上海交通大學
SHANGHAI JIAO TONG UNIVERSITY

中英国际低碳学院
China-UK Low Carbon College

International Conference on Carbon Neutrality (ICCN-2023)

2023碳中和国际学术会议

Conference Program

October 20-22, 2023
Shanghai, China

WELCOME

It is our pleasure to welcome you to the International Conference on Carbon Neutrality 2023 (ICCN-2023), which is hosted by Shanghai Jiao Tong University, and co-organized by the University of Edinburgh, University of Michigan (Global CO_2 Initiative), Tsinghua University, University of Birmingham, University of Oxford, and the Institute of Engineering Thermophysics of CAS.

Combating climate change deeply reshape the modern society and economy. ICCN-2023 is both stimulating and informative with a wide range of keynote and invited speakers from different fields related to carbon neutrality. Eight main sessions, including Hydrogen and Renewable Low Carbon Fuels, Advanced Energy Storage, Waste Carbon Resource Utilization, Climate Policy and Finance, Decarbonization and CCUS, Smart Energy towards Carbon Neutrality, Ecosystem Carbon Sink and Environmental Governance, and Green Building and Low Carbon City, will cover the most exciting and up-to-date academic researches and applications in carbon neutrality.

A major goal and feature of ICCN is to bring academic scientists, engineers, industry researchers, and practitioners together to exchange and share their experiences and scientific findings that could accelerate the progress towards carbon neutrality. Particularly, it will help young researchers to build their international research network.

Conference Chairs:

Changying Zhao, Shanghai Jiao Tong University

Neil Robertson, University of Edinburgh

Volker Sick, University of Michigan

Xiliang Zhang, Tsinghua University

Haisheng Chen, Institute of Engineering Thermophysics, CAS

Yulong Ding, University of Birmingham

Michael Obersteiner, University of Oxford

CONTENT

01 **INTRODUCTION OF ORGANIZERS**

01 Shanghai Jiao Tong University
02 China-UK Low Carbon College
03 Carbon Neutrality

05 **CONFERENCE ORGANIZATION**

05 Chair and Co-Chairs
06 International Scientific Committee
08 Organizing Committee

09 **PLENARY SPEAKERS**

13 **PROGRAM OVERVIEW**

16 **CONFERENCE PROGRAM**

Saturday, October 21st, 2023

16 Opening Ceremony and Plenary Lectures
17 Session 1: Hydrogen and Renewable Low Carbon Fuels
18 Session 2: Climate Policy and Finance
19 Session 3: Waste Carbon Resource Utilization
20 Session 4: Hydrogen and Renewable Low Carbon Fuels
21 Session 5: Climate Policy and Finance
22 Session 6: Waste Carbon Resource Utilization

Sunday, October 22nd, 2023

23 Session 7: Advanced Energy Storage
24 Session 8: Green Building and Low Carbon City
25 Session 9: Decarbonization and CCUS
26 Session 10: Advanced Energy Storage
27 Session 11: Green Building and Low Carbon City
28 Session 12: Decarbonization and CCUS
29 Session 13: Advanced Energy Storage
30 Session 14: Ecosystem Carbon Sink and Environmental Governance
31 Session 15: Smart Energy towards Carbon Neutrality
32 Session 16: Hydrogen and Renewable Low Carbon Fuels
33 Session 17: Decarbonization and CCUS
34 Session 18: Smart Energy towards Carbon Neutrality

35 **POSTER PRESENTATION**

39 **CONFERENCE AT A GLANCE**

43 **ARRIVAL INFORMATION**

INTRODUCTION OF ORGANIZERS

Shanghai Jiao Tong University

Shanghai Jiao Tong University is one of the famous institutions of higher learning with the longest history and reputation at home and abroad. It is a national key university directly under the Ministry of Education and jointly built with Shanghai Municipality. After 127 years of unremitting efforts, Shanghai Jiao Tong University has become a domestic first-class and internationally renowned university, and further defined the vision on constructing a “comprehensive, innovative and international” world-class university.

Shanghai Jiao Tong University (SJTU) was founded in Shanghai, China, in 1896, with the goal of cultivating talented professionals for the nation. Today, SJTU has become one of the world's top 100 universities and a key university directly under the administration of the Ministry of Education (MOE) of the People's Republic of China and co-constructed by MOE and Shanghai Municipal Government.

Over the 127 years of its history, SJTU has educated more than 400,000 talents for the country and the world, including Jiang Zemin, a former president of China, and Tsien Hsue-shen, China's "Father of Space Science." Other famous SJTU scholars include Wu Wenjun, a great master of mathematics and winner of the first National Supreme Award for Science and Technology, as well as Wang Zhenyi, winner of the Kettering Prize for cancer research. Over 200 members of the Chinese Academy of Sciences and the Chinese Academy of Engineering are SJTU alumni.

SJTU enjoys an increasingly high scientific research level and technological innovation level. In the recent 2 decades, SJTU led the country for the 14th consecutive year in terms of both the number of projects and the amount of funds received from the National Natural Science Foundation of China.

SJTU insists on enhancing educational internationalization, constantly improving its comprehensive strengths and global influence, exploring a future-oriented internationalization strategy, speeding up the implementation of a new international development plan, expanding overseas layout, building overseas centers, deepening strategic cooperation, and promoting in-depth exchange visits so as to make steady progress towards the goal of establishing a world-class institution of higher education.

Carrying forth the mission of preserving cultural heritage, seeking truth, bearing the responsibility of invigorating the Chinese nation and all humankind, today, this centennial university is sailing towards the goal of becoming a comprehensive, innovative, and internationalized world-class university. Shanghai Jiao Tong University belongs to China, but more so, it belongs to the world.

China-UK Low Carbon College

Established in 2017 through a joint effort between Shanghai Jiao Tong University and the University of Edinburg, the China-UK Low Carbon College (LCC) is a pioneering institution focused on low-carbon research and education. As the first low carbon college in China, LCC's vision is to cultivate world-class experts to help achieve carbon neutrality, drive breakthrough research on decarbonization solutions, and provide training for governments and businesses to transition to a net-zero carbon future.

Over the past six years since its founding, LCC has developed partnerships with over 20 leading universities worldwide, including close collaboration with the University of Edinburgh on dual-degree programs, lectures, workshops, and international conferences in the low-carbon area. Additionally, by bringing together over 500 industry partners and 200 experienced advisors from low-carbon companies, LCC provides students with practical, real-world training and potential research collaborations focused on decarbonization strategies.

LCC has also launched programs in Low Carbon Energy, Low Carbon Environment, and Hydrogen Energy and Energy Storage. LCC has also set up five research centers that focus on specific areas of sustainable energy systems and practices. These include: Carbon Finance and Carbon Management Center, Smart Energy and Big Data Centers, Renewables and Energy Storage Center, Carbon Capture, Utilization & Storage Center, Sustainable Technologies and Waste Resource Utilization Center.

Drawing on cutting-edge research from SJTU in energy, environment, finance, and management, as well as the expertise of renowned institutions like the University of Edinburgh and University College London, LCC aims to drive innovation for a low-carbon future and enable sustainable development in China and globally.



Carbon Neutrality

Carbon Neutrality was launched by **Shanghai Jiao Tong University and Springer Nature** in 2021 with an aim to achieve the global goal of carbon neutrality.

Carbon Neutrality is an international, multi-disciplinary open access journal in the areas of low carbon science, technology, and policy. The mission of Carbon Neutrality is to communicate the most cutting-edge technologies in carbon neutrality to the research community, policy decision-makers, and other types of stakeholders. The journal aims to establish itself as a flagship and leading international journal in the field of low carbon, publishing advanced and up-to-date original research and review papers with highest quality in the area, promoting information and knowledge exchange on frontier scientific research, and contributing to the sustainable development of the world. **It is an Open Access journal, yet the Article Processing Charges (APC) are fully waived. It has been indexed in Scopus and DOAJ. It is also a High-Start Journal of the Excellence Action Plan of China's STM Journals (中国科技期刊卓越行动计划高起点新刊).**

Carbon Neutrality welcomes submissions related to low carbon that include, but are not limited to:

1.Low Carbon Energy

· Integrated smart energy systems
· Renewables and energy storage
· Decarbonization of traditional energy
· Carbon capture, utilization and storage
· Low carbon energy materials

2.Ecosystem Carbon Sink and Environmental Governance

· Carbon sink and carbon sequestration of marine and terrestrial ecosystem
· Carbon footprint and emission monitoring
· Synergic governance of environment and climate change
· Waste resource recycling and utilization

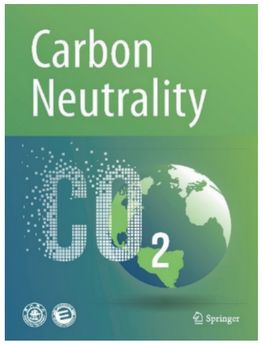
3.Carbon Finance, Management and Policy

· Carbon pricing theory and market practice
· Climate investment and finance
· Low carbon policy and governance
· Transition to carbon neutral economy

The Editor-in-Chief is Changying Zhao, Chair Professor and Dean of China-UK Low Carbon College of Shanghai Jiao Tong University. The Editorial Board is composed of more than 40 renowned, world-leading scientists around the world, including more than 10 Academicians and 26 international Editorial Board members. The research areas of the Editorial Board cover various disciplines, including energy, environment, carbon finance, carbon management, carbon sink, geology and climate change etc.

