CEAM 2026

2026 International Symposium on Clean Energy and Advanced Materials

New Energy and New Opportunity

Symposium Program

Hosted by : China University of Mining and Technology (CUMT)
Monash University (MU)
Pusan National University (PNU)

Organized by : Carbon Neutrality Institute, CUMT
School of Chemical Engineering & Technology, CUMT
International Joint Laboratory of Minerals Efficient Processing and Utilization, Ministry of Education, CUMT
Jiangsu Key Laboratory of Carbon Capture, Utilization and Storage, CUMT
State Key Laboratory of Coking Coal Resources Green Exploitation, CUMT
National Engineering Research Center of Coal Preparation and Purification, CUMT
Jiangsu Province Engineering Research Center of Fine Utilization of Carbon Resources, CUMT

Xuzhou, China
20-24 November, 2026

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Welcome Message

On behalf of the Organizing Committee, we are delighted to extend a warm welcome to all participants attending the 2026 International Symposium on Clean Energy and Advanced Materials (CEAM2026), taking place from November 20 to 24, 2026, in Xuzhou, China. This symposium, which has previously alternated between Australia, Korea, and China, serves as a premier platform for researchers, engineers, academics, and industry professionals from both universities and various sectors. It offers a valuable opportunity to exchange ideas, share knowledge, and establish research and development networks that promote technology transfer in the fields of clean energy and advanced materials. We are excited to meet you in Xuzhou for CEAM2026, co-hosted by China University of Mining and Technology, Monash University and Pusan National University.

The theme of this year's event, New Energy and New Opportunity, reflects our shared commitment to tackling global energy challenges. Over the coming days, we will present new research findings, explore cutting-edge technological innovations, and engage in discussions on sustainable development strategies across a uniquely broad and interdisciplinary landscape. The technical program delves deeply into energy storage technology and multiphase transportation, conversion and utilization of energy, while also addressing smart metallurgical coke production and the pyrolysis, gasification, and combustion of solid fuels. Alongside these core topics, special attention is given to waste processing and pollution control, advanced carbon materials, and the transformation of biomass to fine chemicals. Furthermore, the conference showcases carbon-free energy technology, minerals processing and critical minerals, catalysis and catalytic reactions for energy, and carbon capture, utilization and storage—all with the aim of advancing clean energy initiatives and fostering a more sustainable future.

This symposium has drawn over 300 participants from around the world. The program includes plenary and keynote lectures, oral presentations, and poster sessions that cover a wide spectrum of topics in the fields of clean energy and advanced materials. In addition to the academic presentations, this symposium will focus on industrial applications, as well as the environmental and safety impacts of clean energy technologies. We hope this event will spark innovative ideas, strengthen collaborations between academia and industry, and increase public awareness of carbon-free energy solutions. We are pleased to announce that selected outstanding papers from this symposium will be published in Special Issues of Fuel (Q1 level, Impact Factor: 7.5), Biochar (Q1 level，Impact Factor: 15.1) and Carbon Energy (Q1 level，Impact Factor: 21.4).

Once again, we warmly welcome all our distinguished guests. We look forward to engaging in meaningful discussions and collaborations that will shape the future of clean energy and materials research. Thank you for your participation and commitment to our shared goals. We wish you a productive, enjoyable, and enlightening conference experience.

Chair: Prof. Yuemin Zhao, China University of Mining and Technology
Prof. Chung-Hwan Jeon, Pusan National University
Prof. Jianglong Yu, Monash University

Organization

Chairs



Prof. Yuemin Zhao

Academician of the Chinese Academy of Engineering
Director, National Engineering Research Center of Coal Preparation and Purification
China University of Mining and Technology, China



Prof. Chung-Hwan Jeon

Director, Pusan Clean Energy Research Institute
Director, Korea-Australia Green Energy Global Hub Research Center
Pusan National University, Republic of Korea



Prof. Jianglong Yu

Acting Pro Vice-Chancellor and President, Monash Suzhou
Vice President, Monash Suzhou Research Institute
Monash University, Australia

Vice-Chairs



Prof. Jingpei Cao

Dean of Institute of Carbon Neutrality
China University of Mining and Technology, China



Prof. Haijun Zhang

Dean of School of Chemical Engineering
China University of Mining and Technology, China



Prof. Sankar Bhattacharya

Head of Department of Chemical and Biological Engineering
Monash University, Australia

Scientific Committee Members

- Prof. Kyung-Chun Kim, Pusan National University, Republic of Korea
- Prof. Chang-Kook Ryu, Sungkyunkwan University, Republic of Korea
- Prof. Jieshan Qiu, Beijing University of Chemical Technology, China
- Prof. Xianyong Wei, China University of Mining and Technology, China
- Prof. Jin Bai, Institute of Coal Chemistry, Chinese Academy of Sciences, China
- Prof. Wei-Hsin Chen, National Cheng Kung University, Taiwan, China
- Prof. Li'an Zhang, Monash University, Australia
- Prof. Shu Zhang, Nanjing Forestry University, China
- Prof. Dongfang Li, Kunming University of Science and Technology, China
- Assoc. Prof. Erfeng Hu, Chongqing University, China
- Prof. Sankar Bhattacharya, Monash University, Australia
- Prof. Yansong Shen, The University of New South Wales, Australia
- Assoc. Prof. Arash Tahmasebi, University of Newcastle, Australia
- Dr. Soon-Ho Lee, Royal Melbourne Institute of Technology, Australia
- Dr. Jae-Hun Yang, University of Newcastle, Australia
- Prof. Trinh Viet Thieu, Hanoi University of Science and Technology, Vietnam
- Dr. Yanuar Yudhi Isworo, National Standardization Agency of Indonesia, Indonesia
- Dr. Jinxiao Dou, University of Science and Technology Liaoning, China
- Assoc. Prof. Baiqian Dai, Monash University, Australia
- Prof. Tungalagtamir Bold, Mongolian University of Science and Technology, Mongolia
- Prof. Jiancheng Wang, Taiyuan University of Technology, China
- Prof. Lijun Jin, Dalian University of Technology, China
- Prof. Qingya Liu, Beijing University of Chemical Technology, China
- Dr. Yuting Zhuo, The University of New South Wales, Australia
- Prof. Gyung-Min Choi, Pusan National University, Republic of Korea
- Prof. Se-Chul Oh, Pusan National University, Republic of Korea
- Dr. Tae-Young Mun, Korea Institute of Energy Research, Republic of Korea
- Dr. Jongho Kim, Pohang Iron and Steel Co., Ltd., Republic of Korea
- Prof. Xiangzhou Yuan, Southeast University, China

