, Nanjing, China

Jiachuan Chen - Qilu University of Technology, Jinan, China

Chengrong Qin - Guangxi University, Nanning, China

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Lihui Chen, Fujian Agriculture and Forestry University

Gang Chen, South China University of Technology

Hongqi Dai, Nanjing Forestry University

Guigan Fang, Institute of Chemical Industry of Forest Products, Chinese Academy of Forestry

Shiyu Fu, South China University of Technology

Qingxi Hou, Tianjin University of Science and Technology

Xingxiang Ji, Qilu University of Technology

Fangong Kong, Qilu University of Technology
Xuehui Li, South China University of Technology
Chuanfu Liu, South China University of Technology
Zhaoqing Lu, Shaanxi University of Science and Technology
Hongbin Liu, Tianjin University of Science and Technology
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Junli Ren, South China University of Technology
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Chuanling Si, Tianjin University of Science and Technology
Weibing Wu, Nanjing Forestry University
Lijun Wang, Zhejiang University of Science and Technology
Feng Xu, Beijing Forestry University
Yongjian Xu, Shaanxi University of Science and Technology
Haipeng Yu, Northeast Forestry University
Guihua Yang, Qilu University of Technology
Haidong Yu, Northeast Forestry University
Haitao Yang, Hubei University Of Technology
Jinghong Zhou, Guangxi University
Hongxiang Zhu, Guangxi University
Sufeng Zhang, Shaanxi University of Science and Technology
Pedram Fatehi, Lakehead University
Akira Isogai, Tokyo University
Nucharin Luangsa-ard, King Mongkut's University of Technology Thonburi
Yonghao Ni, University of Maine
Yoshiharu Nishiyama, CNRS and Grenoble Alpes University
Mousa Nazhad, Asian Institute of Technology
Sawitree Pisuttipiched, Kasetsart University,
Orlando Rojas, The University of British Columbia
Thomas Rosenau, Agricultural University of Vienna
Elias Retulainen, VTT Technical Research Centre of Finland Ltd
Waranyou Sridach, Prince of Songkla University
Martti Toivakka, Åbo Akademi University

Yasumitsu Uraki, Hokkaido university
Esa Viljakainen, Aalto University
Huining Xiao, University of New Brunswick
Chunlin Xu, Åbo Akademi University
Junyong Zhu, USDA, Forest Products Lab
Hongli Zhu, Northwestern University
Xuejun Zou, Chemical Process at FPInnovations

Organizing Committee

Xinping Li (Chairman) - Shaanxi University of Science & Technology, China
Bin Lyu (Executive Chairman) - Shaanxi University of Science & Technology, China
Xiangyu You - Shaanxi University of Science & Technology, China
Qing Luo - Shaanxi University of Science & Technology, China
Chao Duan - Shaanxi University of Science & Technology, China
Shunxi Song-- Shaanxi University of Science & Technology, China
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Jiaqi Guo - Nanjing Forestry University, China
Yu Liu - Qilu University of Technology, China
Douyong Min - Guangxi University, Nanning, China

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感谢以下公司的大力赞助：



General Conference Information

1.Registration

Date	Time	location
April 26th (Wednesday)	14:00-21:00	COURTYARD BY MARRIOTT (3F)
April 27th (Thursday)	08:00-12:00	COURTYARD BY MARRIOTT (6F)

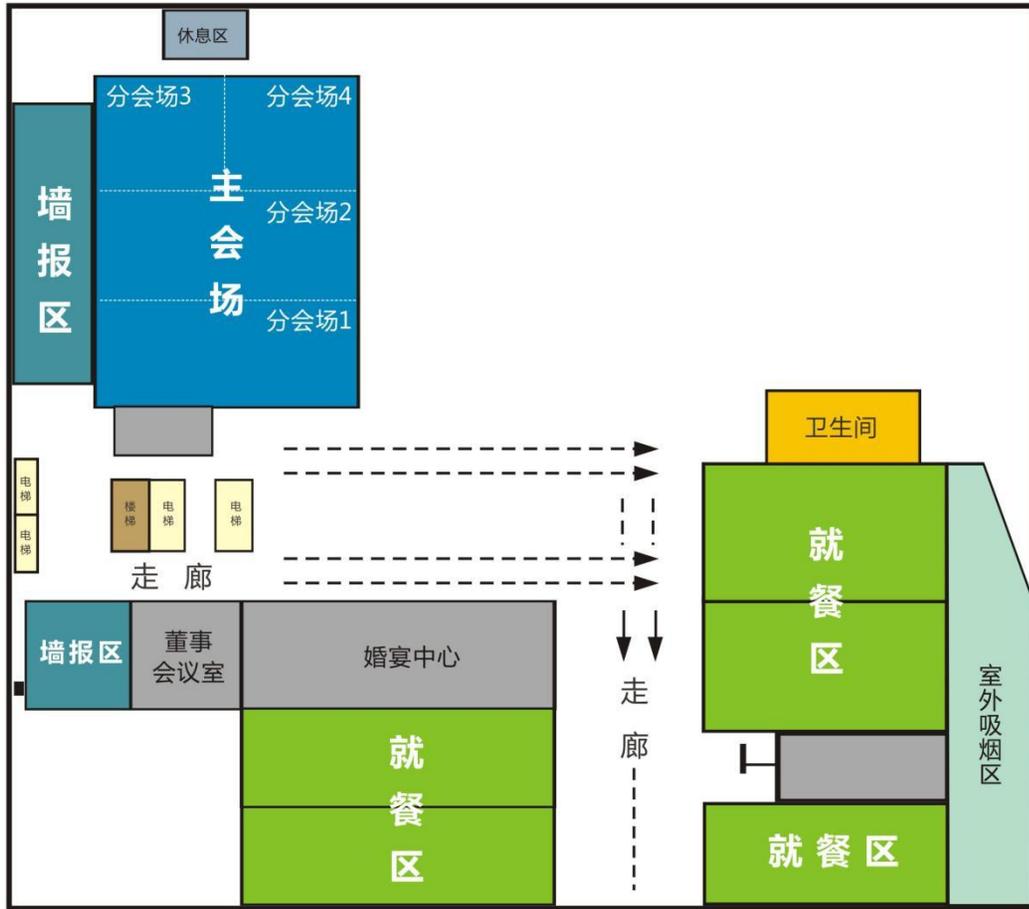
Note: Dinner on April 26th is at 18:00-19:30 in PAVILION ALL DAY DINNING (5F).

2.Time Table

Date	Item	Time	location
April 27th (Thursday)	Opening Ceremony	08:30-09:00	Grand Ballroom
	Symposium	09:00-10:10	Grand Ballroom
	Tea/Coffee Break	10:10-10:30	Entrance to the Grand Ballroom
	Symposium	10:30-12:15	Grand Ballroom
	Lunch	12:15-13:30	PAVILION ALL DAY DINNING Meeting Room & Function Room
	Symposium	14:00-15:10	Grand Ballroom
	Poster Presentation 1 & Tea/Coffee Break	15:10-16:00	Entrance to the Grand Ballroom Meeting Room 1
	Symposium	16:00-17:25	Grand Ballroom
	Conference Banquet	18:30-20:00	Grand Ballroom
April 28th (Friday)	Symposium	08:30-09:40	Grand Ballroom
	Poster Presentation 2 & Tea/Coffee Break	09:40-10:30	Entrance to the Grand Ballroom Meeting Room 1
	Symposium	10:30-12:10	Grand Ballroom
	Lunch	12:10-13:30	PAVILION ALL DAY DINNING Meeting Room & Function Room
	Symposium	14:00-15:10	Grand Ballroom
	Tea/Coffee Break	15:10-15:30	Entrance to the Grand Ballroom
	Symposium	15:30-16:40	Grand Ballroom
	Closing Ceremony	16:40-17:10	Grand Ballroom