Carbon Neutrality welcomes researchers around the world to become our readers, authors or reviewers, and co-create a global research community aiming for a carbon neutral future！

If you have questions or need any assistance, please contact the editorial office:
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Journal website：www.springer.com/journal/43979
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CONFERENCE ORGANIZATION

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Shanghai Jiao Tong University, China

Co-Chairs:

Neil Robertson
University of Edinburgh, UK

Volker Sick
University of Michigan, USA

Xiliang Zhang
Tsinghua University, China

Haisheng Chen
Institute of Engineering Thermophysics, CAS, China

Yulong Ding
University of Birmingham, UK

Michael Obersteiner
University of Oxford, UK

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Zhen Huang, Shanghai Jiao Tong University, China

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PLENARY SPEAKER



Prof. Michael Obersteiner
University of Oxford, UK

Biography

Michael Obersteiner is the Director of the Environmental Change Institute, University of Oxford. His research experience stretches from biophysical modelling in the areas of ecosystems, forestry and agriculture to economics, finance and integrated assessment, and he works across ECI's research themes. Professor Obersteiner joins the institute from the International Institute for Applied Systems Analysis (IIASA), where he was the Director of the Ecosystems Services and Management (ESM) Program. He joined the IIASA Forestry Program in 1993 and has been leading and developing the ESM Program, which is currently the largest research program at IIASA, since 2011. Professor Obersteiner's background includes the fields of global terrestrial ecosystems and economics, having completed graduate studies both in Austria (BOKU University and Institute for Advanced Studies Vienna) and abroad (Columbia University, New York and Siberian Branch of the Russian Academy of Sciences, Novosibirsk). Under his leadership several national and international organizations, including inter alia the European Commission, WWF, OECD, and other national and international institutions have received science-based policy advice using quantitative modelling techniques. He is author of over 250 scientific papers and is a highly-cited researcher - ranking in the top 1% of citations in the Web of Science according to Clarivate research.

Robust climate policy instruments for climate neutrality and beyond

Abstract:

To address the imminent depletion of the remaining carbon budget for limiting global warming to 1.5 degrees Celsius, I will present results from several papers proposing intertemporal policy instruments that can support a net-negative carbon economy. Our approach involves implementing carbon removal obligations (CROs), which establish the responsibility of emitters to remove carbon dioxide from the atmosphere to compensate for carbon debt. We suggest using financial stress testing rules, carbon taxes and emission trading systems to finance these obligations. To mitigate risks, such as default by carbon debtors, we propose pricing atmospheric CO_2 storage through interest on carbon debt. Our analysis reveals that incorporating CROs into the global climate policy mix induces more ambitious near-term decarbonization efforts and facilitates earlier and less aggressive deployment of carbon dioxide removal technologies. We emphasize the importance of integrating CROs to achieve ambitious climate targets and ensure a fair distribution of mitigation efforts across generations. This approach addresses the need for robust climate mitigation pathways to account for uncertainties in the Earth system.

PLENARY SPEAKER



Prof. Zhen Huang
Shanghai Jiao Tong University, China

Biography

Academician of Chinese Academy of Engineering, Chair professor of Shanghai Jiao Tong University; Fellow of the International Combustion Institute; Vice president of the Central Committee of the China Association for Promoting Democracy, Member of the Standing Committee of the CPPCC National Committee. His research work focused on new energy and powertrain technology, combustion and air pollution control, and energy policy and strategy; has more than 300 publications in scientific journals and 3 academic works; Won the Second Prize of State Natural Science Award and the Second Prize of State Technological Invention Award; Chief editor of Frontier in Energy, and the editorial board member of Energy Sci. Eng. and Int. J. Engine Res.

Renewable synthetic fuel: turning carbon dioxide back into fuel

Abstract:

Future energy for carbon neutrality urgently needs a series of disruptive and transformative energy technologies as strategic support. In view of the energy supply, the key to energy revolution lies in zero carbonization power and zero carbonization fuel. Using renewable electricity as a source of energy supply, renewable synthetic fuels, such as hydrocarbons, alcohols or ether fuels, can be produced by reduction of carbon dioxide, via thermal catalysis, electrocatalysis, etc. As an advanced energy storage technology, renewable synthetic fuel can achieve the effective circulation of carbon element. Compared with physical and electrochemical energy storage, it has the advantages of high energy density, easy storage and transportation, and long-term energy storage. Using the surplus zero-carbon electricity to produce renewable fuel will entirely change the utilization pathways of energy, from traditional online “source-grid-load” to brand-new offline “source-storage-load”, which will greatly improve the utilization rate of renewable energy and the level of on-site consumption. Overall, renewable synthetic fuel is a disruptive technology which will make transportation and industrial fuels independent on fossil energy, realize net zero carbon emission and provide new solutions for energy strategic transformation and carbon neutrality goals.

PLENARY SPEAKER



Prof. Neil Robertson
University of Edinburgh, UK

Biography

Neil Robertson graduated from the University of Edinburgh and worked in FU Berlin, University of Wales and Imperial College London before returning to University of Edinburgh. He leads research on new molecular and nanomaterials for solar photovoltaics, photocatalysis, electrical energy storage materials and devices, with around 230 peer-reviewed papers in international journals. He is Fellow of the Royal Society of Chemistry (RSC) and Fellow of the Higher Education Academy. In 2014, as Director of the Scottish Institute for Solar Energy Research, he initiated and led development of the first ever Solar Vision for Scotland, launched at the Scottish Parliament in 2014. He was Energy Technology Partnership (Scotland) Theme Leader for Solar Energy 2012 – 2022; a member of the UK Solar Commission 2019 reporting on UK solar innovation; and a member of UK Solar Roadmapping exercise led by the Royce Institute 2020. He is currently President Elect of the RSC Materials Chemistry Community and has previously served as Associate Editor of RSC Journal of Materials Chemistry C, and as elected member of both Materials, and Dalton, Community Councils. He is Dean International Partnerships for Science and Engineering at the University of Edinburgh.

Solar photovoltaics: technologies and future prospects

Abstract:

Solar energy has, by many orders of magnitude, the largest potential of any renewable energy source. To achieve a carbon neutral world it therefore must become the largest energy technology on the planet. Solar photovoltaics (PV) also offers advantages such as good performance in cities where energy demand is high, and application in rural parts of the developing world where electricity grid infrastructure is lacking. The global PV capacity has seen exponential growth over the last few decades, yet still only provides a small minority of energy supply. The lecture will outline recent technological progress in photovoltaics, including established technologies like silicon PV as well as potential breakthrough technologies like perovskite PV, and will reflect on possible future global trends and priorities. The lecture aims to be widely accessible to a general audience, without the need for prior technical knowledge.

PLENARY SPEAKER



Prof. Xian Zhang
The Administrative Center for China's Agenda 21, Ministry of Science and Technology of China, China

Biography

Serving as the Director of Division of Social Affairs, the Administrative Center for China's Agenda 21, Ministry of Science and Technology of China, Dr. Zhang Xian is also the Director of the Climate Change Committee of Chinese Society for Sustainable Development, and the standing committee member of the 1st Session of the Youth Federation of central Party and State institutions. Dr. Zhang Xian has been selected for the National High-Level Talents Special Support Program and the Ten-Thousand Program for Young Talents, listed among the Top 2% of the World's Top Scientists (released by Stanford University), nominated for the Eni Award and won multiple provincial and ministerial awards. Over the past few years, Dr. Zhang Xian has been dedicated to the strategic research on major issues in the field of climate change and low-carbon technology development, meanwhile committed to promoting the development of CCUS technology in China and technology transfer South-South cooperation. A series of consultancy reports authored by Dr. Zhang Xian have been adopted by the General Office of the CPC Central Committee and the General Office of the State Council, and many of them were approved with comments by the Party and State leaders. Additionally, as the State representative, Dr. Zhang Xian has done a spectacular job in participating international climate change negotiations and multiple cooperation mechanisms, and conducted extensive cooperation with international organization and institutions. Based on his research and management experiences, Dr. Zhang Xian has published more than 80 papers and 20 books, taken a lead or participated in more than 40 national and provincial/ministerial research projects, as well as a number of international bilateral and multilateral cooperation projects. He has been engaged in organizing the research on The Roadmap for China's Carbon Neutrality Technology Development, taking the lead in compiling The Roadmap for China's Carbon Capture, Utilization and Storage Technologies, and the lead author of the CCUS technologies assessment chapters of China's 3rd National Climate Change Assessment Report, China's 4th National Climate Change Assessment Report and Opportunities for Hydrogen Production with CCUS in China.

Prospect on CCUS technology development under the carbon neutrality goal

Abstract:

Carbon dioxide capture, utilization and storage (CCUS) technology is an indispensable part of China's technology portfolio to achieve the goals of carbon peak and carbon neutrality. It can not only achieve near-zero emissions of fossil energy utilization, but also promote deep decarbonization of industries that are difficult to reduce emissions, such as steel and cement. Moreover, it is of great significance to ensure the safety and flexibility of the power system under the carbon constraint condition and offset the difficult-to-reduce greenhouse gas emissions. CCUS technology has developed rapidly in China and already has the engineering capability of large-scale capture, utilization and storage, which is equivalent to the international development level. The capture technologies are transitioning from the first generation to the second generation; transportation technologies has been developed from the traditional tank truck/ship transportation mode to the land and submarine pipeline transportation mode; utilization technologies expand from the early geological utilization to chemical and biological utilization; CO_2 storage has also achieved increasing attention. However, CCUS in China still lags in project scale, technology integration, submarine storage and industrial applications, facing challenges such as high technical cost, urgent deployment needs, poor matching of source and sinks, and lack of business model and incentive policies. In the future, China's CCUS technology development goal is to build low-cost, low-energy, safe and reliable technology systems and clusters, it is suggested to strengthen the advance deployment of CCUS technology research and development, promote the whole chain integration demonstration, accelerate the pipe network and infrastructure construction, and improve the fiscal and tax incentive policies and laws and regulations system to promote the commercial development of CCUS.