Organizing Committee

Members

Prof. Yunpeng Zhao, China University of Mining and Technology, China

Prof. Yancheng Hu, China University of Mining and Technology, China

Prof. Shijian Lu, China University of Mining and Technology, China

Prof. Xiaoyan Zhao, China University of Mining and Technology, China

Assoc. Prof. Xiaobo Feng, China University of Mining and Technology, China

Assoc. Prof. Hongyan Wang, China University of Mining and Technology, China

Assoc. Prof. Fangjing Liu, China University of Mining and Technology, China

Assoc. Prof. Wenju Shi, China University of Mining and Technology, China

Assoc. Prof. Tianlong Liu, China University of Mining and Technology, China

Assoc. Prof. Zimeng He, China University of Mining and Technology, China

Assoc. Prof. Fengjiao Yi, China University of Mining and Technology, China

Assoc. Prof. Fu Wei, China University of Mining and Technology, China

Assoc. Prof. Ruolin Cheng, China University of Mining and Technology, China

Assoc. Prof. Mengyuan Liu, China University of Mining and Technology, China

Assoc. Prof. Pengxiang Zhao, Wuhan University of Science and Technology, China

Assoc. Prof. Yuhang Qiu, Jimei University, China

Dr. Hao Lu, China University of Mining and Technology, China

Dr. Jian Xiao, China University of Mining and Technology, China

Dr. Yijie Zeng, Pusan National University, Republic of Korea

Dr. Wei Jiang, China University of Mining and Technology, China

Secretariat

Assoc. Prof. Zimeng He, China University of Mining and Technology, China

Assoc. Prof. Pengxiang Zhao, Wuhan University of Science and Technology, China

Dr. Yijie Zeng, Pusan Clean Energy Research Institute, Pusan National University, Republic of Korea

Plenary Speakers



Kyung-Chun Kim

Prof. Kyung Chun Kim received his BA degree at Pusan National University, Korea in 1979. He received MS and Ph.D degree at KAIST, Korea in 1981 and 1987 respectively. Since 1983, he is a professor at School of Mechanical Engineering in Pusan National University (PNU), Korea. He was invited as a visiting professor from Ottawa University in Canada for 1989-1990, University of Illinois, Urbana-Champaign, USA for 1996-1997, the University of Tokyo, Japan for 2009-2010. On the basis of his research outcomes, he became a member of National Academy of Engineering in Korea in 2004. He received Nakayama award in 2012 and Asanuma award in 2014 and Leonardo da Vinci award in 2025 based on contributions in world Visualization society. KC Kim was selected as a PNU Distinguished Professor in 2018. He is currently serving as an Editor in Chief for Journal of Visualization. His research interests include: Turbulence, Combustion, Two-Phase Flows, Renewable Energy, and Artificial Intelligence.



Wei-Hsin Chen

Professor Wei-Hsin Chen is a Distinguished Professor at the Department of Aeronautics and Astronautics and Director of Energy Industry Talent Education Center, National Cheng Kung University. He is also an Honorary Chair Professor at Tunghai University, a Chair Professor at the National Chin-Yi University of Technology, a Professor at the National Tsing Hua University, a Research Fellow of the National Science and Technology Council, and the President of the Institute for Liquid Atomization and Spray Systems-Asia (ILASS-Asia). His research interests include hydrogen energy, bioenergy, clean energy, carbon capture and utilization, and atmospheric science. He has published over 700 peer-reviewed journal papers with an h-index of 117 (Scopus). He is the Editor-in-Chief, Section Editor-in-Chief, associate editor, and editorial board member of several prestigious journals. He also serves as a Guest Editor of over 25 SCI-indexed journals. In recent years, his crucial awards include the Outstanding Research Award, Highly Cited Research and Review Paper Awards (Applied Energy, Elsevier), Outstanding Engineering Professor Award, Highly Cited Review Article Award (Bioresource Technology, Elsevier), TECO Award, seven consecutive years (2016-2022) Clarivate Analytics (Web of Science) Highly Cited Researcher Award, and seven consecutive years (2020-2026) Stanford University's List of the World's Top 2% Scientists.



PhD in Chemical Engineering, University of Pittsburgh, USA, 1983-1988;
Research Associate, West Virginia University, USA, 1988-1995;
Professor, Institute of Coal Chemistry, Chinese Academy of Sciences, 1995-2006;
Director, State Key Laboratory of Coal Conversion, 2004-2006;
Professor, Beijing University of Chemical Technology, 2007-present.
Research Interests: Conversion of coal and heavy organic resources into clean fuels and chemicals; free-radical chemistry, electromagnetic induction heating, and CO_2 abatement. Over 500 peer-reviewed journal publications. One book and a few book chapters.
Selected Awards: Outstanding Post-Doctoral Student in Chemical Engineering, American Institute of Chemists Foundation (USA, 1995); Heritage Prize for Excellence in Creative Activity, Li Foundation (USA, 1996); Outstanding Young Scientist Award, Qiushi Science and Technology Foundation (Hong Kong, 2000).

Zhenyu Liu

Yansong Shen is a full Professor in the School of Chemical Engineering at the University of New South Wales (Tenured). He is a Fellow of the Australian Academy of Technological Sciences & Engineering (ATSE). He is the Director of an ARC Research Hub (2025-2030). He obtained his BEng and MEng degrees from Northeastern University (China) and his PhD degree from UNSW. He initiated and is leading the 'UNSW SCoPE Lab for Green Metals' (www.scope.unsw.edu.au). He published over 260 peer-reviewed papers in top-tier multidisciplinary journals, secured 14 ARC and >40 highly competitive research grants from national and international funding agencies, in total over AUD A$130M, established industry engagements in Australia and overseas, and won several honours and highly-competitive national fellowships - ARC APDI Fellowship (2012-2015) and ARC Future Fellowship (2019-2025). His group designed and scaled up several new technologies, including low-carbon ironmaking and solar panel recycling. Many of them have been patented, implemented and practised in industries with measurable benefits. He was selected as the President of the Australasian Particle Technology Society, the Chair of the ATSE Mineral Resources Forum, a Fellow of the Royal Society of New South Wales, and an invited/plenary speaker at tens of international conferences.



Yansong Shen



Professor, International Fellow of Royal Academy of Engineering (FREng); Director of Key Laboratory on Resources Chemicals and Materials of Ministry of Education, the Former President of Shenyang University of Chemical Technology; a member of the National Expert Team for the National High-Technology Development Program and for the National Key Research and Development Program of China. He sponsored the World Society on Engineering Thermochemistry, and is a Member of the International Advisory Board on Fluidized Bed Technology, the foundation Chair for the CIESC's Technical Division on ETC. He has published more than 600 articles, and led his team to successfully develop several technologies in the areas of fuels thermochemical conversion, flue gas clean-up, and carbonates calcination, which have been well commercialized to form 300+ sets of industrial processes and/or facilities.