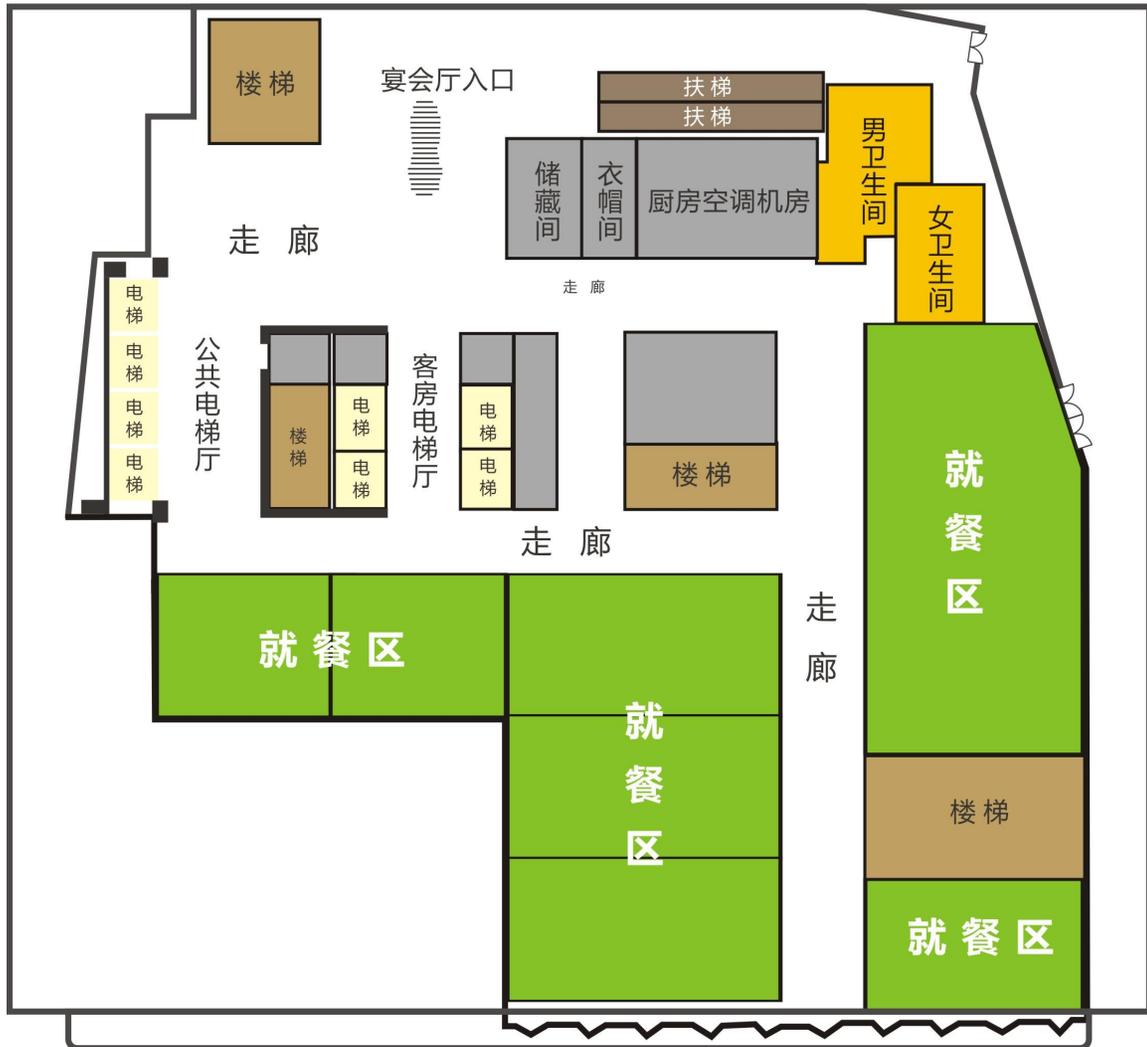
Planar graph of the Conference Hall

六楼平面图



- 会场
- 就餐区
- 墙报区
- 卫生间
- 电梯

五楼平面图



就餐区 卫生间 电梯

COURTYARD BY MARRIOTT

Address: 37 Fengcheng 2nd Road, Weiyang District, Xi 'an, China

1. From airport to the hotel:

Metro Line 14 & Line 2 (Get on at the airport station, change to Line 2 at Xi'an north railway station, and get off at municipal library station)

2. From Xi'an north railway station to the hotel:

Metro Line 2 (Get on at the Xi'an north railway station and get off at municipal library station)

3. From Xi'an railway station to the hotel:

Metro Line 4 & Line 2 (Get on at the Xi'an railway station, change to Line 2 at central administrative station, and get off at municipal library station)



**International Symposium on Biorefining, Papermaking, and Lignocellulosic
Materials (ISBPLM) Xi'an, China
(April 27-28, 2023)**

Main Symposium	
April 27, 2023, Thursday Morning Sessions	
08:30-09:00	Opening Ceremony (Conference Hall)
Plenary Speech, Session 1 (Conference Hall) Chairman:	
09:00-09:35	Scientific and technological innovation: Achieving carbon emission reduction in pulp and paper industry
	Kefu Chen South China University of Technology
09:35-10:10	Dissolving pulp fundamentals and its derived high-quality regenerated cellulose fibers
	Yonghao Ni University of Maine, US (Local time: April 26, 2023, 21:35-22:10)
10:10-10:30	Tea/Coffee Break
Plenary Speech, Session 2 (Conference Hall) Chairman:	
10:30-11:05	Lightweight materials based on nanopolysaccharides
	Orlando Rojas The University of British Columbia (Local time: April 26, 2023, 19:30-20:05)
11:05-11:40	Toward Sustainable Fractionation of Woody Biomass for Forest Biorefinery: Biofuels, Biochemicals, and Biomaterials
	Junyong Zhu USDA Forest Service, Forest Products Laboratory (Local time: April 26, 2023, 22:05-22:40)
11:40-12:15	Effective biomass fractionation and lignin stabilization using a diol DES system
	Guigan Fang Institute of Chemical Industry of Forest Products, Chinese Academy of Forestry
12:15-13:30	Lunch

Room 1: April 27, 2023, Thursday Afternoon Sessions	
Session 1 Chairman:	
14:00-14:25 (Invited Speaker)	Fabrication and Application of Cellulose-based Functional Materials Feng Xu Beijing Forestry University
14:25-14:40	Catalytic Transformation of Lignin into Chemicals, Fuels and Materials Guoyong Song Beijing Forestry University
14:40-14:55	Highly Efficient Pretreatment for Conversion and Valorization of Lignocellulosic Biomass Wei Liu Tianjin University of Science & Technology
14:55-15:10	Selective separation mechanism of lignin using p-toluenesulfonic acid treatment Yadan Luo Guangxi University
15:10-16:00	Poster Presentation 1 & Tea/Coffee Break
Session 2 Chairman:	
16:00-16:25 (Invited Speaker)	Research and Industrial Application of High Performance Aramid Mica Paper Zhaoqing Lu Shaanxi University of Science and Technology
16:25-16:40	A novel three-constituent deep eutectic solvent pretreatment for enhanced enzymatic hydrolysis of poplar residues Xuelian Zhou Nanjing Forestry University
16:40-16:55	Design and Construction of Lignocellulosic Biomass-based Dynamic Self-adaptive Plastic Replacement Materials Zhiping Su Sichuan Agricultural University
16:55-17:10	Natural polysaccharide-based intelligent packaging materials Yaxuan Wang Tianjin University of Science and Technology
17:10-17:25	Preparation of Bio-oil by Zeolite-catalyzed Pyrolysis of Lignin and Its Molecular Size Distribution Characteristics Qiuxia Zou Fujian Agriculture and Forestry University
18:30-20:00	Conference Banquet

Room 2: April 27, 2023, Thursday Afternoon Sessions	
Session 1 Chairman:	
14:00-14:25 (Invited Speaker)	The refinery of cellulose for green and sustainable functional materials Hai-Peng Yu Northeast Forestry University
14:25-14:40	Lightweight carbon aerogels from nancellulose for flexible pressure sensing Linxin Zhong South China University of Technology
14:40-14:55	Multidimensional Nanofiber-Based Sensors for Wearable Applications Bin Yang Shaanxi University of Science & Technology
14:55-15:10	Contribution of lignin in esterified lignocellulose nanofibers (LCNFs) to the interfacial compatibility of LCNF/PLA composites for 3D printing application Qing Zhang Nanjing Forestry University
15:10-16:00	Poster Presentation 1 & Tea/Coffee Break
Session 2 Chairman:	
16:00-16:25 (Invited Speaker)	Biomass conversion to fuels, chemicals, and materials Qiang Wang Qilu University of Technology
16:25-16:40	Application of biomass materials in the field of supercapacitors Chuanyin Xiong Shaanxi University of Science & Technology
16:40-16:55	Carboxymethylated nanocellulose-based gel polymer electrolyte with a high lithium ion transfer number for flexible lithium-ion batteries application Wei Li Guangxi university
16:55-17:10	Cellulose ionogel with high mechanical strength and ionic conductivity Jianguo Li Fujian Agriculture and Forestry University
17:10-17:25	Cellulose-based triboelectric nanogenerators for water harvesting and energy generation Song Zhang Guangxi university
18:30-20:00	Conference Banquet