PROGRAM OVERVIEW

Friday, October 20th, 2023
Longemont Shanghai Hotel

Time	Content	
13:30-23:00	The lobby of Longemont Shanghai Hotel	**Onsite Registration**
17:30-20:30	All Day Dining Restaurant 2nd floor of Longemont Shanghai Hotel	**Reception Buffet**

PROGRAM OVERVIEW

Saturday, October 21st, 2023
Jade Ballroom, 4th floor of Longemont Shanghai Hotel

Time	Content
08:00-08:15	**Group Photo (Jade Ballroom C)**
08:15-09:00	**Opening Ceremony & Welcome Speech**
09:00-09:10	**Introduction to *Carbon Neutrality***
09:10-12:00	**Plenary Lectures**
09:10-09:50	Plenary Lecture 1
09:50-10:30	Plenary Lecture 2
10:30-10:40	Coffee Break
10:40-11:20	Plenary Lecture 3
11:20-12:00	Plenary Lecture 4
12:00-13:30	**Lunch Break, All Day Dining Restaurant, 2nd floor of Longemont Shanghai Hotel**
13:30-16:30	**Oral Presentations Saturday, October 21st, 2023, Jade Ballroom, 4th floor of Longemont Shanghai Hotel**
13:30-14:55	Session 1- Hydrogen and Renewable Low Carbon Fuels （Jade Ballroom A）
	Session 2- Climate Policy and Finance （Jade Ballroom B）
	Session 3- Waste Carbon Resource Utilization （Jade Ballroom C）
14:55-15:10	Coffee Break
15:10-16:30	Session 4- Hydrogen and Renewable Low Carbon Fuels （Jade Ballroom A）
	Session 5- Climate Policy and Finance （Jade Ballroom B）
	Session 6- Waste Carbon Resource Utilization （Jade Ballroom C）
16:30-18:00	**Poster Session**
18:00-20:00	**Welcome Banquet Dragon Ballroom B, 6th floor of Longemont Shanghai Hotel**

PROGRAM OVERVIEW

Sunday, October 22nd, 2023
Jade Ballroom, 4th floor of Longemont Shanghai Hotel

Time	Content
8:30-10:05	Session 7-Advanced Energy Storage （Jade Ballroom A）
	Session 8-Green Building and Low Carbon City （Jade Ballroom B）
	Session 9-Decarbonization and CCUS （Jade Ballroom C）
10:05-10:20	Coffee Break
10:20-12:00	Session 10-Advanced Energy Storage （Jade Ballroom A）
	Session 11-Green Building and Low Carbon City （Jade Ballroom B）
	Session 12-Decarbonization and CCUS （Jade Ballroom C）
12:00-13:30	Lunch Break All Day Dining Restaurant, 2nd floor of Longemont Shanghai Hotel
13:30-15:00	Session 13-Advanced Energy Storage （Jade Ballroom A）
	Session 14-Ecosystem Carbon Sink and Environmental Governance （Jade Ballroom B）
	Session 15-Smart Energy towards Carbon Neutrality （Jade Ballroom C）
15:00-15:15	Coffee Break
15:15-17:00	Session 16- Hydrogen and Renewable Low Carbon Fuels （Jade Ballroom A）
	Session 17-Decarbonization and CCUS （Jade Ballroom B）
	Session 18-Smart Energy towards Carbon Neutrality （Jade Ballroom C）
17:00-17:30	Closing Ceremony and Awarding Sunday, October 22nd, 2023, Jade Ballroom, 4th floor of Longemont Shanghai Hotel

CONFERENCE PROGRAM

Saturday, October 21st, 2023
Jade Ballroom, 4th floor of Longemont Shanghai Hotel

Time		Content
08:00-08:15		**Group Photo**
08:15-08:50		**Opening Ceremony & Welcome Speech** **Host: Changying Zhao, Neil Robertson, Yulong Ding, Michael Obersteiner**
08:15-08:20		**Changying Zhao (Welcome and Introduction to VIP)** Conference Chair, Editor-in-Chief of Carbon Neutrality Dean of China-UK Low Carbon College, Shanghai Jiao Tong University
08:20-08:25		**Xuemin Xu** Chair Professor, Vice President, Shanghai Jiao Tong University
08:25-08:30		**James Smith (Video Message)** Professor, Vice-Principal International, the University of Edinburgh
08:30-08:35		**Huaqing Xu** Director-General, National Center for Climate Change Strategy and International Cooperation
08:35-08:40		**Wenlan Xie** Deputy Director, Science and Technology Commission of Shanghai Municipality
08:40-08:45		**Minglin Zhu** Deputy Director, Shanghai Municipal Development & Reform Commission
08:45-08:50		**Qizhou Wu** Deputy Director, Shanghai Municipal Bureau of Ecology and Environment
08:50-09:00		**Break**
09:00-09:10		**Introduction to *Carbon Neutrality*, Changying Zhao**
09:10-12:00		**Plenary Lectures (Chairs: Changying Zhao, Yulong Ding)**
09:10-09:50	Plenary Lecture 1	Prof. Michael Obersteiner, University of Oxford Title: Robust climate policy instruments for climate neutrality and beyond
09:50-10:30	Plenary Lecture 2	Prof. Zhen Huang, Shanghai Jiao Tong University Title: Renewable synthetic fuel: turning carbon dioxide back into fuel
10:30-10:40		Coffee Break
10:40-11:20	Plenary Lecture 3	Prof. Neil Robertson, University of Edinburgh Title: Solar photovoltaics: technologies and future prospects
11:20-12:00	Plenary Lecture 4	Prof. Xian Zhang, The Administrative Center for China's Agenda 21, Ministry of Science and Technology of China Title: Prospect on CCUS technology development under the carbon neutrality goal
12:00-13:30		Lunch Break All Day Dining Restaurant, 2nd floor of Longemont Shanghai Hotel

CONFERENCE PROGRAM

Session 1: Hydrogen and Renewable Low Carbon Fuels

Chairs: Xia Long, Zheng Xing
13:30-14:55, Saturday, October 21st
Location: Jade Ballroom A, 4th floor of Longemont Shanghai Hotel

13:30-13:55	**Keynote Lecture**
Title	Research and development on catalysts and MEAs for PEM fuel cells and water electrolyzers
Authors	**Junliang Zhang**
Affiliation	Shanghai Jiao Tong University
13:55-14:10	**Invited Talk**
Title	Thermal radiation and effective thermal conductivity in porous/particulate media: local and non-local heat transfer
Authors	**Junming Zhao**
Affiliation	Harbin Institute of Technology
14:10-14:25	**Invited Talk**
Title	Boosting photochemical hydrogen fuel production via construction of coherent interface between photocatalytic and electrocatalytic transition metal sulfides
Authors	Yuexing Chen, Lilac Amirav, Shihe Yang, **Zheng Xing**
Affiliation	Sun Yat-sen University - Zhuhai Campus
14:25-14:35	**Oral Presentation**
Title	Combustion characteristics of partially premixed swirl-stabilised flames with NH_3/CH_4
Authors	**Shini Lai,** Danan Chen, Xinfei Chen, Xing Li, Hongyu Huang, Jun Li
Affiliation	Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences
14:35-14:45	**Oral Presentation**
Title	Biomimetic leaf catalyst bed structure for solar membrane eeactor aiming at efficient hydrogen production and separation
Authors	**Xinyuan Tang,** Weiwei Yang, Xu Ma, Yaling He
Affiliation	Xi'an Jiaotong University
14:45-14:55	**Oral Presentation**
Title	Experimental study on laminar burning velocity of n-dodecane/ammonia premixed flame
Authors	**Danan Chen,** Junqing Zhang, Jun Li, Xing Li, Xing Li, Hongyu Huang, Noriyuki Kobayashi
Affiliation	Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences
14:55-15:10	**Coffee Break**

Saturday, October 21st, 2023

CONFERENCE PROGRAM

Session 2: Climate Policy and Finance

Chairs: Yuquan Zhang, Chuang Wen
13:30-14:35, Saturday, October 21st
Location: Jade Ballroom B, 4th floor of Longemont Shanghai Hotel

13:30-13:55	**Keynote Lecture**
Title	The development and challenges of climate investment and financing pilot
Authors	**Jin Li**
Affiliation	Shanghai Environmental & Energy Exchange
13:55-14:05	**Oral Presentation**
Title	The impact of carbon allowance allocation methods on enterprise emissions: a study of China emissions trading system
Authors	Wenjie Ma, **Mingrui Sun**
Affiliation	Shanghai University of Finance and Economics
14:05-14:15	**Oral Presentation**
Title	Carbon financial system construction under the background of dual-carbon targets: current situation, problems and suggestions
Authors	**Yedong Zhang**, Han Hua
Affiliation	Fudan University
14:15-14:25	**Oral Presentation**
Title	Explore the performance of high-emitting countries / regions in multilateral climate negotiations: a study based on RICE-N and climate club theory
Authors	**Wubo Dai,** Lei Zhang, Linfeng Zheng, Tianqi Wang, Lei Zhu
Affiliation	Shanghai Jiao Tong University
14:25-14:35	**Oral Presentation**
Title	A review contribution to renewable energy policy research: patterns, evolution, and frontiers
Authors	**Gabriel Owusu**
Affiliation	Shanghai Jiao Tong University
14:55-15:10	**Coffee Break**

CONFERENCE PROGRAM

Session 3: Waste Carbon Resource Utilization

Chairs: Yulian He, Chaoyang Zhang
13:30-14:50, Saturday, October 21st
Location: Jade Ballroom C, 4th floor of Longemont Shanghai Hotel

13:30-13:55	**Keynote Lecture**
Title	Catalyst design for CO_2 hydrogenation
Authors	**Ning Yan**
Affiliation	National University of Singapore
13:55-14:10	**Invited Talk**
Title	Methane and carbon dioxide conversions via heterogenous thermal catalysis
Authors	**Yulian He**
Affiliation	Shanghai Jiao Tong University
14:10-14:20	**Oral Presentation**
Title	Experimental study on a cascaded thermal storage system with high-temperature encapsulated phase change materials
Authors	**Chaoyang Zhang**, X. Hu, F. Hong
Affiliation	Shanghai Jiao Tong University
14:20-14:30	**Oral Presentation**
Title	Pilot study on co-fermentation of food waste and municipal sludge to prepare organic acids to improve wastewater denitrification
Authors	Xianbao Xu, Xia Gu, Chengyao Dong, Gang Xue, **Xiang Li**
Affiliation	Donghua University
14:30-14:40	**Oral Presentation**
Title	Chitin valorization to high-activity antifungal oligosaccharides
Authors	**Jiong Cheng**, Ning Yan, Fangming Jin
Affiliation	Shanghai Jiao Tong University
14:40-14:50	**Oral Presentation**
Title	Enhancing resource utilization through microalgae-based perishable waste treatment
Authors	**Weizhao Meng**, Cheng Qian, Jingyan Hu, Weiqi Fu
Affiliation	Zhejiang University
14:55-15:10	**Coffee Break**