Guangwen Xu

Keynote Speakers



Prof. Baigang An
University of Science and Technology Liaoning



Prof. Seher Ata
The University of New South Wales



Prof. Shaotao Bai
Shenzhen Polytechnic University



Prof. Jun Cheng
Zhejiang University



Prof. Bai-qian Dai
Monash University Suzhou Campus



Prof. Lu Ding
East China University of Science and Technology



Prof. Mei Dong
Institute of Coal Chemistry, Chinese Academy of Sciences



Prof. Lunbo Duan
Southeast University



Prof. Le Duc Dung
Hanoi University of Science and Technology



Prof. Weibin Fan
Institute of Coal Chemistry, Chinese Academy of Sciences



Prof. Mengxiang Fang
Zhejiang University



Prof. Jinxia Fu
The Second Research Institute of CAAC


Prof. Sheng Han
Shanghai Institute of Technology


Prof. Dongfang Li
Kunming University of Science and Technology


Prof. Kongzhai Li
Kunming University of Science and Technology


Prof. Peng Li
Zhengzhou University


Prof. Bill Nimmo
University of Sheffield


Prof. Yingyun Qiao
China University of Petroleum (East China)


Prof. Jieshan Qiu
Beijing University of Chemical Technology


Prof. Wenzhong Shen
Institute of Coal Chemistry, Chinese Academy of Sciences


Prof. Shuangjun Li
Tianjin University


Prof. Yingjie Li
Shandong University

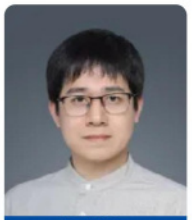

Prof. Zhong Li
Taiyuan University of Technology


Prof. Shuqin Liu
China University of Mining and Technology (Beijing)


Prof. Hengfu Shui
Anhui University of Technology


Prof. Yan Song
Institute of Coal Chemistry, Chinese Academy of Sciences


Prof. Beiqi Sun
Huaneng Clean Energy Research Institute


Prof. Fei Sun
Harbin Institute of Technology


Prof. Xiaohao Liu
Jiangnan University


Prof. Yiming Liu
Taiyuan University of Science and Technology


Prof. Zhongwen Liu
Shaanxi Normal University


Prof. Xiangtong Meng
Beijing University of Chemical Technology


Prof. Ming Sun
Northwest University


Prof. Sen Wang
Institute of Coal Chemistry, Chinese Academy of Sciences


Prof. Shengping Wang
Ningxia University


Prof. He Yang
Dalian University of Technology


Prof. Jiangfeng Yang
Taiyuan University of Technology


Prof. Qi Yang
Beijing University of Chemical Technology


Prof. Ruizhi Yang
Soochow University


Prof. Jianliang Yu
Dalian University of Technology


Prof. Xiangzhou Yuan
Southeast University

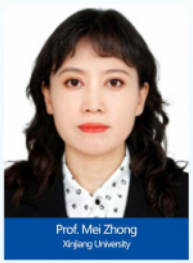

Prof. Xianhai Zeng
Xiamen University

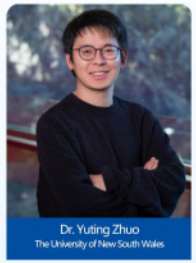

Prof. Huiyan Zhang
Southeast University


Prof. Riguang Zhang
Taiyuan University of Technology


Prof. Sheng Zhang
Tianjin University


Prof. Shihan Zhang
Zhejiang University of Technology


Prof. Mei Zhong
Xinjiang University


Dr. Yuting Zhuo
The University of New South Wales

General Agenda

November 20th **Day 1**	**Registration** 8:30-22:00, Lobby (1F) **Dinner** 18:00-20:00, Pengcheng Function Room 1 2 (B1)
November 21st **Day 2**	**Registration** 7:30-8:30, Lobby (1F) **Opening Ceremony** 8:30-9:00, Huaihai Grand Ballroom 1 2 3 (1F) **Plenary Sessions** 9:00-12:00, Huaihai Grand Ballroom 1 2 3 (1F) **Lunch** 12:00-13:30, Sunshine Garden Hall (B1) **Parallel Sessions (I-VI)** 14:00-17:25, Parallel Session I: VIP Room 2 (B1) 14:00-18:00, Parallel Session II: Meeting Room 1 (B1) 14:00-17:25, Parallel Session III: Meeting Room 2 (B1) 14:00-17:55, Parallel Session IV: Pengcheng Function Room 2 (B1) 14:00-17:45, Parallel Session V: Pengcheng Function Room 1 (B1) 14:00-17:40, Parallel Session VI: Boardroom (B1) **Welcome Banquet** 18:00-20:00, Huaihai Grand Ballroom 1 2 3 (1F)
November 22nd **Day 3**	**Parallel Sessions (I-V)** 8:30-17:30, Parallel Session I: VIP Room 2 (B1) 8:30-17:30, Parallel Session II: Meeting Room 1 (B1) 8:30-17:35, Parallel Session III: Meeting Room 2 (B1) 8:30-17:35, Parallel Session IV: Pengcheng Function Room 2 (B1) 8:30-17:50, Parallel Session V: Pengcheng Function Room 1 (B1) **Lunch** 12:00-13:30, Sunshine Garden Hall (B1) **Dinner** 18:00-19:30, Sunshine Garden Hall (B1)
November 23rd **Day 4**	**Technical Trip for Foreign Participants / Departure for Local Participants**
November 24th **Day 5**	**Departure for Foreign Participants**

Conference Schedule

Day 1 November 20th, 2026			
Start	End	Content	Location
8:30	22:00	Registration	Lobby (1F)
18:00	20:00	Dinner	

Day 2 Morning Session (7:30-12:00) November 21st, 2026					
Start	End	Content			Location
7:30	8:30	Registration			Lobby (1F)
8:30	9:00	Opening Ceremony (Chair: Jingpei Cao) Chenlong Duan, China University of Mining and Technology Yuemin Zhao, China University of Mining and Technology Chung-Hwan Jeon, Pusan National University Jianglong Yu, Monash University			Huaihai Grand Ballroom 1 2 3 (1F)
9:00	10:00	Plenary Lecture 1-2 (Chairs: Haoquan Hu, Jieshan Qiu)			
9:00	9:30	Can Hydrogen Stabilize a Confined Ammonia/Hydrogen Swirl Combustion?	Kyung Chun Kim	Pusan National University	
9:30	10:00	Fluidized bed two-stage gasification of biomass for low-tar fuel-gas/syngas	Guangwen Xu	Shenyang University of Chemical Technology	
10:00	10:30	Photos+Coffee Break			
10:30	12:00	Plenary Lecture 3-5 (Chairs: Jianglong Yu, Chung-Hwan Jeon, Hengfu Shui)			
10:30	11:00	Advances in Thermoelectric Generation from Harvesting Waste Heat for Net Zero and Sustainability	Wei-Hsin Chen	National Cheng Kung University	
11:00	11:30	Electromagnetic Induction Heating-Driven Endothermic Reactions for Clean Energy Conversion	Zhenyu Liu	Beijing University of Chemical Technology	
11:30	12:00	Particle-Fluid Reacting Flow Systems: from Simulation to PAIC Digital Twin	Yansong Shen	The University of New South Wales	
12:00	13:30	Lunch			