Room 3: April 27, 2023, Thursday Afternoon Sessions	
Session 1 Chairman:	
14:00-14:25 (Invited Speaker)	Sustainable Wood-Nanostructured Hybrid for Efficient Flame Retarding and Electromagnetic Shielding Shiyu Fu South China University of Technology
14:25-14:40	Lignin-based Functional Materials and Its Application in Organic Photoelectronic Devices Hui-Chao Hu Fujian Agriculture and Forestry University
14:40-14:55	Metal-free oxidized carbon nitride for efficient sunlight-driven photocleavage of lignin β -O-4 bond Xiang Li Institute of Chemical Industry of Forest Products, Chinese Academy of Forestry
14:55-15:10	Upgradation of lignocellulose to value-added biofuel via in-situ lignin protection enabled by ternary deep eutectic solvent pretreatment Jinyu Tan Guizhou University
15:10-16:00	Poster Presentation 1 & Tea/Coffee Break
Session 2 Chairman:	
16:00-16:25 (Invited Speaker)	Nanocellulose and Cellulose-based Functional Materials: Morphology, Re-dispersibility, Antibacterial Performance Yongjian Xu Shaanxi University of Science and Technology
16:25-16:40	From pulp fibers to functional pulp foams Bin Li Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences
16:40-16:55	Polymerization of Lignin from Pre-hydrolysis Liquor by Laccase and Furfural Production Haitang Liu Tianjin University of Science & Technology
16:55-17:10	Energy input on the dissociation of tissues, cells and the depolymerization of chemical components and their control of naked oat stem in a pure subcritical water autohydrolysis Jiahui Wei Nanjing Forestry University
17:10-17:25	Metal-organic framework derived copper catalysts for efficient hydrogenolysis of lignin into monomeric phenols Qiang Wang Dalian Polytechnic University
18:30-20:00	Conference Banquet

Room 4: April 27, 2023, Thursday Afternoon Sessions	
Session 1 Chairman:	
14:00-14:25 (Invited Speaker)	Hemicellulose: New Key Players for Bio-based Nanomaterials Feng Peng Beijing Forestry University
14:25-14:40	Applications of xylan based on its crystallization properties Zhouyang Xiang South China University of Technology
14:40-14:55	Wastewater zero discharge treatment technology of chemical-mechanical pulping Jun Xu South China University of Technology
14:55-15:10	Ultrafast process of microwave-assisted deep eutectic solvent to improve properties of bamboo dissolving pulp Chaochao Tian Shaanxi University of Science & Technology
15:10-16:00	Poster Presentation 1 & Tea/Coffee Break
Session 2 Chairman:	
16:00-16:25	Construction and performance of natural polymer composite hydrogels Sufeng Zhang Shaanxi University of Science and Technology
16:25-16:40	Cellulose paper/nanopaper-based functional materials Wenxia Liu Qilu University of Technology
16:40-16:55	Cesium Lead Halide Nanocrystals based Flexible X-Ray Imaging Screen and Visible Dose Rate Indication on Paper Substrate Zhiwen Jin Lanzhou University
16:55-17:10	Multifunctional Self-assembled Structures from Esterified Cellulose Nanocrystals Yonggui Wang Northeast Forestry University
17:10-17:25	Application and mechanism of iron mud to delay calcification of anaerobic granular sludge from high-calcium wastewater Ming Wu Tianjin University of Science & Technology
18:30-20:00	Conference Banquet

Room 1: April 28, 2023, Friday, Morning Sessions	
Session 3 Chairman:	
8:30-8:55 (Invited Speaker)	Tissue Softness Improvement Strategies and Applications Hongbin Liu Tianjin University of Science and Technology
8:55-9:10	Paper-mill by-product hemicelluloses that glows in the dark for advanced data encryption and anti-counterfeiting Baozhong Lü Beijing Forestry University
9:10-9:25	Super tough lignin hydrogels from Kraft lignin Xuelian Wang Shaanxi University of Science & Technology
9:25-9:40	Interaction of lignin and xylan on the hydrothermal synthesis of carbon quantum dots and their application in vivo imaging Siyu Zhao Guangxi University
9:40-10:30	Poster Presentation 2 & Tea/Coffee Break
Session 4 Chairman:	
10:30-10:55 (Invited Speaker)	Design and construction of lignocellulose-based electrodes and electrolyte materials toward advanced energy devices Xinwen Peng South China University of Technology
10:55-11:10	Depolymerization of condensed lignin into small phenolics and their applications Li Shuai Fujian Agriculture and Forestry University
11:10-11:25	Biomass Valorization via Photo/Bio-processing Jinguang Hu University of Calgary
11:20-11:40	Lignocellulosic biomass derived high quality carbon fiber and functional nanofiber Qiang Li Huazhong Agricultural University
11:40-11:55	Retardation of calcium transportation inside anaerobic granule sludge: Ca ²⁺ diffusion regulation by bulk pH and phosphate Jian Zhang Guangxi University
11:55-12:10	Hydrothermal method-assisted synthesis of self-crosslinked all-lignin-based hydrogels with controllable mechanical properties Yong Zheng Tianjin University of Science & Technology
12:10-13:30	Lunch

Room 2: April 28, 2023, Friday, Morning Sessions	
Session 3 Chairman:	
8:30-8:55 (Invited Speaker)	Construction of efficient enzymatic hydrolysis system based on understanding of lignin-cellulase interaction Yongcan Jin Nanjing Forestry University
8:55-9:10	Modification and characterization of hydrophobic and oleophobic nanocellulose with fluorine-free Yinchao Xu Zhejiang University of Science and Technology
9:10-9:25	Fabrication of tannin-based hydroxyl-rich, uniform and size-controllable nanospheres as carriers for silver nanoparticles Shuo Zhang Qilu University of Technology
9:25-9:40	Anionic clusters enhancing the unidirectional alignment of redispersed nanocellulose Huihui Wang South China University of Technology
9:40-10:30	Poster Presentation 2 & Tea/Coffee Break
Session 4 Chairman:	
10:30-10:55 (Invited Speaker)	The production of nanocellulose from hemp to use as raw material for making bioplastic film Nucharin Luangsa-Ard King Mongkut's University of Technology Thonburi (Local time: April 28, 2023, 11:30-11:55)
10:55-11:10	Construction of Peroxidase Nanozyme from Industrial Lignin for Industrial Applications Xueming Zhang Beijing Forestry University
11:10-11:25	Multiphase Systems Stabilized by Nanocelluloses with Multiple Applications Long Bai Northeast Forestry University
11:20-11:40	The construction of polysaccharide-based fluorescent materials and their bio-imaging application Keyin Liu Qilu university of Technology
11:40-11:55	Multifunctional cellulose-based materials for EMI shielding and microwave absorbing applications Meng Zhu Shaanxi University of Science & Technology
11:55-12:10	Self-healing hydrogel dressings based on carboxymethyl chitosan, cellulose nanofibers and cellulose nanocrystals for wound healing Anshan Huang Qilu University of Technology
12:10-13:30	Lunch

Room 3: April 28, 2023, Friday, Morning Sessions	
Session 3 Chairman:	
8:30-8:55 (Invited Speaker)	Solvents effect on components fractionation for integrated dissolving pulp biorefinery of lignocellulose biomass Junli Ren South China University of Technology
8:55-9:10	Structural analysis, efficient dissociation, precise conversion and utilization of lignin Jia-Long Wen Beijing Forestry University
9:10-9:25	All-nature lignin-containing bioplastic based on corncob and wheat straw Shixu Yu Hubei University of Technology
9:25-9:40	Top-Down Approach Fabricating Anisotropic Cellulose Based Hygroscopic Aerogels for Water Capturing Material Xiaotong Fu Jiangnan University
9:40-10:30	Poster Presentation 2 & Tea/Coffee Break
Session 4 Chairman:	
10:30-10:55 (Invited Speaker)	Importance of hemicelluloses for lignification Yasumitsu Uraki Hokkaido University (Local time: April 28, 2023, 9:30-9:55)
10:55-11:10	An new biopulping strategy for energy saving and pulp quality improving based on aerobic fermentation pretreatment coupled with high-consistency mechanical refining Kuizhong Shen Institute of Chemical Industry of Forest Products, Chinese Academy of Forestry
11:10-11:25	Research on the Preparation and Properties of Water and Oil Resistance of Pulp Molding Packaging Materials Fei Cao Tianjin Vocational Institute
11:20-11:40	Application of modified sepiolite formaldehyde adsorbent in containerboard paper Yan-Na Lv Dalian Polytechnic University
11:40-11:55	Quaternary ammonium modified lignin enhancing cationic dispersion rosin for improved performance of liquid packaging board Min Guan Tianjin University of Science & Technology
11:55-12:10	Modeling of Papermaking Wastewater Treatment Processes Using Boosting Framework Jinyong Wang Nanjing Forestry University
12:10-13:30	Lunch

