



1st Asia Advanced Materials Summit

Marriott Shanghai Parkview Hotel, Shanghai, China

March 8-10 , 2021

Sponsored by

China Association for Science and Technology (CAST)

Organized by

Advanced Materials Alliance of CAST Member Societies (AMAC)

Asia Pacific Academy of Materials (APAM)

International Union of Materials Research Societies (IUMRS) Regional Office in Asia

Co-organized by

China Textile Engineering Society

Chinese Materials Research Society

Chinese Society of Micro-Nano Technology

Donghua University

Fudan University

Shanghai Institute of Ceramics, CAS

Shanghai Jiaotong University

Shanghai University

The Chinese Society for Metals

The Chinese Ceramic Society

The Nonferrous Metals Society of China



GENERAL PROGRAM

DATE	MARCH 8 (MON)	MARCH 9 (TUE)	MARCH 10 (WED)
Morning	Registration	Plenary Session 1	Parallel Sessions
Afternoon		Plenary Session 2	Parallel Sessions & Roundtable Discussion
Evening		Entertainment	



Marriott Shanghai Parkview Hotel, Shanghai, China

Welcome from Summit Chairs

Dear participants and friends

Welcome to Shanghai to attend First Asia Advanced Materials Summit (AAMS).

The Asia Advanced Materials Summits are initiated by China Association for Science and Technology (CAST). The aim of the summits is to provide a platform for the materials scientists and entrepreneurs in Asia to present their recent research and development achievements in the field of materials science and technology, and promote the cooperation among Asia Materials Research Societies and scientists in the field of advanced materials around the world. The 1st AAMS is sponsored by China Association for Science and Technology (CAST) and organized by Advanced Materials Alliance of CAST Member Societies (AMAC), Asia Pacific Academy of Materials (APAM), and International Union of Materials Research Societies (IUMRS) Regional Office in Asia.

The main interest of the first summit is focused on advanced materials including energy materials, advanced processing of light alloys, new electronic ceramic materials, sensor system materials, biomedical materials, and advanced biomaterials.

This summit invites 54 distinguished scientists in Asia and the world to present the recent research achievements in the above fields on plenary and parallel sessions. Due to the present situation of COVID-19, the format of presentation in this summit will be the combination of on-site presentation and online presentation (or by VCR) from the overseas speakers who are not possible for international travel.

We sincerely hope that you will enjoy this summit and have a nice stay in Shanghai.



Prof. Yafang Han

International Academic Communication Committee, AMAC
Immediate past president, IUMRS



Prof. Tao Deng

Professor, Shanghai Jiao Tong University
Development Commission Chair, IUMRS

GENERAL INFORMATION

The Asia Advanced Materials Summits are initiated by China Association for Science and Technology (CAST). The aim of the summits is to provide a platform for the materials scientists and entrepreneurs in Asia to exchange their recent research and development achievements in the field of materials science and technology, and promote the cooperation among Asia materials scientists.

The first summit is hosted in Marriott Shanghai Parkview Hotel, Shanghai, China, March 8-10, 2021. And the main interests will be focused on advanced materials including energy materials, advanced process of light alloys, new electronic ceramic materials, sensor system materials, biomedical materials and advanced bio-materials.

The summit invites 72 distinguished scientists, governmental officials and entrepreneurs in Asia and the world to present the current industrial status, recent research achievements, and government policies in the above fields, and to discuss the development policies, the future of the advanced materials and the cooperation among Asia counties and regions. All the speakers of this summit are by invitation only.

Time: March 8-10, 2021

Venue: Marriott Shanghai Parkview Hotel, No. 333 Guangzhongxilu, Shanghai, China

Scale: 200

Format of presentation for this summit: Due to the present situation of COVID-19, the format of presentation mode this summit will be mainly on-site communication combined with online presentations (by VCR and ZOOM) from the overseas speakers who are not possible for international travel in the summit period.