Session I	Subject: Gasification, Waste Processing and Pollution Control				
Start	End	Content			Location
14:00	17:25	Day 2 Afternoon Session (14:00-17:25) November 21st, 2026			VIP Room 2 (B1)
		Chairs: Sheng Han, Zhongjie Shen			
14:00	14:25	Gasification Technology at ECUST: From Fossil Fuel to Biomass for Green Fuel Production	Lu Ding	Keynote	East China University of Science and Technology
14:25	14:45	The migration and transformation of potassium during biomass gasification and its regulation	Fenghai Li	Invited	Heze University
14:45	15:05	Release mechanism of alkali metals in the co-gasification condition of coal and biomass	Chong He	Invited	Taiyuan University of Technology
15:05	15:20	Concentrate ash detection based on multi-source heterogeneous data and deformable attention network in coal flotation	Chunlong Zhang	Oral	China University of Mining and Technology
15:20	15:35	Effects of dry torrefaction on hydrophobicity of bamboo, coffee grounds, and microalgae: a combined Taguchi and response surface methodology approach	Bhichamon Maythapruet	Oral	National Cheng Kung University
15:35	16:05	Coffee Break			
		Chairs: Jiancheng Wang, Lu Ding			
16:05	16:30	Design, Preparation and Mechanism of Biobased Pour Point Depressants	Sheng Han	Keynote	Shanghai Institute of Technology
16:30	16:50	High-temperature structure and fusion mechanism of coal gasification fine ash	Xiaoming Li	Invited	Taiyuan University of Science and Technology
16:50	17:10	Chemical and physical behaviours of biomass particles for entrained flow gasification	Zhongjie Shen	Invited	East China University of Science and Technology
17:10	17:25	Influence of aluminum species distribution in polyaluminum chloride on the mitigation of fine kaolinite entrainment in coal flotation	Qifa Lu	Oral	China University of Mining and Technology
18:00	20:00	Welcome Banquet			

8:30	12:05	Day 3 Morning Session (8:30-12:05) November 22nd, 2026				VIP Room 2 (B1)
		Chairs: Shuqin Liu, Linmin Zhang				
8:30	8:50	Reactive molecular dynamics simulation for thermochemical process of mixed fuel feedstocks	Mo Zheng	Invited	Institute of Process Engineering, Chinese Academy of Sciences	
8:50	9:10	Selective Recovery of Critical Metals from Complex Secondary Resources: From Matrix Activation to Interfacial Separation	Daoguang Teng	Invited	Zhengzhou University	
9:10	9:30	Valorization of protein-rich spent coffee grounds: N-configuration regulation and Inherent nitrogen fixation	Ranran Hou	Invited	Shandong University of Science and Technology	
9:30	9:45	Mechanisms underlying corn stover torrefaction-improved slagging and melting behavior in biomass-coal co-gasification	Ailing Duan	Oral	Taiyuan University of Technology	
9:45	10:00	Hydrodynamic Design and Process Simulation of a Three-Reactor Sorption-Enhanced Chemical Looping Gasification System for Biomass Steam Gasification	Aoyang Zhang	Oral	Kunming University of Science and Technology	
10:00	10:30	Coffee Break				
		Chairs: Mo Zheng, Chong He				
10:30	10:55	Theory and Practice of High-Efficiency Gas Production through In-Situ Gasification of Deep Coal Seams	Shuqin Liu	Keynote	China University of Mining and Technology (Beijing)	
10:55	11:15	Iron transformation behavior in coal slag with residual char under entrained flow gasification conditions	Ji Wang	Invited	North University of China	
11:15	11:35	Study on ash slag flow behavior and mechanism during the co-gasification of coal and coal indirect liquefaction residue	Linmin Zhang	Invited	Ningxia University	
11:35	11:50	Seed-Induced Na^+/K^+ Cations Redistribution and Multiscale Pore Formation in FAU Zeolites for Efficient H_2S Removal	Yuna Nie	Oral	Taiyuan University of Technology	
11:50	12:05	Physics-Constrained Artificial Neural Network for Online Estimation of Fuel Throughput and Properties in a 100 MWe Biomass Boiler	Yunchang Jang	Oral	Sungkyunkwan University	
12:05	13:30	Lunch				

14:00	17:30	Day 3 Afternoon Session (14:00-17:30) November 22nd, 2026				VIP Room 2 (B1)
		Chairs: Yuxin Yan, Ranran Hou				
14:00	14:25	Low temperature pyrolysis and gasification of biomass in fluidized bed with natural catalysts for hydrogen rich gases production	Le Duc Dung	Keynote	Hanoi University of Science and Technology	
14:25	14:45	Multidimensional Metal/Carbon Catalysts for Persulfate-Driven Micropollutant Removal	Xinlong Yan	Invited	China University of Mining and Technology	
14:45	15:05	Machine learning-assisted study on modulating aluminosilicate framework of high-silica coal ash via calcium extracted from waste oyster shells	Meiling Xu	Invited	Heze University	
15:05	15:20	Interlayer water absorption expansion and surface hydration properties of montmorillonite and kaolinite	Jingqi Zhang	Oral	China University of Mining and Technology	
15:20	15:35	Evaluation of Flow Control Structures for Alleviation of FAC in the IP Evaporator of a HRSG	Sungjae Lee	Oral	Sungkyunkwan University	
15:35	16:05	Coffee Break				
		Chairs: Le Duc Dung, Xinlong Yan				
16:05	16:25	Engineering Research on the High-value and Fine Conversion of Carbon-based Resources	Xiong Su	Invited	Xinjiang Technical Institute of Physics and Chemistry Chinese Academy of Sciences	
16:25	16:45	Structure–Property Relationships of Media in Electromagnetic Induction-Driven Energy and Chemical Processes and Thermal-Reaction Coupling Intensification	Yuxin Yan	Invited	Beijing University of Chemical Technology	
16:45	17:00	Physics-Guided Multi-Step NO_x Forecasting for Predictive SNCR Operation in a Small-Scale Waste Incinerator	Seongmin Park	Oral	Sungkyunkwan University	
17:00	17:15	Shrinking-melting mechanism of biomass ashes induced by phase transformation of alkali metal minerals for entrained flow gasification	Junjie Liu	Oral	East China University of Science and Technology	
17:15	17:30	Impact of Ozone Microbubbles on the Degradation of Xanthates in Mineral-Processing Wastewater from Bubble Properties and Biosafety Assessment	Rui Gu	Oral	China University of Mining and Technology	
18:00	19:30	Dinner				

Session II		Subject: Pyrolysis of Solid Fuels				
Start	End	Content				Location
14:00	18:00	Day 2 Afternoon Session (14:00-18:00) November 21st, 2026				Meeting Room 1 (B1)
		Chairs: Xing Fan, Lei Shi				
14:00	14:25	Unveiling Bubbles and Froths: Insights from Advanced X-ray Imaging	Seher Ata	Keynote	The University of New South Wales	
14:25	14:45	Pyrolysis of low rank coals and their product regulation routes	Bin Tian	Invited	Northwest University	
14:45	15:05	Biomass torrefaction technology: Towards agricultural solid biowaste conversion and rural energy structure transformation	Congyu Zhang	Invited	Northeast Agricultural University	
15:05	15:20	Effects of torrefaction temperature on the physicochemical, thermal, and petrographic properties of wood pellet-derived biochar	Min-Jong Ku	Oral	Gwangju Institute of Science and Technology	
15:20	15:35	Stage kinetic analysis of thick-layer sewage sludge microwave drying	Kaihan Xie	Oral	Harbin Institute of Technology	
15:35	16:00	Coffee Break				
Fuel Journal Roundtable Discussion						
		Chair: Zhenyi Du				Meeting Room 1 (B1)
16:00	16:20	FUEL Journal-Adapting to Change	Bill Nimmo	Keynote	University of Sheffield	
16:20	16:40	Revolution in the Sky: Technical Challenges and Opportunities on China's SAF Journey	Jinxia Fu	Keynote	The Second Research Institute of CAAC	
16:40	18:00	Discussion				
18:00	20:00	Welcome Banquet				