CONFERENCE PROGRAM

Session 4: Hydrogen and Renewable Low Carbon Fuels

Chairs: Fang Song, Jun Yan
15:10-16:30, Saturday, October 21st
Location: Jade Ballroom A, 4th floor of Longemont Shanghai Hotel

15:10-15:25	**Invited Talk**
Title	Gas generation characteristics of lithium-ion batteries in thermal runaway at different charge states
Authors	**Dong Han**
Affiliation	Shanghai Jiao Tong University
15:25-15:40	**Invited Talk**
Title	Catalytic active sites determination and charge transport of transition metal oxides for oxygen evolution reaction
Authors	**Fang Song**
Affiliation	Shanghai Jiao Tong University
15:40-15:50	**Oral Presentation**
Title	Enhanced heterojunction structure of TiO_2, Ni_2O_3 and MWCNT for photocatalysis hydrogen generation
Authors	Jiayou Mou, Chenxi Wang, **Yong Ren**
Affiliation	University of Nottingham - Ningbo China
15:50-16:00	**Oral Presentation**
Title	A study on the reaction performance of Ni-based oxygen carriers in ammonia chemical looping combustion
Authors	**Bingxin Yan**, Xing Li, Xinfei Chen, Hongyu Huang, Li Jun
Affiliation	Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences
16:00-16:10	**Oral Presentation**
Title	Oxygen diffusion mechanism in Ionomer film of proton exchange membrane fuel cells
Authors	**Jiabin You**, Xiaojing Cheng, Huiyuan Li, Guanghua Wei, Xiaohui Yan, Shuiyun Shen, Junliang Zhang
Affiliation	Shanghai Jiao Tong University
16:10-16:20	**Oral Presentation**
Title	Evaluation of phase change and drag force models for liquid ammonia spray under engine conditions
Authors	**Junqing Zhang**, Xinfei Chen, Lisheng Deng, Zhen Huang, Hongyu Huang, Jun Li
Affiliation	Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences
16:20-16:30	**Oral Presentation**
Title	Unraveling the effects of carbon corrosion on local oxygen transport resistance in ultra-low Pt loading PEMFCs
Authors	**Huiyuan Li**, Xiaojing Cheng, Jiabin You, Xiaohui Yan, Shuiyun Shen, Junliang Zhang
Affiliation	Shanghai Jiao Tong University
16:30-18:00	**Poster Session**
18:00-20:00	**Welcome Banquet** **Dragon Ballroom B, 6th floor of Longemont Shanghai Hotel**

CONFERENCE PROGRAM

Session 5: Climate Policy and Finance

Chairs: Fan Tong, Lin Yao
15:10-16:20, Saturday, October 21st
Location: Jade Ballroom B, 4th floor of Longemont Shanghai Hotel

15:10-15:25	**Invited Talk**
Title	A review of hydrogen production pathways, cost and decarbonization potential
Authors	**Fan Tong,** Jeremy Michalek, Inês L. Azevedo
Affiliation	Beihang University
15:25-15:40	**Invited Talk**
Title	Potential impacts of CBAM on China's exports: an exploration using CGE
Authors	**Yuquan Zhang**, Meijiang Liu, Xiaru Hu, Biao Zheng
Affiliation	Shanghai Jiao Tong University
15:40-15:50	**Oral Presentation**
Title	Are high emissions necessarily high well-being? Evidence from China family panel studies
Authors	**Jiaming Yu,** Xinzhu Zheng
Affiliation	China University of Petroleum-Beijing
15:50-16:00	**Oral Presentation**
Title	Forecasting carbon emissions in New York State using different machine learning algorithms
Authors	**Glukhova Ekaterina,** Jia Li
Affiliation	Shanghai Jiao Tong University
16:00-16:10	**Oral Presentation**
Title	Assessing the impacts of demand response on the operation in competitive electricity markets under carbon market coupling: policy insights for the development of sustainable power systems
Authors	**Guangchuan Liu,** Bo Wang
Affiliation	Beijing Institute of Technology
16:10-16:20	**Oral Presentation**
Title	National strategies to achieve carbon neutrality in the energy sector
Authors	**Yen Yang LAW,** Xin Liang
Affiliation	Shanghai Jiao Tong University
16:30-18:00	**Poster Session**
18:00-20:00	**Welcome Banquet** **Dragon Ballroom B, 6th floor of Longemont Shanghai Hotel**

Saturday, October 21st, 2023

CONFERENCE PROGRAM

Session 6: Waste Carbon Resource Utilization

Chairs: Tongtong Zhang, Heng Zhong
15:10-16:35, Saturday, October 21st
Location: Jade Ballroom C, 4th floor of Longemont Shanghai Hotel

15:10-15:25	**Invited Talk**
Title	Hydrothermal conversion of CO_2 into value-added chemicals
Authors	**Heng Zhong,** Fangming Jin
Affiliation	Shanghai Jiao Tong University
15:25-15:40	**Invited Talk**
Title	Phase change behaviour of supercritical carbon dioxide (sCO_2) in a centrifugal compressor for the Brayton cycle
Authors	**Chuang Wen**
Affiliation	University of Reading
15:40-15:55	**Invited Talk**
Title	Integration of liquid air energy storage with ammonia synthesis process for resource efficiency and cost effectiveness
Authors	**Tongtong Zhang**
Affiliation	University of Birmingham
15:55-16:05	**Oral Presentation**
Title	Two dimensional CeO_2/g-C_3N_4 nanosheets for the effective photocatalytic reduction of CO_2 to CO
Authors	Sicong Shao, Zhushuo Li, Bingqian Jia, Chen Cui, **Jun Fang,** Yang Yang
Affiliation	Nanjing Tech University
16:05-16:15	**Oral Presentation**
Title	Preparation of high-performance pseudocapacitor material by using spent lithium-ion battery anode graphite via mechanochemical pretreatment
Authors	**Lujie Dai,** Jia Li, Bang Li, Zhenming Xu
Affiliation	Shanghai Jiao Tong University
16:15-16:25	**Oral Presentation**
Title	Is the combination of bionics and microfluidics an effective way to achieve efficient catalysis?
Authors	**Kai Lin,** Ao Xia, Yun Huang, Xianqing Zhu, Xun Zhu, Kaiyong Cai, Zidong Wei, Qiang Liao
Affiliation	Chongqing University
16:25-16:35	**Oral Presentation**
Title	Boosting 3-acetamido-5-acetylfuran production from N-acetyl-D-glucosamine in γ-valerolactone by a dissolution-dehydration effect
Authors	**Xinlei Ji,** Jia Kou, Gökalp Gözaydın, Xi Chen
Affiliation	Shanghai Jiao Tong University
16:35-18:00	**Poster Session**
18:00-20:00	**Welcome Banquet** **Dragon Ballroom B, 6th floor of Longemont Shanghai Hotel**

CONFERENCE PROGRAM

Session 7: Advanced Energy Storage

Chairs: Xianglei Liu, Yu Qiu
08:30-09:55, Sunday, October 22nd
Location: Jade Ballroom A, 4th floor of Longemont Shanghai Hotel

08:30-08:55	**Keynote Lecture**
Title	Redox-mediated electrified chemistry for carbon-neutral energy applications
Authors	**Qing Wang**
Affiliation	National University of Singapore
08:55-09:10	**Invited Talk**
Title	Solar thermochemical CO_2-to-fuel conversion
Authors	**Xianglei Liu**
Affiliation	Nanjing University of Aeronautics and Astronautics
09:10-09:25	**Invited Talk**
Title	A novel composite phase change material supported by oriented carbon fibers for solar thermal energy conversion and storage
Authors	Pengfei Zhang, Yilin Wang, Qing Li, **Yu Qiu**
Affiliation	Central South University
09:25-09:35	**Oral Presentation**
Title	Experimental study of anisotropic thermal conductivity of Ti_3C_2Tx MXene film
Authors	**Xiaona Huang,** Jiaxin Gu, Yanan Yue
Affiliation	Wuhan University
09:35-09:45	**Oral Presentation**
Title	Numerical optimization of inclined fin angles in nanoparticle-enhanced phase change material energy storage system
Authors	Benli Peng, **Meizhuting Qiu,** Xinyu Xu, Yong Zhou, Rong Zhang, Fengmin Su
Affiliation	Dalian Maritime University
09:45-09:55	**Oral Presentation**
Title	Performance of isothermal compressed air storage system with droplets injection
Authors	**Ziyu Gao,** Xinjing Zhang, Xiaoyu Li, Bingqian Zhou, Yujie Xu, Haisheng Chen
Affiliation	Institute of Engineering Thermophysics Chinese Academy of Sciences
10:05-10:20	**Coffee Break**

CONFERENCE PROGRAM

Session 8: Green Building and Low Carbon City

Chairs: Zhi Cao, Jia Li
08:30-09:40, Sunday, October 22nd
Location: Jade Ballroom B, 4th floor of Longemont Shanghai Hotel