MAIN TOPICS OF THE SUMMIT

- A. Energy storage and conversion materials
- B. New forming technology of light alloy
- C. New electronic ceramic materials
- D. Biomedical fiber and composite materials
- E. Micro/ nano sensor system and sensitive materials
- F. Advanced biomaterials

INTERNATIONAL ADVISORY BOARD

Chairs:	Yong Gan	President of AMAC
	Rodrigo Martins	President of IUMRS (2021-2022)
Members:	B. V. R. Chowdari	(IUMRS HO officer), Singapore
	Yuan Ping Feng	(IUMRS officer) Singapore
	Guangwei Fu	China Textile Engineering Society
	Enhon Han	APAM
	Hideo Hosono	MRS-Japan
	Jow-Lay Huang	MRS Taiwan
	Mingxing Jia	The Nonferrous Metals Society of China
	Woo-Gwang Jung	MRS-Korea
	Soo Wahn Lee	(IUMRS officer), Korea

Members:	Changsheng Liu	Shanghai University
	Evvy Kartini	MRS Indonesia
	Naoki Kishimoto	(IUMRS officer), Japan
	S.B. Krupanidhi	MRS-India
	Santi Maensiri	MRS Thailand
	Cewen Nan	Tsinghua University
	Oswaldo Novais de Oliveira Jr	(IUMRS officer) Brazil
	Jim S. Williams	(IUMRS officer) Australia
	Tim White	MRS Singapore
	Zheng You	Tsinghua University
	Meifang Zhu	Donghua University, China

SUMMIT ORGANIZATIONS

Chairs:	Yafang Han	IUMRS
	Tao Deng	Shanghai Jiaotong University

ORGANIZING COMMITTEE

Chairs:	Pei Zhao	The Chinese Society for Metal
Co-chairs:	Chengtie Wu	Shanghai Institute of Ceramics, CAS
	Jincang Zhang	Shanghai University
Members:	Wenbin Cao	University of Science and Technology Beijing
	Huanzhi Gao	The Nonferrous Metals Society of China
	Zhanping Jin	The Chinese Ceramic Society
	Jun Liu	China Textile Engineering Society
	Yongfeng Mei	Fudan University
	Lixin Song	Shanghai Institute of Ceramics, CAS
	Xinjiang Wang	The Chinese Society for Metals
	Yueming Pang	The Nonferrous Metals Society of China
	Xiaohao Wang	Tsinghua University
	Shanhong Xia	Aerospace Information Research Institute, CAS
	Hongling Zhang	China Textile Engineering Society

GENERAL SECRETARIES

Ziqiang Dong	Shanghai University
Fenfen Liang	Chinese Materials Research Society
Kim Lin	Chinese Materials Research Society

Opening Ceremony & Plenary Session

March 9, 2021 (Tuesday)

Location: Banquet Hall, 2nd floor, Marriott Shanghai Parkview Hotel,

Time: 08:30-18:20

Opening Ceremony

Chair: Meifang Zhu (Vice president of C-MRS, Academician of CAS)

Welcome addressing by:

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|---|-------------|
| ① Yafang Han (Chair of AAMS) | 08:30-08:35 |
| ② Guangwei Fu (Vice president of AMAC) | 08:35-08:40 |
| ③ Minghong Wu (Vice president of Shanghai University) | 08:40-08:45 |

Group photo

08:45-09:00

Plenary Session I

Chairs: Tao Deng, Zhengxiao Guo

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|--|-------------|
| ① Functional Oxide Films Fabricated by Whole Processes below 100 °C
Nobuhiro Matsushita, Tokyo Institute of Technology, Japan | 09:00-09:30 |
| ② Intelligent Materials & Systems: Healthcare
Ramakrishna Seeram, National University of Singapore, Singapore | 09:30-10:00 |
| ③ Recent Development of Structural Materials and Its Integration
as Multifunctional Materials
Jian Lu, City University of Hong Kong, China | 10:00-10:30 |

Coffee break

10:30-10:50

Chairs: Xiaoqin Zeng, Jian Lu

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|--|-------------|
| ④ Energy Generating Systems Incorporating Polymer Membranes
Young Moo Lee, Hanyang University, Korea | 10:50-11:20 |
| ⑤ Ductile Inorganic Semiconductors and Their Applications in Thermoelectrics
Lidong Chen, Shanghai Institute of Ceramics, CAS | 11:20-11:50 |
| ⑥ Transparent Amorphous Oxide Semiconductors IGZO: From Materials
Design to Implementation in Advanced Displays
Hideo Hosono, Tokyo Institute of Technology, Japan | 11:50-12:20 |

