



Advanced Materials and Applications
08:00-10:40 (KOREA, GMT+9)
Onsite & Virtual Room A (Online)

TBIS 2024 Plenary Speakers

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Morning, Thursday, August 21



Professor Kanji Kajiwara (Onsite)
Shinshu University, Japan

Plenary Medal Speakers 1:
Is Recycling Doing a Good Job for Our Sustainable Future?



Professor Xungai Wang (Onsite)
The Hong Kong Polytechnic University, HongKong, China

Plenary Medal Speakers 2:
Textile Sustainability – Past, Present and Future



Professor Wei Chen (Onsite)
Zhejiang Sci-Tech University, China

Plenary Medal Speakers 3:
Ionogel Electroactive Materials and Wearable Devices



Professor Guowen Song (Onsite)
Iowa State University, USA

Plenary Medal Speakers 4:
Fighting the Long-Term Health Impact: Cancer and Hazardous Substance
Exposure in Firefighters and Understanding



Professor Aizheng Chen (Onsite)
Huaqiao University, China

Plenary Medal Speakers 5:
Supercritical Fluid Technology based Decellularized Extracellular Matrix for
Biomedical Application



Professor Apurba Das (Onsite)
Indian Institute of Technology Delhi, India

Plenary Medal Speakers 6:
Electrostatic Spray Coating Technology for Thermoplastic Composites

Co-organized by :





Textile Functionality and Sustainability
11:15-12:45 (KOREA, GMT+9)
Onsite & Virtual Room A (Online)

TBIS 2024 Plenary Speakers

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Morning, Thursday, August 21



Professor Li Liu (Onsite)
Beijing Institute of Fashion Technology, China

Plenary Medal Speakers 7:
Key Technologies and Applications in the Research and Development of High-Performance Clothing for Winter Olympic Training Competitions



Professor Chiyomi Mizutani (Onsite)
Otsuma Women's University, Japan

Plenary Medal Speakers 8:
Heat Retention of Fabrics composed of Moisture-absorbing Heat-generating Fibers and Wear Comfort



Professor Xuemei Ding (Onsite)
Donghua University, China

Plenary Medal Speakers 9:
Developing a Green Development Evaluation System for Ethiopian Textile and Garment Industrial Parks



Professor Tamaki Takada Mitsuno (Onsite)
Shinshu University, Japan

Plenary Medal Speakers 10:
Comparison of Subjective and Objective Assessments of Japanese People's Feeling of 'Out of Place' with Their Clothing



Professor Jiyong Hu (Onsite)
Donghua University, China

Plenary Medal Speakers 11:
Wireless Temperature Sensing Yarn with UHF RFID Helix Dipole Hybrid Antenna for Respiratory Monitoring



Professor Seung Kook An (Onsite)
Pusan National University, Korea

Plenary Medal Speakers 12:
Methodology and Parameters Affecting the Clothing Comfort

Co-organized by :





E-Textiles, Wearables and Biomedical Textiles
14:00-15:15 (KOREA, GMT+9)
Onsite & Virtual Room A (Online)

TBIS 2024 Medal Speakers

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Session B: Afternoon, Wednesday, August 21



Professor Xiuju Song (Onsite)
Zhejiang University, China

Medal Speakers 6:
Cr₂Te₃-Encapsulated Liquid Metal for Wearable Sensors



Professor Zheng Zhao (Onsite)
Wuhan University of Technology, China

Medal Speakers 7:
Multifunctional Hydrogel Dressings for Accelerating Wound Healing



Dr. Lu Jin (Onsite)
Yiwu Research Institute of Fudan University, China

Medal Speakers 8:
Piezoelectric Poly-L-Lactic Acid Film-based Wearable Sensors



Dr. Jun Song (Onsite)
Shanghai University, China

Medal Speakers 9:
Mechanism of Electrocatalyzed MXene Nanoenzymes Wet-spun Fibrous Dressing for Promoting Diabetic Ulcer Healing



Dr. Zhongda Chen (Onsite)
Nanjing Medical University, China

Medal Speakers 10:
The Mechanical Mechanism of Knitted Strain Sensor for Pulse Wave Monitor from Skin Surface

Co-organized by :





Textile Material, Products and Informatics
14:00-15:15 (KOREA, GMT+9)
Onsite & Virtual Room A (Online)

TBIS 2024 Medal Speakers

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Room A: Afternoon, Wednesday, August 21



Dr. Mohanapriya Venkataraman (Onsite)
Technical University of Liberec, Czech Republic

Medal Speakers 1:
Enhancing Thermal Management by Using Thermo-Reflective Materials



Dr. Annie Yu (Onsite)
The Hong Kong Polytechnic University, Hong Kong, China

Medal Speakers 2:
Effect of Structure and Material of Bilayer Knitted Fabric on Tactile Sensation and Warm Retention