Room 4: April 28, 2023, Friday, Morning Sessions	
Session 3 Chairman:	
8:30-8:55 (Invited Speaker)	Technologies to Improve the Strength Properties of Tissue Paper without Losing the Bulk and Softness Zhibin He University of New Brunswick
8:55-9:10	Preparation, Regulation and Functional Application of Lignocellulosic Nanofibrils Huiyang Bian Nanjing Forestry University
9:10-9:25	How London dispersion and hydrogen bond interactions double the chain stiffness of cellulose Pan Chen Beijing Institute of Technology
9:40-10:30	Poster Presentation 2 & Tea/Coffee Break
Session 4 Chairman:	
10:30-10:55 (Invited Speaker)	Paper-Based Flexible Electronics for Health Applications Haidong Yu Northwestern Polytechnical University
10:55-11:10	Nanocatalysts induced self-triggering leather skin for human-machine interaction Yong-Mei Chen Shaanxi University of Science & Technology
11:10-11:25	Bamboo-inspired cell-scale assembly for energy device applications Yuxiang Huang Research Institute of Wood Industry, Chinese Academy of Forestry
11:25-11:40	Paper-based flexible materials and sensors Hanbin Liu Shaanxi University of Science & Technology
11:40-11:55	Plant-based Multifunctional Hydrogels for Zinc-ion Hybrid Capacitors Yang Wang Qilu University of Technology
11:55-12:10	Superhydrophobic cellulose-based triboelectric nanogenerator for liquid energy harvesting Bin Luo Guangxi University
12:10-13:30	Lunch

April 28, 2023, Friday, Afternoon Sessions	
Plenary Speech, Session 1 (Conference Hall) Chairman:	
14:00-14:35	Oxidations in cellulose chemistry: reaction mechanisms, pitfalls and analytical aspects
	Thomas Rosenau University of Natural Resources and Life Sciences Vienna (BOKU) (Local time: April 28, 2023, 8:00-8:35)
14:35-15:10	Structure and properties of cellulose microfibrils related to pulping and paper formation
	Yoshiharu Nishiyama French Centre National de la Recherche Scientifique (CNRS)
15:10-15:30	Tea/Coffee Break
Plenary Speech, Session 2 (Conference Hall) Chairman:	
15:30-16:05	Tailor-modified cellulose and nanoparticles as functional materials
	Huining Xiao University of New Brunswick
16:05-16:40	Lignin Derived Biomaterials
	Runcang Sun Dalian Polytechnic University
16:40-17:10	Closing Ceremony (Conference Hall)

Poster Presentation

- **The ID numbers are the manuscript numbers we have been contacting with you. They are also the poster numbers you should find at the poster sites when you come to the symposium.**
- **The posters presented on April 27th should be put up before 14:00, and those presented on April 28th should be put up before 18:30, April 27th.**

Poster Presentation 1: 15:10-16:00, April 27th			
No.	ID	Title	Author Name
A-Plant fiber chemistry and new analytical methods			
1	A0046	Prediction of holocellulose and lignin content of pulp wood feedstock using near infrared spectroscopy and variable selection	Long Liang, Guigan Fang
2	A0072	Optimization of Mechanical Properties of Recycled Fiber based Molding Materials with ABAQUS	Wenfang Dou, Zehua Liu
3	A0083	Rapid dissolution of cellulose in AlCl ₃ /ZnCl ₂ aqueous system at room temperature and its versatile adaptability in functional materials	Lili Zhang, Zhiguo Wang, Jinxia Ma
4	A0148	A Strategy to Encapsulate Toxic Insecticides into Smart Microspheres to Ensure Human Safety	Pengbing Chang, Bin He, Xing Zhu, Sufeng Zhang
5	A0157	Preparation and quantification of lignin-carbohydrate complex from prehydrolysis liquor of Masson pine	Shaowen She, Fei Tang, Xiangdong Zhao, Nianjie Feng
6	A0182	Luminescent Transparent Wood Film Loaded by Graphite Carbon Nitride for Implication of Photoelectric Device	Yin Xuefeng
7	A0211	Visualization of Lignification in Plant Cell Walls with the Click-Compatible Monolignol Analogs in Flax Stems	Yuhang Zhang
8	A0250	Study on enhancement of paper strength by benzyl ester bonds formed between pulp fibers and DHP	Wenhao Liu, Xi Le, Junjian An, Guangyan Zhang, Peng Wang, Yimin Xie
9	A0278	Effects of cell wall polysaccharides on dehydrogenative polymer formation catalyzed by cationic cell wall-bound peroxidase	Yan Lyu
10	A0289	Study on alkynyl labeled glycoside lignin dehydrogenation polymer	Junxia Yuan

11	A0290	Study of alkyne-labeled lignin precursors in plant cell wall lignification process	Rui Wang, Yuhang Zhang, Junxia Yuan, Zhishang Ye, Haitao Yang
12	A0302	Study on thermal condensation reaction mechanism of dehydrogenation polymer catalyzed with acetic acid	Rui Luo, Xiong Wang, Junjian An, Guangyan Zhang, Peng Wang, Yimin Xie
13	A0328	Molecular Dynamics Analysis of the effect of choline-based DESs on hydrogen bond Network of Cellulose nanofibrils	Qinghui Chen, Chaojun Wu
14	A0335	Alkynyl labeled glycoside lignin dehydrogenation polymer	Junxia Yuan, Haitao Yang
15	A0337	Uncovering the heterogeneous structures of native lignin from bamboo cell walls via an improved lignin isolating method	Cheng-Ye Ma, Jia-Long Wen
16	A0341	Accurate Prediction of Cellulose Properties with Machine Learning Techniques	PADONOU Kengue PATRICK DORSEL, Chaojun Wu
17	A0349	Dynamic structural evolution of lignin macromolecules and hemicelluloses during Chinese pine growth	Qian Sun, Tong-Qi Yuan
18	A0405	Effects of organic solvent extraction on structure and antioxidant activity of Eucalyptus Kraft Lignin	Moyan Li
19	A0414	Regulation of sodium ion on the cellulose lattice and its influence on its electrical properties	Xin Wang, Xinliang Liu
20	A0415	Properties and functionalization of Cu(II) nanocellulose materials	Pinle Zhang, Xinliang Liu
21	A0416	BaTiO ₃ -CuO _x ultrasonic piezo-electrocatalytic reduction of CO ₂ to C ²⁺ products and its piezocatalytic mechanism	Kuan Cai, Xinliang Liu
22	A0418	Preparation of Carbon Dots from Waste Biomass and Their Fluorescent Properties Study	Tian-Xiang Li, De-Fang Zhao, Lin Li, Yu-Hui Xie, Feng Wu, Delong Xie
23	A0419	Lignin removal and amination by mild and recyclable ethylenediamine pretreatment and its use in the polyurethane foam	Bin Xu, Cheng Zhong, Wen-Chao Li
B-Pulping and bleaching chemistry, high yield pulping, fiber recycling and non-wood pulping			
24	B0056	A new pulping process using deep eutectic solvents instead of typical cooking agents	Kuizhong Shen