Lunch

12:20-13:30

Plenary Session II

Chairs: Yongfeng Mei, Byungha Shin

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|-----------|--|-------------|
| 7 | Engineering Catalytic Sites for Effective Energy Conversion
Zhengxiao Guo, The University of Hong Kong, China | 13:30-14:00 |
| 8 | Bioinspired Thermal Materials and Applications
Tao Deng, Shanghai Jiao Tong University, China | 14:00-14:30 |
| 9 | Graphene Technology for Energy Storage Applications
Adisorn Tuantranont, National Science and Technology Development Agency, Thailand | 14:30-15:00 |
| 10 | 3D Printing of Biomimetic Biomaterials
Chengtie Wu, Shanghai Institute of Ceramics, China | 15:00-15:30 |

Coffee break 15:30-15:50

Chairs: Chengtie Wu, Adison Tuantranont

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|-----------|---|-------------|
| 11 | Plasma Technics: The Green Processes for Atmospheric
Depollution and Industrial Innovation
Jacques Amourou & Serguey Dresvin, Sorbonne University /ENSCP/EMRS, France | 15:50-16:20 |
| 12 | Efficient, Stable Silicon Tandem Cells Enabled by Anion-Engineered
Wide-Bandgap Perovskites
Byungha Shin, KAIST, Korea | 16:20-16:50 |
| 13 | Suspended Carbon Nanotube FETs for NO ₂ Gas Sensors
Christofer Hierold, ETH Zurich, Switzerland | 16:50-17:20 |

Chair: Wenbin Cao

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|-----------|---|-------------|
| 14 | Materials for a Sustainable World
Rodrigo Martins, New University of Lisbon, Portugal | 17:20-17:50 |
| 15 | Materials and Their Architectures for Micro/Nanorobotics
Yongfeng Mei, Fudan University, China | 17:50-18:20 |

Closing Remarks by Prof. Tao Deng 18:20-18:25

Evening Banquet: 2nd floor, Marriott Parkview Hotel 18:30-20:30

Parallel Session A

Energy Storage and Conversion Materials

Chairs

Xuejie Huang

Institute of Physics, CAS

Ying Wu

Jiangsu JITRI Advanced Energy & Materials Research Institute Co., Ltd.

Liaison

Xiaomei Ma

Chinese Materials Research Society

Tel:86-13810257570

E-mail: maxm1213@163.com

Parallel Session A **Energy Storage and Conversion Materials**

Location: Meeting Room No. 5, 2nd Floor, Marriott Shanghai Parkview Hotel

Time: 09:00-15:00, March 10, 2021

Chairs: XueJie Huang

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|----------|--|-------------|
| 1 | Thermally-driven Hydrogen Compression Utilising Metal Hydrides
Lototskyy Mykhaylo, University of the Western Cape,
HySA Systems, South Africa | 09:00-09:30 |
| 2 | Lightweight Hydrides for High-Capacity Hydrogen Storage
Haiwen Li, Hefei General Machinery Research Institute, China | 09:30-10:00 |
| 3 | Hydrogen Storage Alloys and Their Application in PEM Fuel Cell
Ying Wu, Jiangsu JITRI Advanced Energy & Materials Research Institute Co., Ltd., China | 10:00-10:30 |

Coffee break 10:30-10:40

Chairs: Ying Wu

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| 4 | The Current State of Research and Development of Lithium-ion
Battery NMC Based on the Local Mineral Resources
Evy Kartini, Materials Research Society Indonesia | 10:40-11:10 |
| 5 | To Stabilize LiNi _{0.5} Mn _{1.5} O ₄ in Carbonate Based Electrolyte
Xuejie Huang, Institute of Physics, CAS & Songshan Lake Laboratory for Materials, China | 11:10-11:40 |
| 6 | Controllable Synthesis and Energy Storage of Light Metal Hydrides
Xuebin Yu, Fudan University, China | 11:40-12:10 |