8:30	12:10	Day 3 Morning Session (8:30-12:10) November 22nd, 2026				
		Chairs: Ming Sun, Bin Tian				
8:30	8:55	Effect of Metaplast on Char Structure during Coal Pyrolysis	He Yang	Keynote	Dalian University of Technology	
8:55	9:20	Research and Practice of Thermochemical Conversion of Organic Solid Waste	Yingyun Qiao	Keynote	China University of Petroleum (East China)	
9:20	9:40	The fine conversion of low- and medium-rank coals	Xing Fan	Invited	Shandong University of Science and Technology	
9:40	10:00	In-situ char structure modulation with polyethylene for inhibition of potassium release during biomass pyrolysis	Jiaofei Wang	Invited	Ningxia University	
10:00	10:30	Coffee Break				
		Chairs: Wei Huang, Yingyun Qiao				Meeting Room 1 (B1)
10:30	10:55	Co-processing of Coal and Biomass for Clean Fuel Production	Hengfu Shui	Keynote	Anhui University of Technology	
10:55	11:20	Recent Advances in Component Separation and Analysis of Low-Temperature Coal Tar and Its Conversion to Chemicals and Aviation Kerosene	Ming Sun	Keynote	Northwest University	
11:20	11:40	Synthesis of molecular solar thermal fuels from Phenols in coal tar	Xingtang Xu	Invited	Taiyuan University of Technology	
11:40	11:55	Modeling continuous coking of briquetted coal in a two-stage rotary kiln system: thermodynamic and techno-economic comparison with conventional chamber coking	Xin Zhang	Oral	Taiyuan University of Technology	
11:55	12:10	Evolution of Solvent-Extractable Fractions and Caking Behavior during Hydrogenation Modification of Low-Rank Coal	Xiaowen Ma	Oral	Institute of Coal Chemistry, Chinese Academy of Sciences	
12:10	13:30	Lunch				

14:00	17:30	Day 3 Afternoon Session (14:00-17:30) November 22nd, 2026				
		Chairs: Xianhai Zeng, Tao Xu				
14:00	14:25	Towards low-carbon emission for CFB Units: biomass / ammonia co-firing and integrated CCU technologies	Dongfang Li	Keynote	Kunming University of Science and Technology	
14:25	14:45	Study on the staged gas-phase catalytic pyrolysis of low-rank coal based on acid, base, and acid-base composite catalysis	Jingxian Wang	Invited	China University of Petroleum (East China)	
14:45	15:00	Correlation between Boiling Point, Composition, and Structure of Narrow True-Boiling-Point Fractions from Shenmu Industrial Coal Tar	Zhi Zhang	Oral	Xi'an University of Science and Technology	
15:00	15:15	Microwave dries swine manure to produce biomass fuel	Yiding Xu	Oral	Harbin Institute of Technology	
15:15	15:30	Pressurised co-pyrolysis of brown coal and sugarcane bagasse: Synergistic effect on syngas formation	Quan Sun	Oral	The University of Newcastle	
15:30	16:00	Coffee Break				Meeting Room 1 (B1)
		Chairs: Dongfang Li, Jingxian Wang				
16:00	16:25	Biomass pretreatment and the further conversion to green fuels and chemicals	Xianhai Zeng	Keynote	Xiamen University	
16:25	16:45	Coupling mechanism between functional group evolution and nanopore development during rice straw pyrolysis by in situ synchrotron infrared spectroscopy and very-small-angle neutron scattering	Tao Xu	Invited	Xi'an University of Science and Technology	
16:45	17:00	Kinetic and Synergistic Insights into the Co-Pyrolysis of Spent $LiFePO_4$ Batteries and Biomass	Hong Duc Nguyen	Oral	Pusan National University	
17:00	17:15	Online characterization of volatile formation during isothermal fast pyrolysis of industrial biomass by micro-fluidized bed reactor coupled to FP-MS and PTR-TOF-MS	Qing Wang	Oral	Beijing Technology and Business University	
17:15	17:30	Numerical simulation of dust deposition behavior in granular bed filter for hot dusty coal pyrolysis gas	Qian Tian	Oral	Taiyuan University of Technology	
18:00	19:30	Dinner				

Session III		Subject: Catalysis and Catalytic Reactions for Energy				
Start	End	Content				Location
14:00	17:25	Day 2 Afternoon Session (14:00-17:25) November 21st, 2026				
		Chairs: Zhongwen Liu, Mei Zhong				
14:00	14:25	Selective conversion of alkanes to olefins and aromatics	Mei Dong	Keynote	Institute of Coal Chemistry, Chinese Academy of Sciences	
14:25	14:45	Selective Hydrogenolysis of Glycerol to 1,3-Propanediol over Pt/WO_{3-x}: An Experimental and Theoretical Study	Haigang Hao	Invited	Inner Mongolia University	
14:45	15:00	Interfacial engineering of Ni/SiO_2 via moderate-temperature calcination: Steering metal-support interaction for poplar lignin hydroconversion	Shou-Cheng Jiao	Oral	Zaozhuang University	
15:00	15:15	Tuning Framework Al Topology to Control In_2O_3/ZSM-5 Interfacial Chemistry for Bioethanol-to-Propene Conversion	Liang Zhao	Oral	Institute of Science Tokyo	
15:15	15:30	Effect of Dual Organic Structure-Directing Agents on Aluminum Distribution in Beta Zeolite	Xinbo Pang	Oral	Institute of Science Tokyo	Meeting Room 2 (B1)
15:30	16:00	Coffee Break				
		Chairs: Bai-Qian Dai, Rui Feng				
16:00	16:25	High-performance Co-based Fischer-Tropsch catalysts for selective synthesis of long-chain linear alpha-olefins	Zhongwen Liu	Keynote	Shaanxi Normal University	
16:25	16:50	Development of Highly Efficient Catalysts for Direct Coal Liquefaction	Mei Zhong	Keynote	Xinjiang University	
16:50	17:10	Dual-Functional Carbon Overlayer as Hydrogen-Spillover Highway and CO-Binding Barrier for Durable and Selective CO_2 hydrogenation	Jiawei Hu	Invited	Shanghai Advanced Research Institute, Chinese Academy of Sciences	
17:10	17:25	Microwave-induced Ti Migration to Modulate Fe Spin State at Red-mud-derived Catalysts for Toluene Oxidation	Ruoqun Zhang	Oral	Monash University	
18:00	20:00	Welcome Banquet				

