



第九届能源、资源、环境与可持续发展国际会议

The 9th International Conference on Energy, Resources, Environment and Sustainable Development

Session 2: Environmental Science and Engineering

CONFERENCE PROGRAM

Energy, Resources, Environment and Sustainable Development
in the Context of Carbon Peaking and Carbon Neutrality

May 26-27, 2022 Xuzhou, China





Session Topics 2: Environmental Science and Engineering

➤ Time (GMT+8): May 26, Thursday

Time	Title
13:50-14:00	Opening Speech Nanshan ZHENG/Zhenqi HU, School of Environment Science and Spatial Informatics, China University of Mining and Technology
Moderator: Zhenqi HU, Qixing ZHOU	
14:00-14:30	Monitoring the Efficiency of Reclamation of Depleted Coal Deposits Maria A. Pashkevich, Saint Petersburg Mining University
14:30-15:00	Petroleum-Contaminated Soil Remediation and Carbon Neutralization Qixing ZHOU, Nankai University
15:00-15:20	The Effectiveness of Typha Angustifolia as Phytoremediation Agent for Heavy Metals (Fe, Mn) Reduction in the Coal Mining Operation Heru Suharyadi, UPN Veteran Yogyakarta
15:20-15:35	Toxicity of Heavy Metals and Detoxification of Sulfate in Crops in Mining Areas Xin XIAO, China University of Mining and Technology
15:35-15:50	A New Approach to Increase Land Reclamation Rate in Coal Mining Subsidence Area: A Case Study of Guqiao Coal Mine, China Gensheng LI, China University of Mining and Technology
15:50-16:00	Break
Moderator: Lizhang WANG, Mindong BAI	
16:00-16:30	Studies on the Red Tide Algae of Rapid Inactivation Using Hydroxyl Radicals and Carbon Sequestration into the Seabed Mindong BAI, Xiamen University
16:30-17:00	Isotope Effects as Analytical Probes to Decipher Dehalogenation Mechanisms Agnieszka Dybala-Defratyka, Lodz University of Technology
17:00-17:20	Laboratory Simulation in Developing the Swampy Forest System for Passive Treatment of Acid Mine Drainage Ihsan Noor, University of Lambung Mangkurat, Indonesia
17:20-17:30	Exploration of Coal Slurry Sedimentation Characteristics from the Perspective of Clay Behavior Bingfeng LIU, China University of Mining and Technology
17:30-17:40	Preparation of a Novel Z-Scheme Photocatalyst for Round-the-Clock Organic Pollutants Degradation with Simultaneous Hydrogen Production Jianhe TANG, Liaoning University
17:40-17:50	Investigation on the Bubbling Behavior in the Flat Sheet Membrane Reactor (FSMBR) Haiqiang YANG, East China University of Science and Technology
17:50-18:00	Gold Extraction and Recovery from Aqueous Solution Using Electrocoagulation Coupled Nanofiltration Process Guofu DAI, China University of Mining and Technology



➤ **Time (GMT+8): May 27, Friday**

Time	Title
Moderator: Shaoliang ZHANG, Guohe HUANG	
08:30-08:50	Mapping the Cumulative Impacts of Long-Term Mining Disturbance and Progressive Rehabilitation on Ecosystem Services Zhenyu WANG, Peking University Shenzhen Graduate School
08:50-09:05	Effect of Non-Ammonium Leaching Agent of Ion-Adsorption Rare Earth Ore on Soil Properties Yong HE, Nanchang University
09:05-09:20	Evaluation of Soil Quality and Maize Growth in Different Profiles of Coal Gangue Filling Reclaimed Land Shuguang LIU, China University of Mining and Technology
09:20-09:40	Research on Soil Nutrient Prediction Method Based on UAV Hyperspectral Image in Mining Area Zhanjun XU, Shanxi Agricultural University
09:40-09:55	Evaluation of Intensive Utilization of Land Use in Rural Settlements from the Perspective of Double Carbon: A Case Study of Yishui County, Shandong Province Shuangrong CAI, China University of Mining and Technology
09:55-10:10	Extraction of Ecological Restoration Zones in the Yellow River Basin and its Impact on the Temporal and Spatial Dynamics of Ecosystems Yuhang ZHANG, China University of Mining and Technology
10:10-10:20	Break
Moderator: Jiang CHANG, Wu XIAO	
10:20-10:50	How to Improve the Continuity and Sustainable Utilization of Farmland in China- A Perspective from Sustainability, Efficiency, and Trade-Offs Wu XIAO, Zhejiang University
10:50-11:05	Case Study: Sustainable Rammed Earth Model House Hota Gangarao/ Celina LIANG, West Virginia University
11:05-11:20	Study on the Contribution of Ecological Resources to Ecotourism Economy and Sustainable Development Rong LI, Nanjing University
11:20-11:35	Application of High Density Organic Material in Soils Provides a Potential Measure for Organic Byproducts Recycling and Soil Fertility Elevating Yulin ZHANG, Northwest A & F University
11:35-11:45	Effect of Contact Angle Hysteresis on Measurement Methods of Unsaturated Soil Matrix Suction Chuan ZHANG, China University of Mining and Technology Agricultural University
11:45-11:55	Technique of Concurrent Mining and Reclamation in Multiple-Seams Repeated Mining with High Underground Water Table Zhanjie FENG, China University of Mining and Technology
11:55-12:05	A Predicting Method for Mining and Reclamation Impact on Carbon Storage: A Case Study of Yanzhou Coalfield Jiazheng HAN, China University of Mining and Technology