25	B0069	Thermally drying-induced pore expansion effects of cellulosic fibers and its applications	Wenxuan Mo, Kefu Chen, Bo Li, Fangong Kong
26	B0099	The efficient removal of new microstickies in white water from ONP under the background of China's waste import ban	Yuting Xu, Bo Li, Wenxuan Mo, Kunrui Xu
27	B0185	A strong, water-stable paper produced by nitric acid-hydrogen peroxide pulping	Tengteng Dong, Wei Chen, Feitian Bai, Chenchen Cai, Zheng Zhou, Xusheng Li
28	B0204	The characteristics of different hemicellulose fraction of alkaline extractive from eucalyptus kraft pulp	Min Luo, Yu Shi Fu
29	B0228	Improving mechanical strength and water barrier properties of pulp molded product by wet-end added polyamide epichlorohydrin/cationic starch	Jing Li
30	B0299	Strong yet tough transparent paper with superb foldability	Yujie Li, Zhiqiang Fang, Yu Liu
31	B0300	Superior separation of hemicellulose-derived sugars from eucalyptus with tropic acid pretreatment	Yuqi Bao
32	B0317	Effect of addition of choline chloride /Urea in alkaline extraction stage on pentosan content of softwood dissolving pulp	Lanhao Zhang
33	B0393	Simulation on atomization characteristics of bamboo pulping black liquor with high solids content	Yiwei Wang, Yongjian Xu
34	B0394	Effects of extracted-lignin from black liquor on the rheological characteristics and combustion performance of black liquor	Kangkang Guo, Yongjian Xu
C-Papermaking chemistry and engineering, finishing, coating, and converting			
35	C0008	Preparation of softwood chemical pulp/basalt scales paper based materials and their sound absorption and thermal insulation properties	Junfan Zhao, Shunxi Song
36	C0017	Tissue softness and towel water absorption improvement strategies	Hongbin Liu
37	C0022	Dissolvable sugar barriers to enhance the sensitivity of nitrocellulose membrane lateral flow assay for COVID-19 nucleic acid	Mingyue Xie, Ruihua Tang
38	C0030	Ultrasound-assisted enzyme pretreatment for improvement of hydrolysis of tobacco shreds	Mengxing Zhao, Hongbin Liu

39	C0078	Polydopamine modifying cellulose nanocrystals (CNC) for efficient immobilization of cellulase to improve fiber flexibility of bamboo kraft pulp	Tong Qin, Hongbin Liu
40	C0082	Study on the improvement of water absorption performance of kitchen towel	Zhipeng Zhang, Hongbin Liu
41	C0085	Research on the Degradation Law of Starch in OCC Slurry System	Jinhuan Guo, Hongbin Liu
42	C0106	Interface construction of superhydrophobic paper induced by starch based bio-latex based on the binder migration mechanism of "Marangoni effect"	Liqin Liu
43	C0125	Fabrication of BSA Surface Imprinted Polymers Based on MOF Composites for High-Performance Recognition	Yuxuan Yang, Tiantian Xu, Haonan Chen, Liwei Qian
44	C0146	Covalent Bond-enhanced Interfacial Combination Based on Thiol-ene Click Chemistry to Achieve Improved Thermal Conductivity of Aramid Nanofiber Composite Paper	Shanshan Chen, Fan Xie, Fengfeng Jia, Zhaoqing Lu
45	C0158	In situ loading Polypyrrole onto Aramid Nanofiber and Carbon Nanotube Aerogel fiber as Physiology and Motion Sensors	Jizhen Huang, Jiaoyang Li, Xiaoxu Xu, Zhaoqing Lu
46	C0194	Study on Preparation and Properties of Green Biological Coating	Miaomiao Zhou, Peiyi Li, Boxing Jian, Haozhe Lei, Ruiyan Liu, Xiping Li
47	C0303	Antibacterial paper is prepared with polyelectrolyte based on layer self-assembly technique	Jiao Li
48	C0307	Preparation and properties of a novel decorative base paper for formaldehyde-free adhesive impregnation	Min Liang, Ya Jing Gong, Feng Jian Xu, Ru Liu, Ling Long
49	C0318	Preparation of antibacterial bamboo pulp fibers based on selective oxidation and Schiff base reaction strategy	Lu Liu
50	C0353	Fiber swelling to improve cycle performance of paper-based separator for lithium-ion batteries application	Wei Li
51	C0367	Preparation and properties of ASA emulsions stabilized by guar gum and xanthan gum	Tongxin Zhou, Qian Han, Yantao Wang, Dehai Yu, Wenxia Liu, Huili Wang
52	C0369	Effect of molecular weight of polyethyleneimine (PEI) on PEI-KH560 for improving the strength properties of papers via surface sizing	Shuzhen Ni

53	C0402	Highly transparent RCF/PTFE humidity and IR light dual-driven actuator with high force density, sensitivity and stability	Li Yanan
D-Equipment and process control on pulping, papermaking, and biorefinery			
54	D0011	LSTM Predictor for Wastewater Treatment Processes Based on Generative Adversarial Imputation Network	Yun Geng, Hongbin Liu
55	D0012	Prediction of Quality in Papermaking Wastewater Treatment Processes Based on Temporal Convolutional Network and Long Short-Term Memory	Yifeng Lu, Hongbin Liu
56	D0013	Prediction of Effluent Quality in Papermaking Wastewater Treatment Processes Using Variational Auto-Encoder with Partial Least Squares	Qiyue Wu, Hongbin Liu
57	D0174	Investigation on the simultaneous loss of saccharides in the pre-hydrolysis liquor during an efficiently combined process towards lignin removal	Minjie Hou, Leiming Wang, Haiqiang Shi
58	D0373	Non-leaching antimicrobial PHGH-m-LNP used as an exceptional antibacterial agent of starch	Xinlu Liu, Shuzhen Ni, Xiaoqian Chen, Zongquan Li, Yingjuan Fu
E-Environmental issues in the pulp and paper industry			
59	E0006	Efficient removal of Acid Orange 7 by magnetic sludge-derived biochar activated peroxydisulfate: performance and mechanism	Hongtao Zhang, Xin Zhang, Jiawan Yang, Tao Liu, Zhenchang Wang, Peng Chen
60	E0041	Double-crosslinked carboxymethyl nanocellulose/TEMPO-oxidized nanocellulose as Cu ²⁺ adsorbent	Rongrong Si, Hanyu Wang, Chaojun Wu, Yehong Chen
61	E0053	Enhancing sludge anaerobic digestion to promote methane production by adding iron-loaded biochar	Zhen-Hu Yang, Ming Wu, Tong-Bao Jiang, Kai-Qing Wang, Kai-Li Wu, Qing-Xi Hou
62	E0059	ZnAl ₂ O ₄ /Bi ₂ MoO ₆ heterostructures with enhanced photocatalytic activity for organic pollutants and eucalyptus chemimechanical pulp wastewater treatment	Qingwen Tian
63	E0067	Application of lignin-carbon-metal oxide composite photocatalysis and black liquor treatment	Zhihao Tang
64	E0089	Energetic-environmental-economic assessment of syngas preparation from weak black liquor to replace evaporation based on coal water slurry gasification technology	Jiang Liu, Yang Wang, Yongjun Yin

65	E0114	A novel coumarin-modified cellulose-based fluorescent sensor for the rapid detection of hydrazine and its application in the environment analysis	Jiali Kou
66	E0115	A novel coumarin-modified cellulose-based fluorescent sensor for the rapid detection of hydrazine and its application in the environment analysis	Jiali Kou
67	E0122	Effects of different N-acyl-serine lactone signaling molecules on the performance of anaerobic granular sludge	Wenhao Dang
68	E0161	Preparation of RGO/ANFs composite aerogels and their electromagnetic shielding properties	Fan Xie
69	E0179	Study on Treatment of papermaking wastewater by activated carbon adsorption -Fenton oxidation	Tianhao Jing
70	E0212	Inhibition of methane production by mass transfer resistance of anaerobic granular sludge: the role of inert polymer adhesion	Shuai Liu, Jian Zhang
71	E0233	Application of porous graphite-like phase carbon nitride for the removal of 4-CP from aqueous solutions	Jinge Guo, Xinliang Liu
72	E0235	Vertical spatial heterogeneity of anaerobic granular sludge in calcified IC reactor	Ling Peng
73	E0237	By preparing MOFs with different pore sizes for highly selective adsorption of AOX	Xinliang Liu
74	E0249	Degradation of Soluble Lignin Model Compounds by Heterogeneous Fenton-like process	Junjian An
75	E0274	Insights into the microbial response of anaerobic granular sludge during long-term exposure to polyethylene terephthalate microplastics	Xiao Yang
76	E0295	Efficient removal of residual lignin from eucalyptus pulp via high-concentration chlorine dioxide treatment and its effect on the properties of residual solids	Huali Zeng
77	E0301	Degradation of lignin model pollutants with graphene oxide loaded Ionic sulfide composite as an efficient heterogeneous Fenton catalyst	Junjian An, Peng Wang
78	E0324	Study of pulp and paper industries	Wei Liu, Hai-Tao Yang
F-Nanotechnology, nanofiber and nanocellulose-based functional materials			
79	F0019	Promoting h-BN dispersion in cellulose-based composite by liginosulfonate for regulatable effectual thermal management	Xiu Wang, Mengya Sun, Huiyang Bian, Hongqi Dai