08:30-08:45	**Invited Talk**
Title	Managing material flows and stocks for circular and sustainable built environment
Authors	**Zhi Cao**
Affiliation	Nankai University
08:45-09:00	**Invited Talk**
Title	Analysis of spectral regulation and thermal degradation on structured emitter for thermophotovoltaic system
Authors	**Qilin Cai**
Affiliation	Soochow University
09:00-09:10	**Oral Presentation**
Title	Research on dynamic simulations of carbon emission peak in the urban public building sector ——take Shenzhen as an example
Authors	**Yawei Du,** Yujia Wu, Qing Ye, Keyang Yang
Affiliation	Shenzhen Development Research Center for Real Estate and Urban Construction
09:10-09:20	**Oral Presentation**
Title	Performance analysis of solar-driven rotary desiccant wheel air conditioning system in GuangZhou
Authors	**Shusen Lin,** Tao Zeng, Lisheng Deng, Hongyu Huang
Affiliation	Guangzhou Institute of Energy Conversion
09:20-09:30	**Oral Presentation**
Title	Basic calculation principles of electricity price in smart grid based on LCC and LCA method
Authors	**Jingxin Xi,** Bo Zhang
Affiliation	Renmin University of China
09:30-09:40	**Oral Presentation**
Title	Study on the development status of hydrogen fuel cell buses and the path to constructing a green transportation system: a case study of Beijing
Authors	Dongyue Zhang, **Weifeng Wang**, Yunrui Zhao, Yi Luo, Junhong Hao
Affiliation	North China Electric Power University
10:05-10:20	**Coffee Break**

CONFERENCE PROGRAM

Session 9: Decarbonization and CCUS

Chairs: Junming Zhao, Yaoxin Zhang 08:30-09:50, Sunday, October 22nd Location: Jade Ballroom C, 4th floor of Longemont Shanghai Hotel	
08:30-08:55	Keynote Lecture
Title	Behaviors of hydrate formation under liquid CO_2 in seawater with different organic matters
Authors	**Shuanshi Fan**
Affiliation	South China University of Technology
08:55-09:10	Invited Talk
Title	Investigation on CO_2 sequestration as hydrates in marine sediments
Authors	Xuejian Liu, Hailin Huang, Yan Li, **Zhenyuan Yin**
Affiliation	Institute for Ocean Engineering, Shenzhen International Graduate School, Tsinghua University
09:10-09:20	Oral Presentation
Title	Converting natural gas into longer-chain hydrocarbons through multi-point non-thermal plasma discharge
Authors	**Yu Miao**, Tianhao Zhu, Goran Jovanovic, Alex Yokochi, Annette von Jouanne
Affiliation	East China University of Science and Technology
09:20-09:30	Oral Presentation
Title	Pore-scale study of multiphase reactive flow with mineral dissolution during CO_2 geological sequestration
Authors	**Chuangde Zhang**, Zi Wang, Li Chen, Wenquan Tao
Affiliation	Xi'an Jiaotong University
09:30-09:40	Oral Presentation
Title	Performance characterization of methane-assisted carbon dioxide reduction on Ce-doped Ni-Al_2O_3 catalytic system
Authors	**Xu Ma**, Weiwei Yang, Xinyuan Tang, Yaling He
Affiliation	Xi'an Jiaotong University
09:40-09:50	Oral Presentation
Title	Kinetics of carbon dioxide hydrate formation in wet sawdust bed
Authors	**Duo Zhang**, Liang Yang, Daoping Liu, Zhitao Wang, Peng Wang
Affiliation	University of Shanghai for Science and Technology
10:05-10:20	**Coffee Break**

CONFERENCE PROGRAM

Session 10: Advanced Energy Storage

Chairs: Xinjing Zhang, Weiwei Yang 10:20-12:00, Sunday, October 22nd Location: Jade Ballroom A, 4th floor of Longemont Shanghai Hotel	
10:20-10:45	Keynote Lecture
Title	Enabling competing energy storage technologies: towards a carbon-neutral power system
Authors	**Aristides Kiprakis**
Affiliation	University of Edinburgh
10:45-11:00	Invited Talk
Title	Dynamic analysis of compressed air energy storage system and economic evaluation
Authors	**Xinjing Zhang**
Affiliation	Institute of Engineering Thermophysics, CAS
11:00-11:10	Oral Presentation
Title	Redox-mediated water splitting for decoupled H_2 production
Authors	Jianing Zhang, Jian Li, Jinpeng Cao, **Feifei Zhang**
Affiliation	Jilin University
11:10-11:20	Oral Presentation
Title	Approximate relation of radiation distribution function between particles and wall in particulate media
Authors	**Baokun Liu**, Junming Zhao
Affiliation	Yancheng Institute of Technology
11:20-11:30	Oral Presentation
Title	Numerical analysis of pseudo-/condensation effects of supercritical CO_2 flow through a Laval nozzle
Authors	**Huimei Wang**, Lin Chen
Affiliation	Institute of Engineering Thermophysics Chinese Academy of Sciences
11:30-11:40	Oral Presentation
Title	A multilayer-packed-bed-based sensible heat store for liquid air energy storage efficiency enhancement
Authors	**Lejin Xu**, Abdalqader Ahmad, Tongtong Zhang, Yulong Ding
Affiliation	University of Birmingham
11:40-11:50	Oral Presentation
Title	Kilowatts continuous solar-driven thermochemical energy storage reactor
Authors	**Chao Song**, Xianglei Liu
Affiliation	Nanjing University of Aeronautics and Astronautics
11:50-12:00	Oral Presentation
Title	A method to inhibit disproportionation of Mn^{3+} for low-cost Mn−Fe all-flow battery
Authors	**Jing Wu**, Jing Yang, Zhi Yi Leong, Feifei Zhang, Haiqiang Deng, Gang Feng Ouyang, Juezhi Yu
Affiliation	Sun Yat-sen University
12:00-13:30	**Lunch Break** **All Day Dining Restaurant, 2nd floor of Longemont Shanghai Hotel**

CONFERENCE PROGRAM

Session 11: Green Building and Low Carbon City

Chairs: Yuan Xue, Kangkang Tong
10:20-11:25, Sunday, October 22nd
Location: Jade Ballroom B, 4th floor of Longemont Shanghai Hotel

10:20-10:35	**Invited Talk**
Title	Analytical tools in urban carbon-neutral actions: from theories to applications
Authors	**Kangkang Tong**
Affiliation	Shanghai Jiao Tong University
10:35-10:45	**Oral Presentation**
Title	Exploring the use of algorithms and machine learning in carbon-neutral urban design
Authors	**Anqi Dai**
Affiliation	University College London
10:45-10:55	**Oral Presentation**
Title	Research on the development status and promotion feasibility of ultra low energy consumption buildings in Beijing
Authors	**Dongyue Zhang,** Teng Wang, Linqian Guo
Affiliation	North China Electric Power University
10:55-11:05	**Oral Presentation**
Title	Towards energy autonomy: a systematic approach for design and optimization of the energy system of industrial parks
Authors	**João Graca Gomes,** Tianqi Yang, Jiang Juan
Affiliation	Shanghai Investigation, Design and Research Institute
11:05-11:15	**Oral Presentation**
Title	Development of regenerative heat exchanger for decentralized ventilation
Authors	**Zhiyong Wu,** I.V. Mezentsev, Lixin Yang, Zhifeng Wang
Affiliation	The Key Laboratory of Solar Thermal Energy and Photovoltaic System, IEE-CAS
11:15-11:25	**Oral Presentation**
Title	Dynamic simulation of a solar assisted desiccant wheel and adsorption cooling system under subtropical climatic condition
Authors	**Meiling Jiang,** Shusen Lin, Tao Zeng, Lisheng Deng, Jun Li, Hongyu Huang
Affiliation	Guangdong University of Technology
12:00-13:30	**Lunch Break** **All Day Dining Restaurant, 2nd floor of Longemont Shanghai Hotel**

CONFERENCE PROGRAM

Session 12: Decarbonization and CCUS

Chairs: Li Chen, Lei Hou
10:20-11:30, Sunday, October 22nd
Location: Jade Ballroom C, 4th floor of Longemont Shanghai Hotel

10:20-10:35	**Invited Talk**
Title	Pore-scale study of multiphase reactive flow during CO_2 sequestration
Authors	**Li Chen**
Affiliation	Xi'an Jiao Tong University
10:35-10:50	**Invited Talk**
Title	Oxidative desulfurization for blast-furnace gas
Authors	**Hongyun Yang**
Affiliation	Xiangtan University
10:50-11:00	**Oral Presentation**
Title	Comprehensive investigation of parameters affecting CO_2 sequestration by steel slag using machine learning
Authors	**Bingyang He,** Xingyu Zhu, Daqiang Cang, Lingling Zhang
Affiliation	University of Science and Technology Beijing
11:00-11:10	**Oral Presentation**
Title	Near-critical CO_2 boundary heat transfer inside a closed chamber with top heating: a preliminary interferometric visualization
Authors	**Rui Zhang,** Yizhi Zhang, Lin Chen
Affiliation	Institute of Engineering Thermophysics, Chinese Academy of Sciences
11:10-11:20	**Oral Presentation**
Title	Photocatalytic reduction of CO_2 to CH_4 over copper modified g-C_3N_4 with enhanced yield under visible light irradiation
Authors	Siyu Lou, **Keran Jiao,** Pengfei Song, Yongjie Wang, Jiaqi Zhu
Affiliation	Harbin Institute of Technology, Shenzhen
11:20-11:30	**Oral Presentation**
Title	Manipulating triple-phase interfacial CO_2 electrolysis using a Taylor flow microfluidic electrolyser
Authors	**Tong Shi,** Dong Liu, Ying Zhang, Hao Feng, Qiang Li
Affiliation	Nanjing University of Science and Technology
12:00-13:30	**Lunch Break** **All Day Dining Restaurant, 2nd floor of Longemont Shanghai Hotel**

CONFERENCE PROGRAM

Session 13: Advanced Energy Storage

Chairs: Yao Zhao, Ya Ji
13:30-15:00, Sunday, October 22nd
Location: Jade Ballroom A, 4th floor of Longemont Shanghai Hotel