8:30	11:55	Day 3 Morning Session (8:30-11:55) November 22nd, 2026				
		Chairs: Sen Wang, Jianbo Zhang				
8:30	8:55	The synthesis of single atom catalyst for water splitting from coal gasification slag	Bai-Qian Dai	Keynote	Monash University Suzhou Campus	Meeting Room 2 (B1)
8:55	9:20	Chiral induced layered double hydroxides spin selectivity enhances water oxidation	Baigang An	Keynote	University of Science and Technology Liaoning	
9:20	9:40	Rh@S-1 catalysts for enhanced performance in 1-hexene hydroformylation	Rui Feng	Invited	China University of Mining and Technology	
9:40	9:55	Multiscale in situ characterization of the mechanisms, methods and applications of adsorption and separation processes in catalytic reactions	Peng Gao	Oral	Advanced Measurement Instruments	
9:55	10:10	Interfacial Design of Main-Group Oxide-Carbon Catalysts for Electrocatalytic Nitrogen Reduction	Dening Wei	Oral	Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences	
10:10	10:40	Coffee Break				
		Chairs: Baigang An, Zhongqiu Liu				
10:40	11:05	Tuning the location of acid sites in zeolite and regulating its catalytic performance in methanol-mediated CO_2 conversion	Sen Wang	Keynote	Institute of Coal Chemistry, Chinese Academy of Sciences	
11:05	11:25	Carbon-Ni Network Derived from Spent Methane Decomposition Catalyst as Substrate for CoNi-Layered Double Hydroxides Enabling High-Performance Supercapacitors	Jianbo Zhang	Invited	Northwest University	
11:25	11:40	Physics-Guided Machine Learning for Interpretable Small-Sample Design Screening of Catalytic Hydrogen Combustion Microreactors	Shirong Guo	Oral	Monash University	
11:40	11:55	Tuning the selective hydrogenation pathways of fluoranthene via metal and carbon doped MoS_2 catalysts	Songpeng Cheng	Oral	China University of Mining and Technology	
12:00	13:30	Lunch				

14:00	17:35	Day 3 Afternoon Session (14:00-17:35) November 22nd, 2026				
		Chairs: Weibin Fan, Leilei Zhang				
14:00	14:25	Production of Long-Chain α-Olefins via the Iron-Based Fischer-Tropsch Synthesis of Synthesis Gas	Xiaohao Liu	Keynote	Jiangnan University	Meeting Room 2 (B1)
14:25	14:45	Mechanistic Study of Light Alcohol Activation in Zeolite Catalysis by NMR and Theoretical Simulations	Xianfeng Yi	Invited	Wuhan University of Science and Technology	
14:45	15:00	The effect of Crystal phase regulation on lignite pyrolysis upgrading to light aromatics over Ni-modified Nb_2O_5 catalyst	Shi-Yun Xiao	Oral	China University of Mining and Technology	
15:00	15:15	Understanding Precursor-Dependent Silicon Incorporation in SAPO-18 for Methanol-to-Olefins Catalysis	Kairui Luan	Oral	Institute of Science Tokyo	
15:15	15:30	Phytic acid-assisted phase-controlled synthesis of nickel phosphides for efficient deep hydrogenation of polycyclic aromatic hydrocarbons	Pengtao Zhu	Oral	China University of Mining and Technology	
15:30	16:00	Coffee Break				
		Chairs: Xiaohao Liu, Zhanku Li				
16:00	16:25	Catalyst design and fabrication for conversion of CO_2 to hydrocarbons	Weibin Fan	Keynote	Institute of Coal Chemistry, Chinese Academy of Sciences	
16:25	16:45	Coordination Environment Modulation of Single-Atom Catalysts for Olefin Carbonylation Reactions	Leilei Zhang	Invited	Northwest University	
16:45	17:05	Synergistic Regulation of Active Sites and Hierarchical Pore Structures in Zn/ZSM-5 for Catalytic Production of Aromatics from Biomass Pyrolysis	Naiyu Yao	Invited	Huaibei Normal University	
17:05	17:20	Mo-Modified Magnetic Core–Shell HZSM-5 Catalyst for Light Aromatics Production from Coal Pyrolysis	Zhuangwei Bai	Oral	Xi'an University of Science and Technology	
17:20	17:35	The current situation of Mongolia's coal industry	Tuguldur Mungunselem	Oral	China University of Mining and Technology	
18:00	19:30	Dinner				

Session IV		Subject: Advanced Carbon Materials, Energy Storage Technology and Multiphase Transportation				
Start	End	Content				Location
14:00	17:55	Day 2 Afternoon Session (14:00-17:55) November 21st, 2026				Pengcheng Function Room 2 (B1)
		Chairs: Yan Song, Xiaojun He				
14:00	14:25	Smart Production of Coal-based Functional Carbon Materials	Jieshan Qiu	Keynote	Beijing University of Chemical Technology	
14:25	14:50	Recent Progress for Preparing High-Performance Carbon Materials from Pyrolysis Oil and Oil Vapor	Huiyan Zhang	Keynote	Southeast University	
14:50	15:10	Controlling porosity, surface chemistry and defect of activated carbon fibers for H_2S treatment	Jianxiao Yang	Invited	Hunan University	
15:10	15:30	Design of electrocatalysts with tuned structure for efficient ammonia synthesis	Ying Sun	Invited	Liaoning University	
15:30	16:00	Coffee Break				
		Chairs: Huiyan Zhang, Xiangtong Meng				
16:00	16:25	Preparation, structure and morphology control of pitch based porous carbons	Yan Song	Keynote	Institute of Coal Chemistry, Chinese Academy of Sciences	
16:25	16:50	Toward practical aqueous zinc batteries: intensifying ion mass transfer and electrode reactions	Qi Yang	Keynote	Beijing University of Chemical Technology	
16:50	17:10	Novel electrochemical heat engines for the integration of energy storage and low-grade heat harvesting	Ruihua Chen	Invited	Tianjin University	
17:10	17:25	Applications of Surface Analysis Techniques in Advanced Energy Materials Research	Lin Feng	Oral	ULVAC PHI Instruments Co.,Ltd.	
17:25	17:40	Combining Ammonia Oxidation and Photocatalytic-driven directional reconstruction of lignite: Nitrogen-coordinated carbon quantum dots for ultrasensitive sensing of Cu^{2+}	Linjing Hao	Oral	Zhengzhou University	
17:40	17:55	Modular Design and Optimization of Multi-Cell Anion Exchange Membrane Electrolyzer Stacks	Chia-Yi Hsu	Oral	National Cheng Kung University	
18:00	20:00	Welcome Banquet				

8:30	12:05	Day 3 Morning Session (8:30-12:05) November 22nd, 2026				Pengcheng Function Room 2 (B1)
		Chairs: Baolin Xing, Xiangzhou Yuan				
8:30	8:55	Oxide/Polymer Electrolyte Interface Engineering for Solid-state Lithium Metal Batteries	Ruizhi Yang	Keynote	Soochow University	
8:55	9:20	Activity regulation of advanced carbon materials	Xiangtong Meng	Keynote	Beijing University of Chemical Technology	
9:20	9:40	Research on the evolution and prediction of pore structure in porous carbon materials	Xingxing Cheng	Invited	Shanxi Research Institute of Huairou Laboratory	
9:40	9:55	Effective Hydrogen Production and Controllable Carbon Nanotube Synthesis from Methane Pyrolysis over Quaternary Alloys	Mengting Wang	Oral	Monash University	
9:55	10:25	Coffee Break				
		Chairs: Ruizhi Yang, Xiongchao Lin				
10:25	10:50	AI-empowered rational design of biochar-based carbons for energy environmental applications	Xiangzhou Yuan	Keynote	Southeast University	
10:50	11:15	Pitch-based carbon fiber preparation and application	Wenzhong Shen	Keynote	Institute of Coal Chemistry, Chinese Academy of Sciences	
11:15	11:35	Controllable synthesis of a carbonaceous pitch from molecular dimension by a novel method of chlorination-dechlorination	Jinchang Liu	Invited	China University of Mining and Technology (Beijing)	
11:35	11:50	Clay Minerals-Assisted Synthesis of Low-Dimensional Nanomaterials for Lithium-Ion Batteries	Lei Hou	Oral	Henan Polytechnic University	
11:50	12:05	Synergistic Templating-Activation of Coal-Tar-Derived Hierarchical Porous Carbon for Supercapacitors	Haojie Hou	Oral	Taiyuan University of Technology	
12:05	13:30	Lunch				