80	F0020	Construction of Cellulose Nanofibrils Composite Hydrogel for Controllable Drug Release	Yingying Liu, Chengrong Qin, Hongbin Liu
81	F0023	Preparation and characterization of lignin nanoparticles from pulping black liquor	Qiuxiao ZHU, Lianxin LUO
82	F0027	Preparation and stabilization of Pickering emulsions by cationic cellulose nanocrystals synthesized from deep eutectic solvent	Jin Wang, Dan Wang
83	F0031	Chitin nanocrystals as green carriers for improving the recycling of silver@lignosulfonate nanocatalyst and efficient removal of organic contaminants	Jian Yang, Hongbin Liu
84	F0032	Microporous carbon nanofibers derived from cellulose via molten-salt method as supercapacitor electrode	Yidan Zhong, Xiaofan Zhou
85	F0034	Insights into Structure and Properties of Cellulose nanofibrils (CNFs) Prepared by Screw Extrusion and Deep Eutectic Solvent Permeation	Ming Yan, Ting Wu, Lili Zhang, Hailong Lu, Xiaofan Zhou
86	F0038	Scalable Hierarchical Wood Mineralization by ZnO for Efficient Energy Conversion	Ying Gao, Farsa Ram, Jonas Garemark, Lars Berglund , Yuanyuan Li, Hongqi Dai
87	F0042	Green prepared TOCN /SA/MoS ₂ composite aerogel with Ca ²⁺ as the crosslinker for high performance flexible supercapacitors	Shuai Biao, Chao Jun Wu, Ye Hong Chen
88	F0057	Highly sensitive, flexible and transparent TiO ₂ /nanocellulose humidity sensor for respiration and skin monitoring	Yifan Chen, Wenhao Shen, Ju Wu
89	F0060	Lignin nanoparticles strengthening polyurethane film with additional function	Qiang Wang
90	F0063	Preparation and properties of novel antibacterial nanocomposites based on nanocellulose	En-Liang Zhao, Wen-Qian Jia, Yi-Fan Cai, Yan-Na Lv
91	F0064	Study on Preparation of Sulfhydryl Nanocellulose Aerogel and Its Adsorption to Dye	Tingting Su, Jinhui Li, Yanna Lv, Xinyao Huang
92	F0065	Screw extrusion pretreatment for high-yield lignocellulose nanofibrils production from wood biomass and non-wood biomass	Hailong Lu, Kui Wang, Jianchun Jiang
93	F0070	Polyaniline wrapped carbon fiber/cellulose nanofiber composites for use in high performance flexible supercapacitors	Ziyang Chang, Dingqiang Liang, Daliang Guo, Lizheng Sha, Huifang Zhao

94	F0073	Preparation of self-reinforced cellulose film via hydroxyl-yne click reaction	Bowen Li, Juan Yu, Yimin Fan
95	F0074	Strong Water-Resistant, UV-Blocking Cellulose/Glucomannan/Lignin Composite Films Inspired by Natural LCC Bonds	Lisha Ma, Lili Zhang, Zhiguo Wang
96	F0075	One-pot nanofibrillation, esterification and grafting of cellulose towards to 3D printable strong and tough composites with poly-dicyclopentadiene	Ma Ruoteng, Lili Zhang, Zhiguo Wang
97	F0076	3D-Printable flexible conductive materials based on “one - pot” nanofibrillation, modification of cellulose and polymerization in DES system	Shaoning Wang, Zhiguo Wang, Lili Zhang
98	F0077	Preparation of micro-nano lignocellulose fibers reinforced paper-based material	Yuefeng Huang, Zhiguo Wang, Lili Zhang
99	F0080	Lignin graphitic carbon layer enhanced electrochemical properties of ZIF-8-derived highly porous carbon nanoparticles for supercapacitors	Yin-Ying Long, Hong-Bin Liu
100	F0084	One-pot nanofibrillation and maleic anhydride modification of nanocellulose using deep eutectic solvent as a reaction medium	Xiya Zhang, Lili Zhang, Zhiguo Wang
101	F0086	Preparation of Lanthanide Metal Ions Doped Oxidized Cellulose Luminescent Film	Cao Hui, Liu Peng Tao
102	F0087	Grafting modification of TEMPO-oxidized cellulose nanofibrils via SI-ATRP: synthesis, properties, and mechanism studies	Chaoqun Xu, Juan Yu, Yimin Fan, Fuxiang Chu
103	F0092	The aqueous redispersion of nanocellulose with aid of sodium lignosulfonate	Tongtong Liu, Juan Yu, Yimin Fan
104	F0096	Double bond functionalized nanocellulose hydrogel via chemical vapor deposition	Jia Liu, Juan Yu, Yimin Fan
105	F0097	Highly-enhanced moisture resistant and oxygen barrier properties of cellulosic paper through covalently self-crosslinked PVA network for packaging applications	Yuqing Tan, Rongrong Liu, Qun Li
106	F0116	Super-hydrophobic Cellulose Nanofiber Air Filter with Highly Efficient Filtration and Humidity Resistance	Tao Liu, Chenchen Cai, Dengjun Lu, Shuangxi Nie
107	F0119	Paper-based functional materials designed with nanocellulosic composite hydrogel	Xiangju Xi, Lei Dai

108	F0127	In Situ Growth of Ag ₂ S Quantum Dots on Cellulose Nanocrystals for Biological Imaging	Youlu Chu, Shanshan Zhai, Sijie Li, Weibing Wu
109	F0131	Preparation of Aramid Nanofiber-Based Phase Change Films via Pickering Emulsion Method	Jiaojun Tan, Fangfang Li
110	F0141	An Integrative Cellulose-Based Composite Material with Controllable Structure and Properties for Solar-driven Water Evaporation	Xiaoyun Du, Jinbao Li, Simin Wang, Sha Fan, Dingwen Yin, Huijuan Xiu
111	F0143	Multi-stimuli-responsive photonics films based on chiral nematic cellulose nanocrystals	Yahui Meng, Zhu Long
112	F0145	Strong, tough and degradable cellulose nanofibers-based composite film by the dual crosslinking of polydopamine and iron ions	Doudou Ning, Songfeng E, Qin Ma, Ruixia Zhao, Fengfeng Jia, Zhaoqing Lu
113	F0151	Flame retarded CNF/sodium alginate compound aerogel fabricated through boric acid/Ca ²⁺ double cross-linking	Wenhuan Deng, Xiaopeng Yue
114	F0156	Preparation and UO ₂ ²⁺ detection performance of CNF@MOF composite fluorescence sensor	Yuqing Deng, Shanshan Zhai, Huining Xiao, Weibing Wu
115	F0159	High Strength Magnetic/Temperature Dual Responsive Hydrogels for Smart Actuators	Na Li, Yanbo Liang, Shaoyan Huang, Zili Deng, Jinbao Li
116	F0162	Electrochemical Performance of Nitrogen-doped Carbon Fiber Modified by Functionalized MnO ₂ Nanosheets	Xuxu Hu, Sufeng Zhang
117	F0164	ANF / ZnO to Improve UV Aging Resistance of Aramid Paper	Jianfei Liao
118	F0165	Sustainable, superfast deconstruction of natural cellulosic aggregates toward intrinsically green, multifunctional gel	Qunfeng Chen, Jianguo Li, Yonghao Ni
119	F0166	Preparation of porphyrins, metalloporphyrins and functionalized porphyrins graphene oxide cellulose nanocrystalline films and comparative study on their optical limiting properties	Zhang Zhao, Yang Boying, Li Xinping
120	F0175	Micro-porous MXene/Aramid Nanofibers Hybrid Aerogel with Reversible Compression and Efficient EMI Shielding Performance	Fengfeng Jia, Shanshan Chen, Doudou Ning, Yuanqing Liu, Zhaoqing Lu
121	F0177	Cellulose nanofibers assisted dispersion of boron nitride nanosheets	Ruixia Zhao, Songfeng E