13:30-13:55	Keynote Lecture
Title	Challenges and solutions for advanced compressed air energy storage system
Authors	**Haisheng Chen**
Affiliation	Institute of Engineering Thermophysics, CAS
13:55-14:10	Invited Talk
Title	Progress in latent heat storage and carnot battery
Authors	**Yao Zhao**
Affiliation	Shanghai Jiao Tong University
14:10-14:20	Oral Presentation
Title	Solar-thermal coupling model for Mn-Fe particles in a controllable-flow particle receiver
Authors	**Peiwang Zhu**, Di Gan, Gang Xiao
Affiliation	Zhejiang University
14:20-14:30	Oral Presentation
Title	Integrating sandwich-structured design into electrode coating process with improved electrochemical performance and thermal conductivity
Authors	**Baojia He**, Mahya Rahbar, Chunchi Lu, Xinwei Wang, Ying Wang, Shen Xu, Yanfeng Xing, Bo Huang
Affiliation	Shanghai University of Engineering Science
14:30-14:40	Oral Presentation
Title	Investigation of electricity charge/discharge performance of Carnot battery systems with cascaded latent heat and cold stores
Authors	**Jiaxing Huang**, Yao Zhao, Jian Song
Affiliation	Shanghai Jiao Tong University
14:40-14:50	Oral Presentation
Title	Hybrid solution for accurate modeling of lithium-ion batteries
Authors	**Xinyi Zheng**, Weiji Han
Affiliation	Shanghai Jiao Tong University
14:50-15:00	Oral Presentation
Title	Development and characterization of hydrophilic modified activated carbon based $SrBr_2$ composites for low-grade thermal energy storage
Authors	**Jiatao Wu**, Shusen Lin, Tao Zeng, Jun Li, Hongyu Huang
Affiliation	Guangzhou Institute of Conversion,Chinese Academy of Science
15:00-15:15	**Coffee Break**

CONFERENCE PROGRAM

Session 14: Ecosystem Carbon Sink and Environmental Governance

Chairs: Xiangyin Ni, Tao Ren
13:30-14:55, Sunday, October 22nd
Location: Jade Ballroom B, 4th floor of Longemont Shanghai Hotel

13:30-13:45	Invited Talk
Title	Soil organic carbon formation controlled by plant litter carbon input
Authors	**Xiangyin Ni**
Affiliation	Fujian Normal University
13:45-14:00	Invited Talk
Title	Farming seaweed for carbon removal? A life cycle analysis approach
Authors	**Ji Li**
Affiliation	Shanghai Jiao Tong University
14:00-14:15	Invited Talk
Title	Machine learning based model for fast retrieval of XCO_2
Authors	**Tao Ren**
Affiliation	Shanghai Jiao Tong University
14:15-14:25	Oral Presentation
Title	Life cycle assessment of secondary use and physical recycling of lithium-ion batteries retired from electric vehicles in China
Authors	**Hanxue Yang**, Guanhua Zhang, Xiaoyu Yan
Affiliation	University of Shanghai for Science and Technology
14:25-14:35	Oral Presentation
Title	Carbon footprint analysis of specialty paper production in China
Authors	**Changzhi Lai**, Kai Fan, Qilin Cai, Qing Ye, Xi Wu
Affiliation	Soochow University
14:35-14:45	Oral Presentation
Title	City carbon sinks in the vision of carbon neutrality-interplay between urban greening and ozone
Authors	**Zhen Li**, Dongliang Zhao
Affiliation	Southeast University
14:45-14:55	Oral Presentation
Title	Carbon emissions pressure and corporate ESG performance
Authors	**Bingqian Tu**, Jingqi Dang
Affiliation	Zhejiang University
15:00-15:15	**Coffee Break**

CONFERENCE PROGRAM

Session 15: Smart Energy towards Carbon Neutrality

Chairs: Shenghong Ju, Shangchao Lin 13:30-15:00, Sunday, October 22nd Location: Jade Ballroom C, 4th floor of Longemont Shanghai Hotel	
13:30-13:55	Keynote Lecture
Title	Clean fuel production through solar thermochemical conversion for power, cooling and heat cogeneration
Authors	**Qibin Liu**
Affiliation	Institute of Engineering Thermophysics, CAS
13:55-14:10	Invited Talk
Title	New functional materials for solid-state cooling, thermal batteries and thermoelectric generators
Authors	**Shangchao Lin**
Affiliation	Shanghai Jiao Tong University
14:10-14:20	Oral Presentation
Title	Modeling and optimization of steam power systems in the context of CO_2 emission peak
Authors	**Boyu Guo**, Hongchao Yin, Xianchong Wang, Xiankun Huang, Liang Zhao, Mingchen Gao
Affiliation	Dalian University of Technology
14:20-14:30	Oral Presentation
Title	Non-equilibrium RF magnetron sputtering for graded solar selective absorbers
Authors	**Vasiliy Pelenovich**, Xiaomei Zeng, Chang Xu, Xiangyu Zhang, Bing Yang
Affiliation	Wuhan University
14:30-14:40	Oral Presentation
Title	Collaborative control strategy for load tracking and compressor inlet parameters stabilization of a sCO_2 Brayton cycle system
Authors	**Decai Zhao**, Bo Wang
Affiliation	Institute of Engineering Thermophysics Chinese Academy of Sciences
14:40-14:50	Oral Presentation
Title	Energy filtering-enhanced thermoelectric conversion performance in carbon fiber incorporated Ge-Bi-Te composites for sustainable waste-heat harvesting
Authors	**Ge Fu**, Changying Zhao, Shangchao Lin
Affiliation	Shanghai Jiao Tong University
14:50-15:00	Oral Presentation
Title	Scalable cooling by bulk plastic crystals with colossal barocaloric effects: experimental prototype and molecular design of thermodynamic cycles
Authors	**Kun Qian**, Shangchao Lin, Bing Li, Changying Zhao
Affiliation	Shanghai Jiao Tong University
15:00-15:15	**Coffee Break**

CONFERENCE PROGRAM

Session 16: Hydrogen and Renewable Low Carbon Fuels

Chairs: Yuanhang Cheng, Baowen Zhou 15:15-16:35, Sunday, October 22nd Location: Jade Ballroom A, 4th floor of Longemont Shanghai Hotel	
15:15-15:30	Invited Talk
Title	Degradation mechanism and stability improvement strategy of perovskite photovoltaic cells
Authors	**Yuanhang Cheng**
Affiliation	Nanjing University of Science and Technology
15:30-15:45	Invited Talk
Title	III-nitrides/Si-based artificial photosynthesis integrated device for green hydrogen and renewable synthetic fuels
Authors	**Baowen Zhou**
Affiliation	Shanghai Jiao Tong University
15:45-15:55	Oral Presentation
Title	Thermodynamic analysis of a hydrogen-electric cogeneration system with chemical looping conversion and fuel cells
Authors	**Yu Fang**, Taixiu Liu, Qibin Liu
Affiliation	Institute of Engineering Thermophysics, Chinese Academy of Sciences
15:55-16:05	Oral Presentation
Title	Uniform solar flux design of solar receiver in solar dish system based on solar flux field
Authors	**Qi Qi**, Junming Zhao
Affiliation	Harbin Institute of Technology
16:05-16:15	Oral Presentation
Title	Energy analysis of combined solid oxide electrolyzer and Fischer-Tropsch processes
Authors	**Biaowu Lu**, Zijie Zhang, Chen Zhang, Lei Zhu, Zhen Huang
Affiliation	Shanghai Jiao Tong University
16:15-16:25	Oral Presentation
Title	A photovoltaic-biomass complementary steady hydrogen production system with negative carbon emissions
Authors	**Kai Liu**, Taixiu Liu, Xueli Xing, Qibin Liu
Affiliation	Institute of Engineering Thermophysics, Chinese Academy of Sciences
16:25-16:35	Oral Presentation
Title	Investigation of oxygen transport and structure optimization in the cathode catalyst layers of PEMFCs
Authors	**Xiaojing Cheng**, Shuiyun Shen, Junliang Zhang
Affiliation	Shanghai Jiao Tong University
17:00-17:30	**Closing Ceremony and Awarding** **Sunday, October 22nd, 2023, Jade Ballroom, 4th floor of Longemont Shanghai Hotel**

CONFERENCE PROGRAM

Session 17: Decarbonization and CCUS

Chairs: Yanan Yue, Qilin Cai
15:15-16:25, Sunday, October 22nd
Location: Jade Ballroom B, 4th floor of Longemont Shanghai Hotel

15:15-15:30	**Invited Talk**
Title	Understanding thermal transport at nanoscale and its interfaces toward energy efficiency and thermal safety
Authors	**Yanan Yue**
Affiliation	Wuhan University
15:30-15:45	**Invited Talk**
Title	Sustainable production of dicarboxylic acids using an electrocatalytic system composed of NiO and a nitroxyl radical
Authors	**Weiping Deng**, Kai Zhang, Zixiang Zhan, Haiwei Lai, Qinghong Zhang, Ye Wang
Affiliation	Xiamen University
15:45-15:55	**Oral Presentation**
Title	Dehydration coupled hydrogenation process for CO_2 to methanol conversion with high per pass yield
Authors	**Huangcan Hu**, Xiaonghang Yang, Chuning Su, Haibo Jiang, Hongyun Yang
Affiliation	Xiangtan University
15:55-16:05	**Oral Presentation**
Title	Adsorption and diffusion of CH_4, N_2 and their mixture in MIL-101(Cr): a molecular simulation study
Authors	**Yimin Shao**, Shanshan Wang, Liangliang Huang, Shenghong Ju, Xianfeng Fan, Wei Li
Affiliation	University of Edinburgh
16:05-16:15	**Oral Presentation**
Title	An in-depth review of key technologies and pathways to carbon neutrality: classification and assessment of decarbonization technologies
Authors	Hui Kong, **Yueqiao Sun**
Affiliation	Beijing Institute of Technology
16:15-16:25	**Oral Presentation**
Title	Optimization of the performance of photobioreactor with built-in optical fiber and reflective module
Authors	**Kexin Ren**, Jingmiao Zhang, Ao Xia, Yun Huang, Xianqing Zhu, Xun Zhu, Qiang Liao
Affiliation	Chongqing University
17:00-17:30	**Closing Ceremony and Awarding** **Sunday, October 22nd, 2023, Jade Ballroom, 4th floor of Longemont Shanghai Hotel**