Dr. Dana Kremenakova (Onsite)
Technical University of Liberec, Czech Republic

Medal Speakers 3:
Air Permeability and Breathability Evaluation of Textile Layers



Dr. Long Wu (Onsite)
Xi'an Polytechnic University, China

Medal Speakers 4:
Research on Knowledge Modeling of Business Suit Pattern Design and Development of Automated Patternmaking Platform



Professor Jifu Mao (Onsite)
Donghua University, China

Medal Speakers 5:
Polypyrrole-based Conductive Fibers and Textiles for Biomedical Applications

Co-organized by :





Workshop
14:00-15:15 (KOREA, GMT+3)
Onsite & Virtual Room B (Online)

TBIS 2024 Workshop

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Session C: Afternoon, Wednesday, August 21



Professor Xianyi Zeng (Online)
ENSAIT, France

Workshop 1:
Introduction to FBD_BMODEL Project and FBD Foundation



Professor Yi Li (Onsite)
The University of Manchester, UK

Workshop 2:
On Sustainable and Circular Textiles



Tim Jun Li (Onsite)
Digital Clothing Limited, UK

Workshop 3:
The FBD platform for ESG and ESPR Legislation Compliance



Chathura Sudharshan (Online)
Seamless Source, UK

Workshop 4:
The Future of Transparency and Circularity



Dr. Zhangchi Liu (Onsite)
Qingdao University, China

Workshop 5:
Innovation and Entrepreneurship Based on Digital Twin Textile Supply Chain Platform



Xiao-Nan Xu (Onsite)
The University of Manchester, UK

Workshop 6:
Advances in Textile Skin Comfort and Hand Feel Digitization for Sustainability



Xu Wang (Onsite)
The University of Manchester, UK

Workshop 7:
Fabric Hand Digitalization and Traceability in Wool Textile Manufacturing Processes



Hao-Ke Liu (Onsite)
The University of Manchester, UK

Workshop 8:
Advances in Digitization and Implementation of Textile Circularity

Co-organized by :





Wearables, Digital and Sustainable
Technologies
14:00-17:40 (KOREA, GMT+9)
Virtual Room A (Online)

TBIS 2024 Plenary Speakers



Afternoon, Thursday, August 22



Professor Terry Ye (Online)
Southern University of Science and Technology, China

Plenary Medal Speakers 25:
Quantifying the Parasitic Capacitance of Conductive Yarns Used in High-Frequency Applications



Professor Wei Fan (Online)
Xi'an Polytechnic University, China

Plenary Medal Speakers 26:
Construction and Application of Breathing All-fiber Nanogenerator



Dr. Aris Rui Huang (Online)
Chengdu SwiftChain Technology Co., Ltd., China

Plenary Medal Speakers 27:
Implementation of Clothing from Conception to Design Based on the AGI's Diffusion Transformer Framework



Professor Jiri Militky (Online)
Technical University of Liberec, Czech Republic

Plenary Medal Speakers 28:
Upcycling of Basic Fibrous Waste Types



Professor Xianyi Zeng (Online)
ENSAIT, France

Plenary Medal Speakers 29:
DigitalFashion: A Technology Platform for Digital Fashion Training Through Digitalization of Fabrics, Garments and Human Bodies and Fashion Design Elements



Professor Rajesh Mishra (Online)
Czech University of Life Sciences Prague, Czech Republic

Plenary Medal Speakers 30:
Computational and Analytical Studies on Sandwich Composites Reinforced with Hybrid Fibrous Materials and Bio-fillers



Dr. Jianquan Cheng(Online)
Manchester Metropolitan University, UK

Plenary Medal Speakers 31:
Estimating Exercisability on Urban Greenways Using Physical Exercise Trajectory Data and Network-constrained Approach



Dr. Prabhuraj Venkatraman (Online)
Manchester Metropolitan University Manchester, UK

Plenary Medal Speakers 32:
State of the Fashion Industry: Challenges, Opportunities and Barriers to Implement Circular Economy Principles



Dr. Kai-chiu Ho (Online)
Hansk New Materials Holdings Limited, Hong Kong, China

Plenary Medal Speakers 33:
Innovative Anti-Bed Bug Technology for Textiles and Clothing



Professor Li Li (Online)
The Hong Kong University of Science and Technology, Hong Kong, China

Plenary Medal Speakers 34:
Unleashing the Creative Potential: Textiles as Catalysts for Interdisciplinary Innovation and Commercialization Success



Professor Keqin Zhang (Online)
Soochow University, China

Plenary Medal Speakers 35:
Large-scale Manufacturing Optical Micro/Nano Functional Fibers for Thermal Energy Management and Collection



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Biomedical and Functional Textiles
08:00-11:00 (KOREA, GMT+9)
Virtual Room A (Online)

TBIS 2024
Plenary Speakers

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Morning, Thursday, August 22



Professor Bingqing Wei (Online)
University of Delaware, USA

Plenary Medal Speakers 13:
Can Photoelectric Conversion Efficiency of Solar Cells Be Doubled?