122	F0178	Control of the triboelectric charge density of cellulose nanofibrils by chemically tailored molecular surface modification	Yanhua Liu, Shuangxi Nie
123	F0186	In-situ microstructure regulation towards self-reinforced lignocellulose nanopaper with multifunctionalities	Lin Zhou, Yan Jiang, Xiuyu Liu
124	F0187	Effect of Lignin Content on the Thermal Stability of Cellulose Nanofibers	Xuchong Wang
125	F0188	Enhanced mechanical, water vapor barrier and UV-shielding properties of CMC films with dodecahedral-like zeolitic imidazolate framework nanoparticles	Jiayi Yue, Jian Du, Haisong Wang
126	F0192	Aramid nanofiber aerogel-based Triboelectric Nanogenerator for enhanced output at high temperatures	Mingchao Chi, Shuangfei Wang, Shuangxi Nie
127	F0197	Significantly improved insulation and mechanical performance of meta-aramid paper via coating methods	Juan Wu
128	F0202	Preparation and mechanical properties of aramid nanofiber/silk composite films	Bo Geng, Songfeng E, Qin Ma, Doudou Ning, Ruixia Zhao, Cuiyu Tian, Zhaoqing Lu
129	F0205	Highly Sensitive Self-powered Pressure Sensors over a Wide Pressure Range Enabled by Tailoring Free Volume of Cellulosic Triboelectric Materials	Jinlong Wang, Shuangxi Nie
130	F0206	Injectable and self-healing cellulose nanofiber reinforced alginate hydrogel scaffolds for bone tissue engineering	Shuyuan Cui, Sufeng Zhang
131	F0207	Basalt Scale/Cellulose nanofibril Composite Aerogel with Enhanced Sound and Thermal Insulation Performance	Baolong Yuan
132	F0210	Cellulose nanofibers derived hierarchically porous carbon aerogel for oxygen reduction electrocatalysis	Mengxia Shen
133	F0214	Self-Assembly of Circularly Polarized Luminescent Films Based on Cellulose Nanocrystals for Photonic Applications	Tao Lin, Heng-Li Du, Xue-Feng Yin, Xiao-Yao Wei, Le Wang
134	F0215	Cellulose nanocrystals assemble into tough fiber filaments by continuous flow focusing	Yuda Wang, Jiabao Wang, Xinliang Liu
135	F0217	Effect of cellulose nanocrystals-loaded Ginger essential oil emulsions on the physicochemical properties of mung bean starch composite films	Qijie Chen, Na You
136	F0218	Polyethyleneimine grafted H ₂ O ₂ -oxidized starch nanocrystals as a biomaterial for adsorptive removal of Cr(VI)	Qijie Chen, Yalan Zhao

137	F0219	High-flux bacterial cellulose ultrafiltration membrane with controllable pore structure	Jianfeng Xi, Liucheng Meng, Youlu Chu, Weibing Wu
138	F0223	Ultralight bio-based aerogel with excellent cyclic oil absorption	Yan Sun, Jie Wen Ye, Cheng Liu Meng, Wei Bin Wu
139	F0226	Green Approach to Facilely Design Hydrophobic Aerogel Directly from Bagasse	Zerong Li, Wei Wang, Wei Li
140	F0229	The effect of phenolic hydroxyl groups during the contact electrification of lignin-based triboelectric nanogenerators	Cong Gao, Bin Luo, Chenchen Cai, Shuangxi Nie
141	F0232	Design of high-performance fluorescent probe-based test strips for hydrogensulfite detection by chemical grafting	Wei Lu
142	F0234	Mil-53(Al) functionalized lignocellulose aerogel for thermal insulation and fire protection of energy-efficiency building	Qiaoling Huang Huang, Zerong Li Li, Wei Li Li, Wei Wang Wang
143	F0236	Effect of a Trace Amount of Deep Eutectic Solvents on structure and optical properties of Cellulose Nanocrystal Films	Xiaoyao Wei, Tao Lin
144	F0238	A nanofiber-based multifunctional in-situ hydrogel with self-adaptive shape for the treatment of postoperative infectious wounds	Rimei Chen, Hui He
145	F0239	Magnetic thermosensitive perfusion cellulose nanofibers-based hydrogel for controlled drug target release	Die Dong, Hui He
146	F0240	Preparation of magnetic lignin micro/nano sphere and its application in the adsorption of organic dyes	Qiu Supeng Qiu Supeng
147	F0241	Cellulose nanocrystal-based in-situ hydrogel for ROS detection and treatment of infectious wounds	Yupei Sun, Hui He
148	F0244	Preparation and characterization of carbon fiber paper for PEMFC	Zhiqi Kong, Daliang Guo
149	F0248	Cellulose acetate-based ordered porous nanofibrous membranes for directional moisture transport and moist-induced electricity generation	Ting Chen, Xue Jiang
150	F0251	Construction and properties regulation of biomass-derived carbon materials for energy devices and wearable sensors	Zehong Chen, Linxin Zhong, Xinwen Peng
151	F0256	3D structure modeling and performance simulation study of paper sheet visualized by scanning electron microscope diagram based on carbon paper base paper for fuel cell	Meng Zhang, Daliang Guo

152	F0258	Preparation and Functional Design of Polyethyleneimine Reinforced Nanocellulose-based Aerogel	Jiacheng Lin, Tao Lin
153	F0261	Cellulose-based actuators with high transparency, force density and sensitivity	Li Yinan
154	F0263	Cellulose acetate-based ordered porous nanofibrous membranes for directional moisture transport and moist-induced electricity generation	Xue Jiang, Ting Chen
155	F0264	Nanoscale cellulose composite aerogels embedded with N-doped graphene quantum dots for electrode material of high performance supercapacitors	Xue Cai
156	F0265	Preparation and properties of hardwood pulp/modified polylactic acid fiber composite paper	Xue Jiang, Ce Sun
157	F0268	Study on structure regulation and thermal insulation performance of aramid nanofiber aerogel	Tianyi Wang, Yuying Ma, Wei Wang, Wei Zhao, Kai Ding, Shuo Yang, Bowen Cheng
158	F0269	Fabrication of ultrafiltration membranes by cellulose dissolution and regeneration assisted by ultrasonication	Xinyu Cao, Zhijun Hu, Guanhong Huang, Quanzin Liu, Yuchen Cao
159	F0270	Flexible humidity sensor based on multidimensional TiO ₂ /cellulose nanocrystal at room temperature with theoretical DFT calculations	Xin Tong, Hong Wang, Xuejin Zhang
160	F0276	The modulation of the photonic band of cholesteric cellulose liquid crystals	Zhuo Chen, Yu-Xia Luo, Qing Han

Poster Presentation 2: 9:40-10:30, April 28th			
No.	ID	Title	Author Name
161	F0277	Sustainable Wood-Nanostructured Hybrid for Efficient Flame Retarding and Electromagnetic Shielding	Shiyu Fu
162	F0280	Stretchable Triboelectric Self-Powered Sweat Sensor Fabricated from Self-Healing Nanocellulose Hydrogels	Ying Qin, Shuangfei Wang, Shuangxi Nie
163	F0285	Facile preparation of multifunctional bamboo with superhydrophobic, conductive, and flame-retardant properties	Qi Gao, Wenji Yu
164	F0286	Adsorption of heavy metals by carbon dots-doped nanocellulose based fluorescent adsorbent	Hanyu Wang, Yehong Chen, Chaojun Wu
165	F0292	Ion-molecular engineered negative-thermopower cellulose ionogel overcoming the trade-off of mechanical strength and ionic conductivity	Jianguo Li
166	F0298	Synthesis of Covalent Organic Frameworks (COFs)-nanocellu- 2 lose composite and its thermal degradation studied by TGA/FTIR	Chunxia Zhu
167	F0306	Visible nanocellulose-based aerogel formaldehyde adsorbent	Xipeng Zhang, Dan Huo
168	F0308	Preparation of nanocellulose materials based on ionic liquid modification	Jiarui Liang
169	F0311	Facile preparation, properties and adsorption kinetics of nano/micro-fibrils films reinforced by hemicellulose	Mingzhu Yao, Shuangquan Yao, Chengrong Qin
170	F0312	Preparation of nano LCNF/PLA composite film based on simultaneous modification	Zhang Qiang, Huo Dan
171	F0323	The Influence of Medium System on the Deposition Behavior of Hemicellulose on Microfiber Surface was Analyzed by QCM	Jinwei Zhao, Liang Chen
172	F0325	Construction of biomass-based emulsion system and its application in 3D printing	Siqi Huan
173	F0330	Fabrication of nanocellulose-tannin composite hydrogels via metal-ligand complexation	Min Li, Lukuan Guo, Juman Qin, Jinzhao Ma, Qinghua Xu
174	F0332	Dispersing boron nitride with carboxymethylated cellulose nanofibrils for strong, water-resistant, and thermally conductive nanocomposite films	Kaihuang Chen, Liyuan Peng, Zhiqiang Fang, Xiaoqi Lin, Chuan Sun, Xueqing Qiu