CONFERENCE PROGRAM

Session 18: Smart Energy towards Carbon Neutrality

Chairs: Xi Chen, Ce Shang
15:15-16:30, Sunday, October 22nd
Location: Jade Ballroom C, 4th floor of Longemont Shanghai Hotel

15:15-15:30	**Invited Talk**
Title	Lifespan and carbon cost of battery storage in planning
Authors	**Ce Shang**
Affiliation	Shanghai Jiao Tong University
15:30-15:40	**Oral Presentation**
Title	Molecular-level understanding of the enhanced stability of single bulk nanobubble
Authors	**Dezhao Huang**, Jiajie Lei, Yanan Yue
Affiliation	Wuhan University
15:40-15:50	**Oral Presentation**
Title	Moisture-driven energy harvesting and storage from the air by an asymmetric hygroscopic structure
Authors	**Yaoxin Zhang**
Affiliation	Shanghai Jiao Tong University
15:50-16:00	**Oral Presentation**
Title	A digital twin system design of an intelligent energy-efficient data center
Authors	**Tianyou Xue**, Dongsheng Wen, Guice Yao
Affiliation	Beihang University
16:00-16:10	**Oral Presentation**
Title	Collaborative optimization of multi-energy complementary system via game theory
Authors	**Tongqing Song**, Haotian Tang, Guo Tao, Ling Qin, C. Y. Zhao, Shenghong Ju
Affiliation	Shanghai Jiao Tong University
16:10-16:20	**Oral Presentation**
Title	Design of semitransparent colorful organic solar cells mediated by coupled nanocavities
Authors	**Shenghao Jin**, Fan Yi, Jiaming Xu, Boxiang Wang, Changying Zhao
Affiliation	Shanghai Jiaotong University
16:20-16:30	**Oral Presentation**
Title	Synergistic effect assessment and policy recommendations of pollution and carbon reduction in China's transport sector
Authors	**Tongtong Zhang**
Affiliation	China University of Petroleum (Beijing)
17:00-17:30	**Closing Ceremony and Awarding** **Sunday, October 22nd, 2023, Jade Ballroom, 4th floor of Longemont Shanghai Hotel**

POSTER PRESENTATION

Time: 16:30-18:00, Saturday, October 21st
Location: Jade Ballroom, 4th floor of Longemont Shanghai Hotel

PP01

Thermodynamic and stress analysis on dynamic response characteristic of PCHE in supercritical CO_2 power cycles

Junlin Chen, Keyong Cheng, Jiangfeng Guo, Xunfeng Li, Xiulan Huai

PP02

The climate opportunity of improving housing envelopes across 1677 Chinese cities

Yufei Zhang, Chunli Chu, **Zhi Cao**

PP03

Impacts of high-albedo urban surfaces on outdoor thermal environment across morphological contexts: a case of Tianjin, China

Ying Liu, Chunli Chu, Zhi Cao

PP04

Improved CO_2 capture performance of CaO-$Ca_{12}Al_{14}O_{33}$ materials through hydrocalumite-to-mayenite transformation

Yuyuan Zheng, Zhiwei Ge, Liang Wang, Haisheng Chen

PP05

Flow and heat transfer behavior of nucleating agent-enhanced nanofluids through manifold mini-channels

Jinjie Zhang, Mengke Wang, Guanhua Zhang, Yanping Du, Wei Lu

PP06

First-principle study of CaO/$Ca(OH)_2$ thermochemical energy storage system by bimetal elements doping

Caifeng Huang, Min Xu, Jianyi Chen, Xiulan Huai

PP07

Investigation and optimization of PEMFC-CHP based on heat and electricity consumption data of Chinese residential households

Xingbao Lyu, Li Chen, Wenquan Tao

POSTER PRESENTATION

Time: 16:30-18:00, Saturday, October 21st
Location: Jade Ballroom, 4th floor of Longemont Shanghai Hotel

PP08

The green and low carbon development pathways of urban and rural buildings in China: a case study of Shaanxi Province

Tingting Zhou, Xiongxiong Zhai, Xi Luo

PP09

Design methodology and parametric design study of hybrid-electric and distributed propulsion system for zero carbon air vehicle technology

Mingxing Yu, Zhi Tao, Haiwang Li, Gang Xie, Yanan Li

PP10

Performance analysis of PEMFC-based CHP with lithium-ion battery system based on the energy management strategy for a household in China

Wenjing Ning, Li Chen, Wenquan Tao

PP11

Promotion of CO_2 fracturing for CCUS: the gap between theory and practice

Lei Hou, Derek Elsworth

PP12

Conversion of 5-hydroxymethylfurfural and fructose to 5-ethoxymethylfurfural over chitin-derived solid acid catalysts

Jinhang Dai, Ziting Du, Qingya Cao, Ronghe Yang, Delong Yang, Fukun Li

PP13

Preparation and characterization of ethylene glycol/water-based emulsions

Junhao Chen, Yufen Chen, Yuxin Yu, Songping Mo

PP14

Effect of flow velocity on corrosion behavior of X100 pipeline steel in simulated oilfield produced water with saturated CO_2

Gang Ma, Yan Li, Lamei Liu, Chang'an Bian

POSTER PRESENTATION

Time: 16:30-18:00, Saturday, October 21st
Location: Jade Ballroom, 4th floor of Longemont Shanghai Hotel

PP15

Synergistic catalytic production of high-quality H_2 and CNTs by metals inside and outside biomass

Qi Shang, Dongdong Feng, Yijun Zhao, Shaozeng Sun

PP16

Research on enhanced heat transfer of space bearing

Xin Zhang, Menghao Lin, Xin Fang

PP17

Improving the cycling stability of $Ca(OH)_2$/CaO thermochemical heat storage by encapsulation

L. Jiang, J. Yan, X. K. Tian, C. Y. Zhao

PP18

A study on the carbon emission reduction path of rural energy consumption based on bilateral supply and demand management: a case study of Shanghai suburbs

Mohan Liu

PP19

The alloy-support synergistic effects for CO_2 hydrogenation to methanol over Ni-Ga/ZnO

Zhufu Fu, Yunian Chen, Yuan Xue

PP20

Roadmap towards clean and low-carbon heating to 2060: the case of northern urban region in China

Meiyan Ma

PP21

Hydrogen energy demand forecast and supply structure optimization of industrial sector under carbon peak and neutrality goal

Xinying Li, Xu Tang

Saturday, October 21st, 2023

POSTER PRESENTATION

Time: 16:30-18:00, Saturday, October 21st
Location: Jade Ballroom, 4th floor of Longemont Shanghai Hotel

PP22

Designing hydro-solar-wind-storage multi-energy complementary system via multi-objective optimization

Haotian Tang, Tongqing Song, Guo Tao, Ling Qin, Shenghong Ju

PP23

Feasibility study of aquifer compressed flue gas energy storage and the synergy of greenhouse gases sequestration

Mingyu Cai, Shuangxing Liu, Xingchun Li, Shugang Yang, Kunfeng Zhang, Xinglei Zhao

PP24

Impact of three-dimensional geometry on urban radiative flux

Hongyan Zhou, Kai Wang

PP25

Preparation and properties of color-changing hydrogels in response to dual temperature/pH stimulation

Jia Zheng, Lin Yao

PP26

Improved oxygen evolution reaction performance in $Co_{0.4}Mn_{0.6}O_2$ nanosheets through triple-doping (Cu, P, N) strategy and its application to Zn-air battery

Ying Li, Xingke Cai, Lin Yao

CONFERENCE AT A GLANCE

Conference Venue

- Longemont Shanghai Hotel (No.1116, Yan An Road(W), Changning District, Shanghai)

Onsite Registration

- Registration hours:

  13:30-23:00, Friday, October 20th, 2023

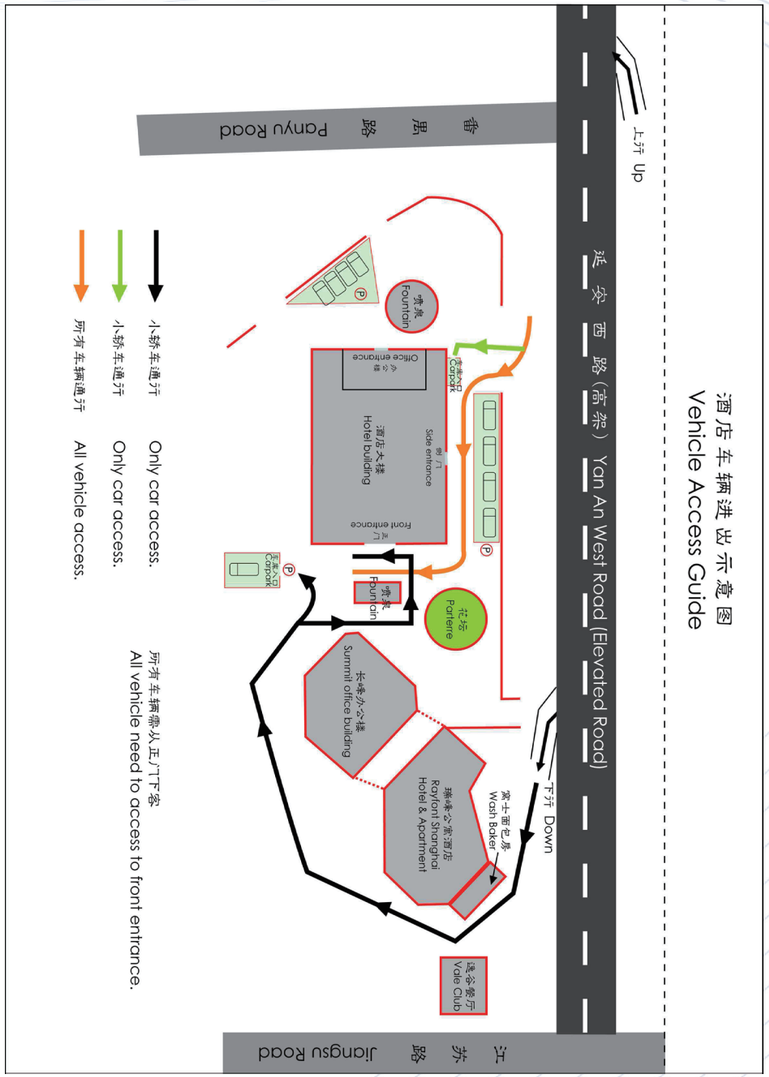
  The lobby of Longemont Shanghai Hotel

Presentation Types

- Plenary Lecture 40 minutes (including questions)
- Keynote Speech 25 minutes (including questions)
- Invited Talk 15 minutes (including questions)
- Oral Presentation 10 minutes (including questions)