14:00	17:35	Day 3 Afternoon Session (14:00-17:35) November 22nd, 2026				Pengcheng Function Room 2 (B1)
		Chairs: Yaming Zhu, Yuting Zhuo				
14:00	14:25	Thermalchemically converting coal resources to functional carbonaceous materials for electrochemical energy storage	Fei Sun	Keynote	Harbin Institute of Technology	
14:25	14:50	Mild Conversion and High-Value Utilization of Lignite	Peng Li	Keynote	Zhengzhou University	
14:50	15:10	Microstructure Engineering and Kinetic-Matching Mechanism of Coal-Based Carbon Electrodes for High-Performance Lithium-Ion Capacitors	Xiaoxiao Qu	Invited	Henan Polytechnic University	
15:10	15:30	Low-Pt PtNiCo Alloy Supported on Coal-Derived Porous Carbon for Alkaline Hydrogen Evolution: Dual-Site Synergy	Lei Yang	Invited	Xinjiang Institute of Engineering	
15:30	16:00	Coffee Break				
		Chairs: Fei Sun, Peng Li				
16:00	16:25	A Study on the Structural Modulation and Electrochemical Energy Storage Properties of Asphalt and ZIF-Derived Carbon Materials	Yiming Liu	Keynote	Taiyuan University of Science and Technology	
16:25	16:50	Numerical Study of Electrolyser and Hydrogen Storage Design and Optimisation	Yuting Zhuo	Keynote	The University of New South Wales	
16:50	17:05	Closed Pore Engineering of Coal-Derived Hard Carbon via Multi-Pretreatment Strategies toward Enhanced Sodium-Ion Storage Performance	Yuhao Liu	Oral	Henan Polytechnic University	
17:05	17:20	Numerical and Experimental Analysis of Dual-Layer Bed Regeneration under Different Purge Flow Directions and Flow Rates in an Induction-Heated Dryer for PEM Water Electrolysis	Davaanyam Dorj	Oral	Pusan National University	
17:20	17:35	Green synthesis of porous carbon materials from coal tar for low-concentration methane enrichment: synergistic high value utilization and full-life-cycle carbon footprint assessment	Chujie Zhang	Oral	Taiyuan University of Technology	
18:00	19:30	Dinner				

Session V		Subject: Engineering Symposium on Carbon Capture, Utilization and Storage				
Start	End	Content				Location
14:00	17:45	Day 2 Afternoon Session (14:00-17:45) November 21st, 2026				Pengcheng Function Room 1 (B1)
		Chairs: Shijian Lu, Yingjie Li				
14:00	14:25	Solvent Development for CO_2 Chemical Absorption Process	Mengxiang Fang	Keynote	Zhejiang University	
14:25	14:50	A Study on Adsorption and Separation Materials for the Stepwise Upgrading of Low-Concentration Methane	Jiangfeng Yang	Keynote	Taiyuan University of Technology	
14:50	15:10	Hydrogen Proton-Transferable Amine Sites in Deep Eutectic Solvents Dictate CO_2 Capture Efficiency	Jinxiao Dou	Invited	University of Science and Technology Liaoning	
15:10	15:30	Atomic-Scale Zeolite Confinement Separation of CO_2	Tongwen Yu	Invited	Sun Yat-sen University	
15:30	16:00	Coffee Break				
		Chairs: Mengxiang Fang, Jiangfeng Yang				
16:00	16:25	Research Development and Industrial Demonstration on CO_2 Chemical and Biological Utilization	Jun Cheng	Keynote	Zhejiang University	
16:25	16:50	Performance Enhancement of CaO-Based Thermochemical Energy Storage Materials for CO_2 Adsorption/Desorption	Yingjie Li	Keynote	Shandong University	
16:50	17:10	Solid-Waste-Derived Solid Amine Adsorbents for Scalable CO_2 Capture	Feng Yan	Invited	Southern University of Science and Technology	
17:10	17:30	Sr-Promoted Co/CN Catalyst with Enhanced Oxygen Vacancy and Carbon Removal Capability for Pressurized Dry Reforming of Methane	Wen Tang	Invited	Huangshan University	
17:30	17:45	An effective strategy for clean production of coal-based humic acids by step-wise oxidation	Chuang Zhang	Oral	China University of Mining and Technology	
18:00	20:00	Welcome Banquet				

8:30	12:05	Day 3 Morning Session (8:30-12:05) November 22nd, 2026				Pengcheng Function Room 1 (B1)
		Chairs: Beiqi Sun, Zhao Sun				
8:30	8:55	High-Efficiency CO_2 Capture and Utilization	Shengping Wang	Keynote	Ningxia University	
8:55	9:20	A Study on Fracture and Fracture-Stopping Criteria for Industrial-Scale Long-Distance CO_2 Pipelines	Jianliang Yu	Keynote	Dalian University of Technology	
9:20	9:45	Design of Heat-Storage Catalysts for Thermochemical Processes	Kongzhai Li	Keynote	Kunming University of Science and Technology	
9:45	10:05	Tailoring the Interfacial Microenvironment of Copper Foam for Highly Efficient CO_2 Electroreduction to Ethylene	Zhitao Han	Invited	Dalian Maritime University	
10:05	10:35	Coffee Break				
		Chairs: Shengping Wang, Kongzhai Li				
10:35	11:00	Exploratory Research into the High-Value Utilisation of CO_2 through Chemical Conversion	Zhong Li	Keynote	Taiyuan University of Technology	
11:00	11:25	Development of High-Throughput Automated Carbon Capture Absorbents	Beiqi Sun	Keynote	Huaneng Clean Energy Research Institute	
11:25	11:45	Photo-Responsive Smart Adsorptive Separation	Shichao Qi	Invited	Nanjing Tech University	
11:45	12:05	Alcohol-assisted catalysis for methanol synthesis from CO_2 hydrogenation	Fei Chen	Invited	Zhengzhou University	
12:05	13:30	Lunch				