12:05-12:15	Estimation of PM_{2.5} and PM₁₀ Mass Concentrations in Mining City Cluster from Gaofen-1 Aerosol Optical Depth Data and the WRF-Chem Model Yuxin SUN , China University of Mining and Technology
12:15-12:30	Advanced CFD and Measurement Technology for the Study of Multiphase Flow in a media with complex structures Wei DING/Markus Schubert , Helmholtz center, Germany

➤ **Time (GMT+8): May 27, Friday**

Time	Title
Moderator: Yong XUE, Costas A. VAROTSOS	
14:00-14:30	Advanced Nowcasting Technology for Remote Sensing Costas A. VAROTSOS , National and Kapodistrian University of Athen
14:30-15:00	Towards Future Smart Cities Wenzhong SHI , The Hong Kong Polytechnic University
15:00-15:25	Urban Space and Function Optimal Allocation for Reducing Carbon Emission Based on Crowd-Sourced Spatio-Temporal Big Data Qianxin WANG , China University of Mining and Technology
15:25-15:30	Break
Moderator: Lianbi ZHOU, Yanzhu ZHANG	
15:30-16:00	Environmental Risk and Prevention and Control of Non-Ferrous Metal Tailings Pond Lianbi ZHOU , Beijing General Research Institute of Mining & Metallurgy
16:00-16:20	Global Climate Policy: Mitigation and Adaptation Jingjing GAO , UNEP Copenhagen Climate Centre
16:20-16:40	Synergies of Mining and Resource Cooperation along the Belt and Road under the Carbon Neutrality Landscape Yanzhu ZHANG , Foreign Environmental Cooperation Center, Ministry of Ecology and Environment of China/German Development Institute