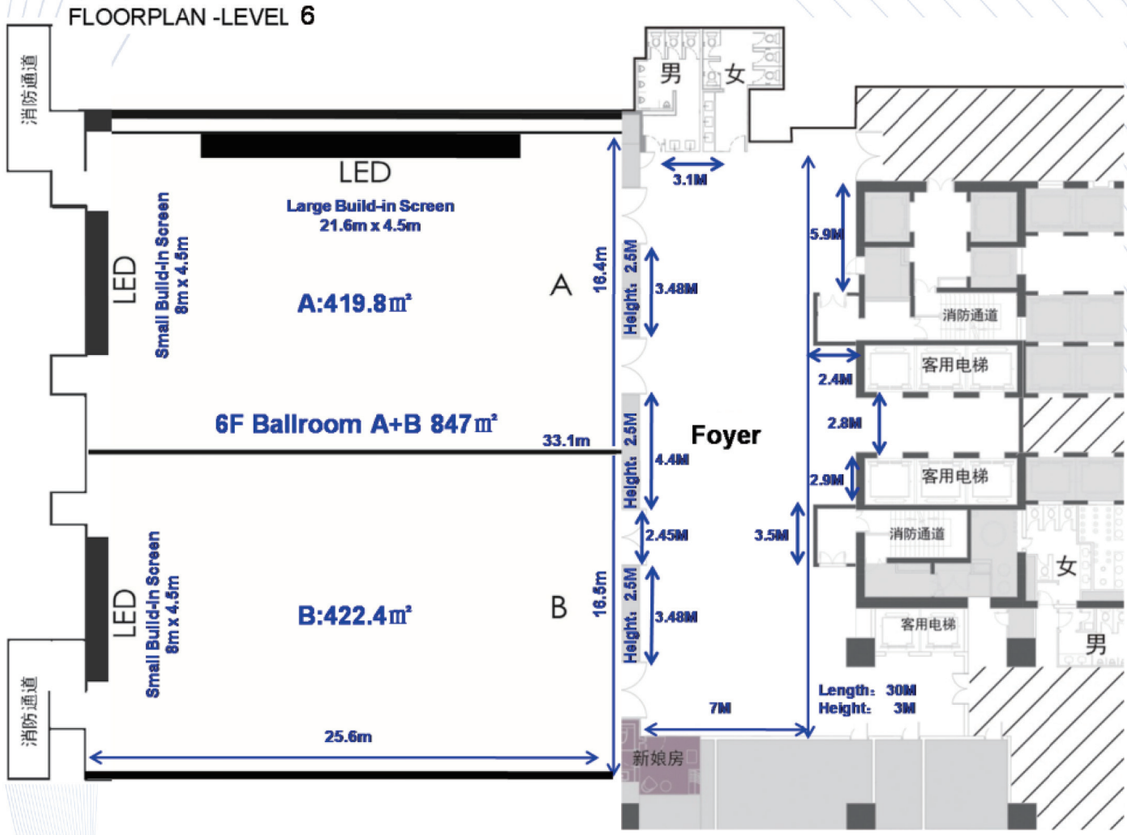
Dining Arrangement

Date	Time	Dinner	Location
Friday, October 20th	17:30-20:30	Reception Buffet	All Day Dining Restaurant 2nd floor of Longemont Shanghai Hotel
Saturday, October 21st	12:00-13:30	Lunch Buffet	
Saturday, October 21st	18:00-20:00	Welcome Banquet	Dragon Ballroom B 6th floor of Longemont Shanghai Hotel
Sunday, October 22nd	12:00-13:30	Lunch Buffet	All Day Dining Restaurant 2nd floor of Longemont Shanghai Hotel



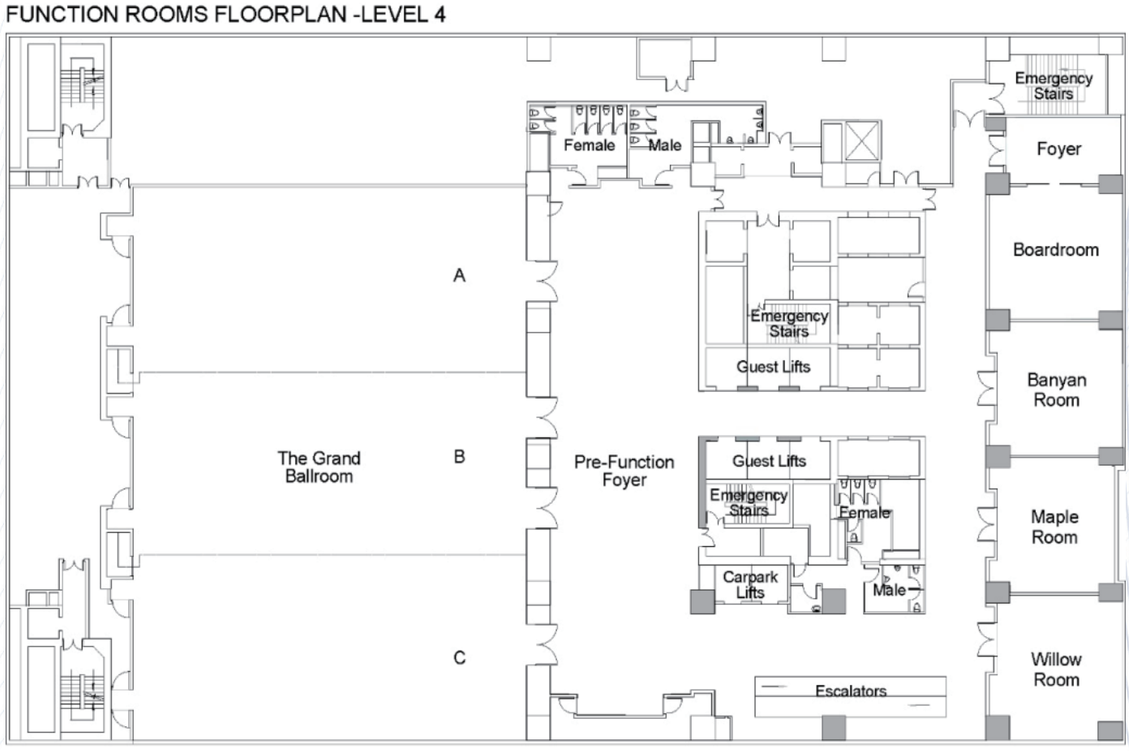
Vehicle Access Guide

FLOORPLAN -LEVEL 6



Dragon Ballroom Floorplan
6th floor of Longemont Shanghai Hotel

FUNCTION ROOMS FLOORPLAN -LEVEL 4



Jade Ballroom Floorplan
4th floor of Longemont Shanghai Hotel

ARRIVAL INFORMATION

Destination: The Longemont Shanghai Hotel(上海龙之梦酒店)

Starting Point 1: Shanghai Hongqiao Airport(上 海 虹 桥 机 场) /Shanghai Hongqiao Railway Station (上海虹桥高铁站)

· Bus & Subway (46min)

Walk to Hongqiao International Airport T2/Hongqiao Railway Station(虹桥国际机场 2 号航站楼站 / 虹桥火车站) and take subway Line 10(towards Jilong Road (基隆路)) to "YiLi Road" (伊犁路) subway station, then transfer to Bus 71 (towards North HuangPi Road (黄 陂 北 路)) to bus stop "Panyu Road" (番禺路).

· Taxi (30min)

Walk to Taxi pick-up point and take a taxi (14 km, about 50 yuan). You can show the following address to the taxi driver: 上海龙之梦酒店 .

Starting Point 2: Shanghai Pudong International Airport(浦东国际机场)

· Bus & Subway (100min)

Walk to Pudong International Airport Station(浦东国际机场站) and take subway Line 2 (towards East Xujing (徐泾东)) to "JiangSu Road" (江苏路) subway station.

· Taxi (60min)

Walk to Taxi pick-up point and take a taxi (58 km, about 200 yuan). You can show the following address to the taxi driver: 上海龙之梦酒店 .

Starting Point 3: Shanghai Railway Station(上海火车站)

· Bus & Subway (35min)

Walk to Shanghai Railway Station(上海火车站) and take subway Line 4(towards ZhongTan Road (中潭路))to “West Yan'an Road” (延安西路) subway station, then transfer to Bus 71 (towards North HuangPi Road (黄陂北路)) to bus stop "Panyu Road" (番禺路).

· Taxi (22min)

Walk to Taxi pick-up point and take a taxi (8 km, about 35 yuan). You can show the following address to the taxi driver: 上海龙之梦酒店 .



Host: Shanghai Jiao Tong University

Organizer: China-UK Low Carbon College of Shanghai Jiao Tong University

Co-organizers:
The University of Edinburgh
University of Michigan (Global CO_2 Initiative)
Tsinghua University
University of Birmingham
University of Oxford
Institute of Engineering Thermophysics, Chinese Academy of Sciences