Lunch 12:10-13:20

Chairs: XueJie Huang

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| 7 | Development of Thermoelectric Single Crystals by the Bridgman Method
Jiayue Xu, Shanghai Institute of Technology, China | 13:30-14:00 |
| 8 | Fuel Cells and Metallic Bipolar Plates
Zhigang Qi, Innoreagen Power Technology Co., Ltd., China | 14:00-14:30 |
| 9 | Cathode Pre-lithiation Strategies for Lithium Ion Battery
Yong Yan, Songshan Lake Laboratory for Materials, China | 14:30-15:00 |

Parallel Session B

New Forming Technology of Light Alloy

Chairs

Xiaoqin Zeng

Shanghai Jiao Tong University

Bing Jiang

Chongqing University

Co-Chair

Renguo Guan

Dalian Jiaotong University

Liaison

Fang Li

Yueming Pang

The Nonferrous Metals Society of China

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Parallel Session B **New Forming Technology of Light Alloy**

Location: Banquet Hall, 2nd floor, Marriott Shanghai Parkview Hotel

Time: 09:00-16:50, March 10, 2021

Chair: Bin Jiang

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|----------|---|-------------|
| 1 | The effect of alloying on ductility of magnesium alloys
Xiaoqin Zeng, Shanghai Jiao Tong University, China | 09:00-09:30 |
| 2 | High-performance Al alloys via cryo-forming
Hailiang Yu, Central South University, China | 09:30-10:00 |
| 3 | On twin propagation and stress relaxation in magnesium alloys
Peidong Wu, McMaster University, Canada | 10:00-10:30 |
| 4 | Damage and fracture in multi-scaled materials processing and manufacturing
Mingwang Fu, The Hong Kong Polytech University, China | 10:30-11:00 |

Coffee break

11:00-11:20

Chair: Xiaoqin Zeng

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| 5 | High performance magnesium alloy plates and its novel process
Bin Jiang, Chongqing University, China | 11:20-11:50 |
| 6 | Novel nanocomposite powders with dispersed pre-embedded nano-particles for 3D printing and powder metallurgy
Zhe Chen, Shanghai Jiao Tong University, China | 11:50-12:20 |

Lunch

12:20-13:30

Chair: Zhe Chen

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|-----------|---|-------------|
| 7 | Anti-phase boundary energy of β series precipitates in Mg-Y-Nd system
Qian Li, Shanghai University, China | 13:30-14:00 |
| 8 | Short process of high performance nonferrous metals
Renguo Guan and Di Tie, Dalian Jiaotong University, China | 14:00-14:30 |
| 9 | Synergy in hybrid multi-scale particles for the improved formability of Al-Zn-Mg-Cu alloys
Linzong Zhuang, University of Science and Technology Beijing, China | 14:30-15:00 |
| 10 | Strengthening and toughening of Mg alloy by electroplusing treatment
Yanbin Jiang, Central South University, China | 15:00-15:30 |

Coffee break

15:30-15:50

Chair: Qian Li

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| 11 | Additive manufacturing of Metal Forming Tools for hot aluminum stamping processes
LiLiang Wang and Dimitrios Chantzis, Imperial College, London, UK | 15:50-16:20 |
| 12 | Data-driven high-throughput composition refinement of Al alloys
Yi Liu, Shanghai University, China | 16:20-16:50 |

Parallel Session C

New Electronic Ceramic Materials

Chairs

Jingfeng Li

Tsinghua University

Xun Shi

Shanghai Institute of Ceramics, CAS

Liaison

Shan Zheng

Shanghai Institute of Ceramics, CAS

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Parallel Session C **New Electronic Ceramic Materials**

Location: Meeting Room No. 3, 2nd Floor, Marriott Shanghai Parkview Hotel

Time: 09:00-15:00, March 10, 2021

Chairs: Jingfeng Li

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|----------|--|-------------|
| 1 | Grain Boundary Engineering
G. Jeffery Snyder, Northwestern University, USA | 09:00-09:30 |
| 2 | New Fluorooxoborate Nonlinear Optical Materials
Shilie Pan, The Xinjiang Technical Institute of Physics & Chemistry, CAS, China | 09:30-10:00 |
| 3 | Sulfide Based Composite Electrolyte
Guanglei Cui, Qingdao Institute of Bioenergy and Bioprocess Technology, CAS, China | 10:00-10:30 |