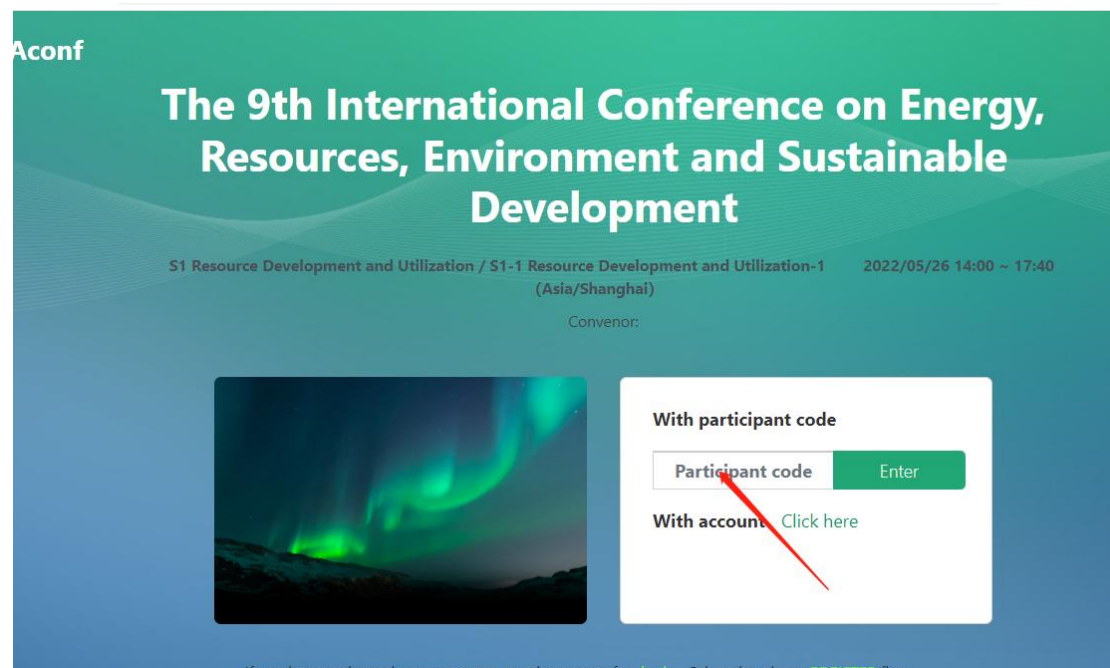
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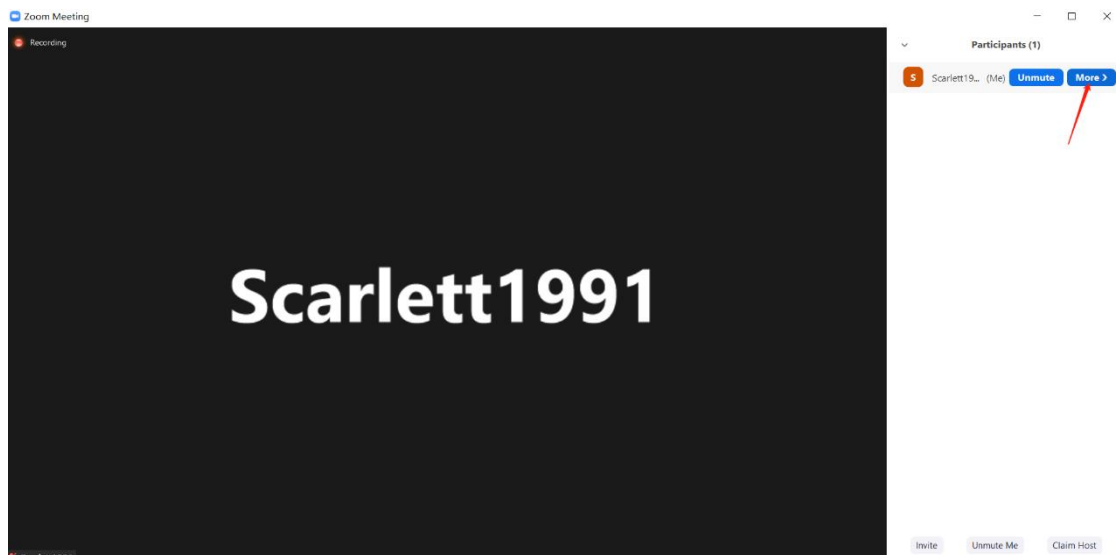
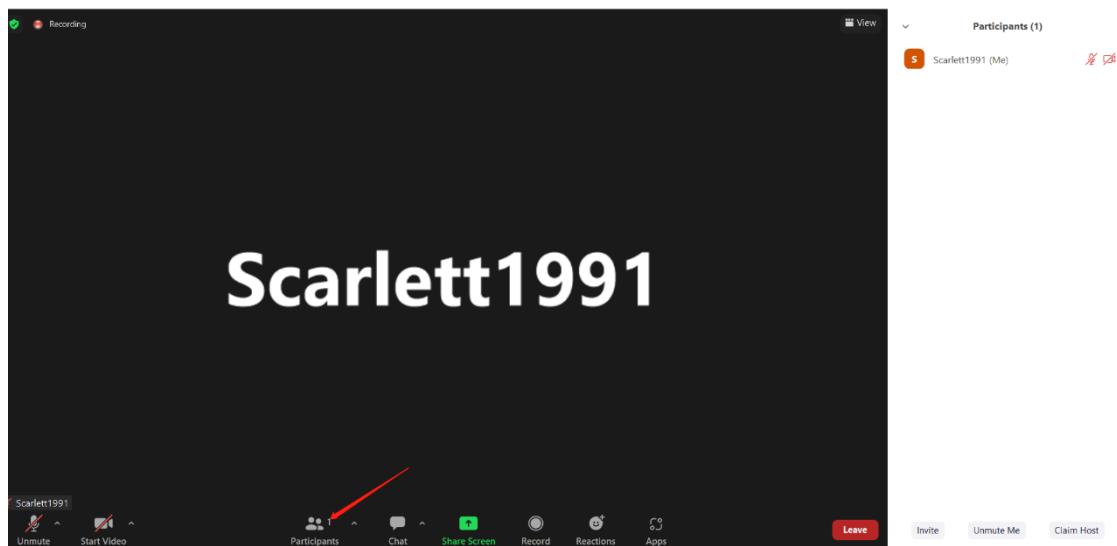
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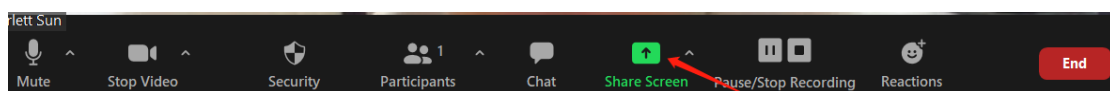
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