Professor Uwe Reischl (Online)
Boise State University, USA

Plenary Medal Speakers 14:
Impact of Cosmetic Hairspray on Fabric Flammability



Professor Xudong Wang (Online)
University of Wisconsin-Madison, USA

Plenary Medal Speakers 15:
Synthesis and Large-Scale Assembly of Piezoelectric Biomaterials and Devices



Professor Zhaoqun Du (Online)
Donghua University, China

Plenary Medal Speakers 16:
Structure Formation, Theoretical Analysis and Application of a Series of Auxetic Textiles



Professor Lijing Wang (Online)
RMIT University, Australia

Plenary Medal Speakers 17:
Automatic Identification of Textile Fibre Under Optical Microscope Using Neural Network Recognition Technology



Professor Gang Li (Online)
Pusan National University, Korea

Plenary Medal Speakers 18:
Calotropis Gigantea Fiber and Its Eco-functional Textiles



Professor Xiumei Mo (Online)
Donghua University, China

Plenary Medal Speakers 19:
Electrospun Nanofiber and Nanoyarn for Tissue Engineering



Professor Maobin Xie (Online)
Guangzhou Medical University, China

Plenary Medal Speakers 20:
Unleashing the Creative Potential: Textiles as Catalysts for Interdisciplinary Innovation and Commercialization Success



Dr. Fengzhi Li (Online)
Nanjing University of Aeronautics and Astronautics, China

Plenary Medal Speakers 21:
Research on Human Thermal Regulatory Model based on Real Human Geometry and Arterial Vascular Tree



Professor Xiaoqin Wang (Online)
Soochow University, China

Plenary Medal Speakers 22:
Enhancing CO₂ Capture and Utilization: A Dual-Function Approach Using Silk Fibroin Hydrogels and Carbon Absorbents



Professor Liangjun Xia (Online)
Wuhan Textile University, China

Plenary Medal Speakers 23:
Color Construction of Textile Fiber Materials



Dr. Lei Yao (Online)
Hong Kong Research Institute of Textiles and Apparel, Hong Kong, China

Plenary Medal Speakers 24:
Solutions for Microplastics



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10:15-11:15 (KOREA, GMT+9)
Virtual Room B, C, D (Online)

TBIS 2024 Medal Speakers

Room B, Morning, Thursday, August 22



Dr. KyungOk Kim (Online)
Tokai University, Japan

Medal Speakers 11:
Measuring Methods of Body Shape for Efficiently Manufacturing Individualized Garments



Dr. Liya Zhou (Online)
Donghua University, China

Medal Speakers 12:
Development And Performances Testing of Sitting Cushion with Comfort Zone Partition Based on Setting Poster Analysis



Dr. Eric Wang (Online)
SGS Connectivity & Products, Global Softlines, China

Medal Speakers 13:
Study on the Recycling of Various Textile Materials and Their Impact to the Textile Industry Decarbonization

Room C, Morning, Thursday, August 22



Dr. Jiashen Li (Online)
The University of Manchester, UK

Medal Speakers 14:
Preparation and Characterization of Three Dimensional Nanofibrous Scaffold



Dr. Zekun Liu (Online)
University of Oxford, UK

Medal Speakers 15:
Fiber Materials and Devices for Digital Healthcare



Dr. Hui Huang (Online)
Singapore Institute of Manufacturing Technology (SIMTech), Agency for Science, Technology and Research (A*STAR), Singapore Institute of Technology (SIT), Singapore

Medal Speakers 16:
Printed Flexible Electronics for Advanced MedTech Trajectory Data and Network-constrained Approach



Dr. Yueping Guo (Online)
Novel Protective Textiles Limited, Hong Kong, China

Medal Speakers 17:
Heat and Moisture Transfer of Multilayer Adult Incontinence Briefs in Computational Simulations and Objective Measurements

Room D, Morning, Thursday, August 22



Dr. Chunhong Zhu (Online)
Shinshu University, Japan

Medal Speakers 18:
High Performance Wearable TENG Utilizing Nanofiber Membrane for Energy-harvesting



Professor Yanhua Cheng (Online)
Donghua University, China

Medal Speakers 19:
Visualization of Polymer Fiber Microstructures by AI/Egens



Professor Ronghui Guo (Online)
Sichuan University, China

Medal Speakers 20:
In-situ Crosslinking Reinforced Cellulose Aerogel Fibers for Thermal Insulation and Multifunctional Applications



Dr. Danmei Sun (Online)
Heriot-Watt University, UK

Medal Speakers 21:
Enhancing Thermal Management in Protective Textiles Using Hydrated Salt as Phase Change Materials