175	F0333	Synthesis of newly self-reinforced nanocellulose material with highly transparent and excellently ultraviolet blocking by hydroxyl-yne click reaction	Juan Yu
176	F0334	CNF modified mica-based composite phase change material grafted polyethylene glycol for thermal energy storage	Feifan Wu, Cheng Pan, Xiaofei Li
177	F0336	Strong Iridescent Cellulose Nanocrystal/Sodium Alginate Nanocomposite Films	Hu Zhaoxiang, Wang Jingyu, Fang Zhiqiang
178	F0344	Upgrading Lignin Nanoparticles for Reduced Heterogeneity and Improved Emulsification Capacity	Jing Tian, Junlong Song
179	F0348	High latent heat and stable composite phase change materials constructed with porous BNNS/ANF skeleton for effective thermal management	Xiyi Dai, Qiyang Dai, Fan Xie
180	F0352	Construction and application of cellulose-based two-dimensional lamellar membranes	Chong Wang, Zhanhui Yuan
181	F0361	Construction and application of nanocellulose-based 3D materials with biomimetic structure	Ting Xu, Yaxuan Wang, Kun Liu, Chuanling Si
182	F0366	Synthesis of ZIF-8 @ cellulose nanofibers hybrid membrane for oxygen and water vapor barrier	Mengmeng Guo, Qun Li, Zhiqiang Li
183	F0374	Preparation and Characterization of Size-Controlled lignin nanoparticles based on γ -valerolactone/water system by Nanoprecipitation	Lianjie Zhao, Qiang Wang
184	F0378	TEMPO-oxidized nanocellulose immobilized AgNPs modified antibacterial preservative chitosan composite film for fruits and vegetables package	Zijun Zhang, Guihua Yang
185	F0381	Deep eutectic solvent fractionation of lignocellulose and lignin microcapsuled pesticide fabrication	Shen Feiyue, Tian Dong
186	F0385	Refining crop straws to Fe-modified lignin-containing cellulose nanofibers for phosphorus recovery	Yiyi Chen, Ruqian Shen, Fei Shen, Dong Tian
187	F0387	UV-blocking application and mechanism research in hydrophilic-modified alkali lignin/nanocellulose composite films	Hui Zhao, Yanchen Zhu, Haonan Zhang, Hao Ren, Huamin Zhai
188	F0401	Analysis on Key Factors of Nano Cellulose Adsorbing Bagasse Hemicellulose	Shuyu Pang, Chen Liang
189	F0403	Preparation and performance study of modified superhydrophobic CNF membranes	Chen Zhao Xia

190	F0404	Preparation of Hemp Bast Nanocellulose characteristic by TEMPO-Mediated Oxidation	Nucharin Luangsa-Ard, Pradtana Muangprakaew
191	F0406	Development of nano lignin lignin-based anti-UV sunscreen and anti-aging film products	Mengqi Tang
192	F0407	Self-driven system powered by carbon-nanotube-functionalized aminated cellulose nanogenerators for electrocatalytic treatment of dye wastewater	Ting Ting Wang
193	F0408	Design of cellulose-based superhydrophobic surfaces by self-assembly	Xiangyu Tang, Yonggui Wang
194	F0410	Alkyl thiol grafted silver nanoparticle-decorated cellulose nanocrystals on poly(lactic acid) composites for enhanced antibacterial activity and toughening effects	Yonggui Wang, Lili Song
195	F0411	N-enriched porous submicron carbon spheres anchored Fe single-atom catalyst for superior oxygen reduction reaction and Zn-air batteries	Shen Meng Xia, Liu Jun, Sun Jiao Jiao
196	F0412	Phosphorylated wood designed as a biosorbent for effectively removing Ni ²⁺ from wastewater	Huashuang Huo
G-Biomass conversion to fuels, chemicals, and materials			
197	G0021	Valorization of wheat straw to facilitate value-added multi-product biorefinery using maleic acid hydrotropic fractionation	Chen Su, Guigan Fang
198	G0025	The calculation and application of lignin solubility parameters: A review	Qingzhi Ma
199	G0035	Fabrication of biomass-based material carbon aerogel and its Electrochemical Property Study	Qihang Cao
200	G0036	Correlation between thermal degradation behaviors and lignin chemical structures	Yiyi Zhang
201	G0037	Fabrication of MnO ₂ @C derived from lignin nanoparticles precursor with excellent electrochemical properties	Taoyuan Niu
202	G0040	Study on Delignification by Alkaline Hydrogen Peroxide Assisted with Different Solvents	Beiping Zhu, Jian Jiao, Fangmin Liang, Shanming Han, Guigan Fang, Qingwen Tian
203	G0043	A novel lignin-based adsorbent for the removal of Pb ²⁺ in water	Zhaohui Zhang, Anshan Huang, Yehong Chen, Chaojun Wu

204	G0044	A modified lignin extraction technology : an efficient path forward for integration active groups of lignin surface	Fangmin Liang, Jian Jiao, Guigan Fang, Beiping Zhu, Shanming Han, Qingwen Tian
205	G0048	Alkali-tolerant gel polymer electrolyte based on cross-linked cellulose for supercapacitors	Wen-Wen Zhang, Tong-Bao Jiang, Kai-Li Wu, Ming Wu, Han-Min Wang, Qing-Xi Hou
206	G0049	An aqueous, wide-voltage window and biodegradable all-solid-state supercapacitor with an ultrahigh energy density	Tong-Bao Jiang, Wen-Wen Zhang, Kai-Li Wu, Hanmin Wang, Qingxi Hou
207	G0050	Effect of structure of autohydrolyzed lignin on the electrochemical performance of lignin-derived porous carbon from ZnCO ₃ activation	Kaili Wu, Wen Wen Zhang, Bao Tong Jiang, Ming Wu, Min Han Wang, Xi Qing Hou
208	G0051	Flexible composite aerogels constructed via in-situ growth of metal-organic framework nanoparticles on cellulose nanofibrils	Kaiqing Wang, Shuo Yuan, Dan Huo, Qiulin Yang, Qingxi Hou, Fengshan Zhang, Chengwei Wu
209	G0054	A comparative study of woody and herbaceous biomass: acid hydrotrope-induced lignin/xylan removal and cellulose conversion	Ruibin Wang, Jing Zhang, Xuelian Zhou, Liang Jiao, Huiyang Bian, Hongqi Dai
210	G0055	Separation and Purification of Sugars from Metal Chloride Pretreatment effluent of Eucalyptus	Dan Huo
211	G0081	Biochars modified via a simple dual-templating approach for versatile dyes' removal and associated thermodynamics	Xinyu Zhang, Junlong Song
212	G0093	Immobilization of exposed silver nanoparticles on lignin-reactors for enhanced 4-nitrophenol hydrogenation	Wenzhe Xiao, Lingping Xiao, Yueqin Yang, Qian Xu, Runcang Sun
213	G0094	Pulp supported silver nanoparticles for highly efficient 4-nitrophenol hydrogenation	Weidong Xiao, Lingping Xiao, Wenzhe Xiao
214	G0102	High Efficient Lutein Delivery Emulsion by Acetylated Xylan	Shanyong Wang, Zhouyang Xiang

215	G0103	Polystyrene sulfonate: effective novel auxiliaries for enhancing biomass enzymatic saccharification under green liquor pretreatment in bioenergy poplar	Tian Liu
216	G0105	Bioactivity of different structural lignin: specificity studies of demethylated lignin in different cell lines	Yilin Wang, Yongcan Jin
217	G0107	Improvement of LignoBoost technology to extract lignin from straw biomechanical pulping effluent	Zhongqiu Fan, Hongbin Liu
218	G0111	Hydrothermal carbonization (HTC) of pomelo peel with different sugar content for hydrothermal carbons and adsorption of Escherichia coli in vitro	Yuxin Liu
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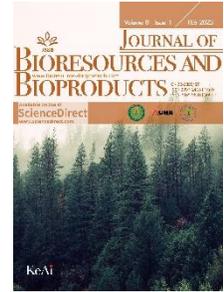
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