Coffee break 10:30-10:50

Chairs: Xun Shi

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| 4 | Design and Fabrication of Self-Powered Tactile Sensing Materials and Devices
Yuan Deng, Beihang University, China | 10:50-11:10 |
| 5 | Toroidal Polar Topology in Strained Ferroelectric Polymer
Yang Shen, Tsinghua University, China | 11:10-11:40 |
| 6 | Defect Engineering in Layered-Double-Hydroxide Based Ephotocatalysts for Solar Fuels
Tierui Zhang, Technical Institute of Physics and Chemistry, CAS, China | 11:40-12:10 |

Lunch 12:10-13:20

Chairs: Yanzhong Pei

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|----------|---|-------------|
| 7 | Achieving Enhanced Thermoelectric Performance in Multi-phase Materials
Qingyu Yan, Nanyang Technological University, Singapore | 13:30-14:00 |
| 8 | Ordered Manipulation of Perovskite Optoelectronic Conversion Devices
Liang Li, Soochow University, China | 14:00-14:30 |
| 9 | Wide Band Gap Thermoelectric Materials
Lidong Zhao, Beihang University, China | 14:30-15:00 |

Parallel Session D

Biomedical Fiber and Composite Materials

Chairs

Lu Wang

Donghua University

Co-chairs

Fujun Wang; Guoping Guan

Donghua University

Liaison

Qiongqiong Bai

China Textile Engineering Society

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Ting Zou

Donghua University

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Parallel Session D **Biomedical Fiber and Composite Materials**

Location: Meeting Room No. 4, 2nd Floor, Marriott Shanghai Parkview Hotel

Time: 09:00-16:00, March 10, 2021

Chairs: Chuhong Zhu, Jianxiong Tang, Lu Wang

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|----------|--|-------------|
| 1 | Concept and Clinical Application of Synthetic Fiber Lightweight Mesh in Hernia Surgery
Jianxiong Tang, Huadong Hospital Affiliated to Fudan University, China | 09:00-09:30 |
| 2 | Time Sequence Functional Stent-A Novel Principle for Developing Advanced Cardiovascular Stent
Nan Huang, Southwest Jiaotong University, China | 09:30-10:00 |
| 3 | Blood Conduits for Implantation in Open Surgery: from Infancy to Maturity
Robert Guidoin, Université Laval, Canada | 10:00-10:30 |

Coffee break 10:30-10:50

Chairs: Nan Huang, Shenzhou Lu

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| 4 | Construction and Application of the Textile-based Regeneration Scaffold
Lu Wang, Donghua University, China | 10:50-11:20 |
| 5 | Reactive Hydrogel Electrospinning for Fabricating Cell-instructive Scaffolds and Interfaces
Todd Hoare, McMaster University, Canada | 11:20-11:50 |

Lunch 11:50-13:30

Chairs: Fujun Wang, Guoping Guan

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|----------|--|-------------|
| 6 | Construction of Small Diameter Tissue Engineered Blood Vessel in Vivo
Chuhong Zhu, Army Medical University, China | 13:30-14:00 |
| 7 | Study on Silk Fibroin Hydrogel
Shenzhou Lu, Soochow University, China | 14:00-14:30 |
| 8 | Fibers in the Cardiovascular: The Heart Valve Application
Frederic Heim, Université de Haute Alsace, France | 14:30-15:00 |

Chairs: Lu Wang, Fujun Wang

Roundtable Discussion 15:00-16:00

Parallel Session E

Micro/ Nano Sensor System and Sensitive Materials

Chairs

Yuelin Wang

Shanghai Institute of Microsystem and Information Technology, CAS

Shanhong Xia

Aerospace Information Research Institute, CAS

Xiaohong Wang

Tsinghua University

Liaison

Qianqian Zhang

CSMNT

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E-mail: zqq@csmnt.org.cn

Parallel Session E
Micro / Nano Sensor System and Sensitive Materials

Location: Meeting Room No. 1, 2nd Floor, Marriott Shanghai Parkview Hotel

Time: 09:00-16:00, March 10, 2021

Chairs: Xiaohong Wang, Tie Li

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|----------|--|-------------|
| 1 | Piezoelectric MEMS
Ryutaro Maeda, AIST/Xi'an Jiaotong University, Japan/China | 09:00-09:30 |
| 2 | Quantum Chip for Quantum Communication and Quantum Computing
Aiqun LIU, Quantum Science & Engineering Centre (QSec) Nanyang Technological University, Singapore | 09:30-10:00 |
| 3 | Aluminum Nitride (AlN) Based RFMEMS Filters
Nan Wang, Institute of Microelectronics, Agency for Science, Technology and Research (A*STAR), China | 10:00-10:30 |