14:00	17:50	Day 3 Afternoon Session (14:00-17:50) November 22nd, 2026				Pengcheng Function Room 1 (B1)
		Chairs: Riguang Zhang, Shuangjun Li				
14:00	14:25	Electrochemical CO_2 Reduction to Value-Added Oxygenates	Sheng Zhang	Keynote	Tianjin University	
14:25	14:50	A Study on Electro-Swing Adsorption Technology for Direct Air Capture	Shihan Zhang	Keynote	Zhejiang University of Technology	
14:50	15:15	Low Energy Consumption CO_2 Absorption and Utilization Technology	Shijian Lu	Keynote	China University of Mining and Technology	
15:15	15:35	Regulation of the Site Environment of $NiAl_2O_4$ Spinels for Ambient Pressure CO_2 Methanation	Jie Ren	Invited	Hefei University of Technology	
15:35	16:05	Coffee Break				
		Chairs: Sheng Zhang, Shihan Zhang				
16:05	16:30	Design and Process Optimisation of Halogen-Free Multiphase Catalysts for Carbon Dioxide Cycloaddition Reactions	Riguang Zhang	Keynote	Taiyuan University of Technology	
16:30	16:55	Cotton-derived carbon aerogel used as binder-free CO_2 adsorbent	Shuangjun Li	Keynote	Tianjin University	
16:55	17:15	Engineering Dual Nickel Species for Highly Efficient CO_2 Methanation	Zhao Sun	Invited	Central South University	
17:15	17:35	Development and Pilot-Scale Evaluation of a Novel Low-Degradation CO_2 Absorbent	Chang Liu	Invited	Huaneng Clean Energy Research Institute	
17:35	17:50	Flash Joule Heating Conversion of Fluorine-Containing Silicon Residue into Silicon Carbide	Xiaoyu Chi	Oral	Taiyuan University of Technology	
18:00	19:30	Dinner				

Session VI		Subject: Coking and Combustion of Solid Fuels				
Start	End	Content				Location
14:00	17:40	Day 2 Afternoon Session (14:00-17:40) November 21st, 2026				Boardroom (B1)
		Chairs: Shaotao Bai, Pengxiang Zhao				
14:00	14:25	Physics-Informed AI for CFB Boiler Operation：From Trend Prediction to Field Reconstruction	Lunbo Duan	Keynote	Southeast University	
14:25	14:45	From External Excitation to Atmosphere Control: Suppressing Defluidization in Fluidized-Bed Direct Reduction of Iron with Hydrogen or Ammonia	Qiang Guo	Invited	Institute of Process Engineering, Chinese Academy of Sciences	
14:45	15:05	An Interpretable Large Language Model with Cokemaking-Oriented Prompt for Coke Quality Prediction	Yuhang Qiu	Invited	Jimei University	
15:05	15:20	Experimental Investigation of Ammonia Combustion and NO_x Emissions in a Bubbling Fluidized Bed Reactor	Haotian Ma	Oral	Pusan National University	
15:20	15:35	Investigation of sodium content and species on formation of condensable particulate matter from coal combustion	Chunhao Cai	Oral	Institute of Coal Chemistry, Chinese Academy of Sciences	
15:35	16:05	Coffee Break				
		Chairs: Qiang Guo, Jingchong Yan				
16:05	16:30	Development and Application of Catalysts for Oxo Synthesis and Hydrogenation	Shaotao Bai	Keynote	Shenzhen Polytechnic University	
16:30	16:50	Synergistic In-situ Control of NO/SO_2 and Heavy Metals during Co-combustion of Sewage Sludge with Coal	Jingchong Yan	Invited	Anhui University of Technology	
16:50	17:10	AI-Enabled Modeling, Control, and Fault Diagnosis for Digital Twin-Based Intelligent Coal Coking	Pengxiang Zhao	Invited	Wuhan University of Science and Technology	
17:10	17:25	Numerical Simulation of Combustion and NO_x Emissions for NH_3-Coal Cofiring in a 1000MW Wall-Fired Pulverized Coal Boiler	Hyung-Tae Kim	Oral	Pusan National University	
17:25	17:40	Numerical investigation of methane MILD combustion in an industrial-scale ammonia cracking furnace	Ngoc Vu Minh	Oral	Pusan National University	
18:00	20:00	Welcome Banquet				

Day 4 November 23rd, 2026		
Start	End	Content
8:30	17:00	Technical Trip for Foreign Participants / Departure for Local Participants

Day 5 November 24th, 2026		
Start	End	Content
8:30	17:00	Departure for Foreign Participants

Poster Session				
No.	Content			Location
1	Soft-Hard Carbon Composites Derived from Coal Tar Pitch and Phenolic Resin for High-Performance Sodium-Ion Battery Anodes	Huihui Zeng	Henan Polytechnic University	Pengcheng Function Room 1 (B1)
2	Preparation of enhanced spinnable mesophase pitch and split-free carbon fibers via copolymerization of coal liquefaction pitch and synthetic pitch	Xiongchao Lin	China University of Mining and Technology (Beijing)	
3	Mitigating "Electrostrictive" Coupled-Disruption and Crafting Endogenous Solid-Liquid Interface towards Mixed Phosphate Cathode for Sodium-Ion Batteries	Yian Wang	Soochow University	
4	Enhancing hydrogen transfer via synergistic Cu^{+}/Brønsted acid sites for efficient upgrading of lignite pyrolysis volatiles to light aromatics	Junyu Xiang	China University of Mining and Technology	
5	Effects of Si/Al Ratio on Potassium Speciation Transformation and Melting Behavior of Peanut Shell Ash	Ziliang Zhang	Nanjing Forestry University	
6	Dielectric Barrier Discharge-Assisted Pyrolysis of Carbon-Rich Solid Feedstocks for Enhanced Hydrogen Production and Value-Added Carbon Formation	Nawal Al-Muntaser	China University of Mining and Technology	
7	Fast recovery of spent lithium-ion batteries via gas-induced reduction using infrared ex-situ pyrolysis	Moshan Li	Monash University	
8	Interfacial Programming of *CHO toward Ethanol Electrosynthesis over CuO/Cu-pyridinic N tandem Catalysts	Xinyue Wang	Tianjin University	
9	Hydrodeoxygenation of lignite model compounds to produce aromatics using a Zr-modified Ni/Al_2O_3 catalyst	Wei Jiang	China University of Mining and Technology	

Introduction to the Hosts

China University of Mining and Technology

Founded in 1909 as Jiaozuo Road-Mining School, China University of Mining and Technology (CUMT) is a leading national key university under the direct administration of the Ministry of Education of China, and a participant in the national Project 211, 985 Innovation Platform for Advantageous Disciplines and the Double First-Class Initiative. Located in Xuzhou, Jiangsu Province, the university operates two campuses: Nanhu and Wenchang.

CUMT features a multi-disciplinary framework dominated by science and engineering with distinctive strengths in energy and resources. It hosts 2 national Double First-Class disciplines, a complete set of doctoral and master-degree authorization programs, 72 undergraduate majors, and more than 40100 full-time students including undergraduates, postgraduates and international students. Ten disciplines rank among the global top 1% of the ESI rankings, with four entering the global top 1‰. Mineral & Mining Engineering has consistently ranked among the world's top 50 by QS, reaching 14th globally in 2025.

The university maintains a high-level faculty team of over 2,200 full-time teachers, including academicians of the Chinese Academy of Sciences and Chinese Academy of Engineering, numerous national-level distinguished scholars, and well-established innovation research groups.

Committed to global engagement, CUMT has built partnerships with 166 universities and institutions across 51 countries. It initiated the International Higher-Education Alliance for Mining, Energy and Environment, and functions as the flagship host in China for the UNESCO International Capacity-Building Centre for Mining Engineering Education. The university runs Sino-foreign joint programs, publishes four international academic journals, and hosts major international conferences covering mining, energy, resources and environmental sustainability.

Carrying forward its century-old spirit of Self-improvement, Hard-work and Pursuit of Excellence, CUMT strives toward its long-term goal: building a world-class university featuring energy-resources disciplines by the mid-21st century.