Coffee break

10:30-10:50

Chairs: Wendong Zhang, Ting Zhang

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|----------|--|-------------|
| 4 | Development and Applications of Micro/Nano Acoustic Sensors
Wendong Zhang, North University of China, China | 10:50-11:20 |
| 5 | Beyond the Electrolytic Capacitor, Micro Supercapacitor at High-Frequency for Circuit Systems
Xiaohong Wang, Tsinghua University, China | 11:20-11:50 |

Lunch

11:50-13:30

Chairs: Yuelin Wang, Wengang Wu

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|----------|---|-------------|
| 6 | 3D Air-Gap Plasmonic Nanocavity Metamaterials for Structural Color and Biosensing Applications
Wengang Wu, Peking University, China | 13:30-14:00 |
| 7 | High Performance Sensors with Silicon Nanowire Array
Tie Li, SIMIT, CAS, China | 14:00-14:30 |
| 8 | Flexible and Stretchable Sensing Electronics
Ting Zhang, Suzhou Institute of Nano-tech and Nano-bionics Chinese Academy of Sciences, China | 14:30-15:00 |

Roundtable Discussion

15:00-16:00

Parallel Session F

Advanced Biomaterials

Chairs

Chengtie Wu

Shanghai Institute of Ceramics, CAS

Jianzhong Du

Tongji University

Liaison

Hongshi Ma

Shanghai Institute of Ceramics, CAS

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E-mail: mahongshi@mail.sic.ac.cn

Parallel Session F **Advanced Biomaterials**

Location: Meeting Room No. 2, 2nd Floor, Marriott Shanghai Parkview Hotel

Time: 09:00-17:00, March 10, 2021

Chairs: Chengtie Wu, Lecture time: 25min / person +5min discussion

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|---------------------|---|-------------|
| 1 | Functional Scaffolds and Biomimetic Matrices for Biomedical Applications
Guoping Chen, National Institute for Materials Science, Japan | 09:00-09:30 |
| 2 | Cancer Nanovaccine
Xiaoyuan Chen, National University of Singapore, Singapore | 09:30-10:00 |
| 3 | Biomaterials regulating bone hematoma for osteogenesis
Yin Xiao, Queensland University of Technology, Australia | 10:00-10:30 |
| Coffee break | | 10:30-11:00 |

Chairs: Jianzhong Du, Lecture time: 25min/ person +5min discussion

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|--------------|---|-------------|
| 4 | Bioresponsive Drug Delivery
Zhen Gu, Zhejiang University, China | 11:00-11:30 |
| 5 | Biodegradable Metals-definition, classification, criteria and research status
Yufeng Zheng, Peking University, China | 11:30-12:00 |
| Lunch | | 12:00-13:30 |

Chairs: Yufang Zhu, Lecture time: 25min/ person +5min discussion

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|----------|--|-------------|
| 6 | Structurally dynamic biomaterials for regulating cell functions
Liming Bian, the Chinese University of Hong Kong, China | 13:30-14:00 |
| 7 | NPY-based Nanoprobes for Cancer Theranostics
Aiguo Wu, Ningbo Institute of Materials Technology & Engineering
Chinese Academy of Sciences, China | 14:00-14:30 |
| 8 | Polymer vesicles for biomedical applications
Jianzhong Du, Tongji University, China | 14:30-15:00 |

Chairs: Aiguo Wu, Lecture time: 25min/ person +5min discussion

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|-----------|---|-------------|
| 9 | Immunomodulatory Glucomannan Biomaterials
Chunming Wang, University of Macau, China | 15:00-15:30 |
| 10 | 3D Printing of Bioceramic-Based Scaffolds for Bone Tissue Engineering
Yufang Zhu, Shanghai Institute of Ceramics, Chinese Academy of Sciences, China | 15:30-16:00 |

Roundtable Discussion	16:00-17:00
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