

## WSF-12 Program Overview

|           | 21 August 2026<br>Friday      | 22 August 2026<br>Saturday           | 23 August 2026<br>Sunday             | 24 August 2026<br>Monday |
|-----------|-------------------------------|--------------------------------------|--------------------------------------|--------------------------|
| Morning   |                               | Registration Check-in<br>(7:30-9:00) | Registration Check-in<br>(8:00-9:00) | Technical Visit          |
|           |                               | Opening Ceremony                     | Plenary Talks                        |                          |
|           |                               | Plenary Talks                        |                                      |                          |
|           |                               | Tea Break                            | Parallel Sessions                    |                          |
|           |                               | Plenary Panel Discussion             | Parallel Sessions                    |                          |
|           |                               | Lunch Break                          | Lunch Break                          |                          |
| Afternoon | Registration<br>(14:00-17:00) | Parallel Sessions                    | Parallel Sessions                    |                          |
|           |                               | Tea Break & Poster<br>Session        | Tea Break                            |                          |
|           |                               |                                      | Parallel Sessions                    |                          |
|           |                               | Parallel Sessions                    |                                      |                          |
|           |                               | Banquet Dinner                       |                                      |                          |

| Saturday, 22 August 2026 |                                         |             |             |             |             |             |             |             |             |             |             |
|--------------------------|-----------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Room No.</b>          | <b>Lam Chik Ho Lecture Theatre Z209</b> |             |             |             |             |             |             |             |             |             |             |
| <b>7:30-9:00</b>         | <b>Registration Check-in</b>            |             |             |             |             |             |             |             |             |             |             |
| 9:00-9:30                | Opening Ceremony                        |             |             |             |             |             |             |             |             |             |             |
| 9:30-10:50               | Plenary Talks                           |             |             |             |             |             |             |             |             |             |             |
| <b>10:50-11:20</b>       | <b>Tea Break</b>                        |             |             |             |             |             |             |             |             |             |             |
| 11:20-12:20              | Plenary Panel Discussion                |             |             |             |             |             |             |             |             |             |             |
| <b>12:30-14:00</b>       | <b>Lunch Break</b>                      |             |             |             |             |             |             |             |             |             |             |
| <b>Room No.</b>          | <b>Z414</b>                             | <b>Z210</b> | <b>Z405</b> | <b>Z406</b> | <b>Z208</b> | <b>Z409</b> | <b>Z204</b> | <b>Z206</b> | <b>Z212</b> | <b>Z410</b> | <b>Z411</b> |
| 14:00-15:30              | S1                                      | S2          | S3          | S4          | S5          | S6          | S7          | S8          | S9          | S10         | S11         |
| <b>15:30-16:15</b>       | <b>Tea Break &amp; Poster Session</b>   |             |             |             |             |             |             |             |             |             |             |
| 16:15-18:00              | S1                                      | S2          | S3          | S4          | S5          | S6          | S7          | S8          | S9          | S10         | S11         |
| <b>19:00-21:00</b>       | <b>Banquet Dinner</b>                   |             |             |             |             |             |             |             |             |             |             |

| Sunday, 23 August 2026 |                                             |             |             |             |             |             |             |             |             |             |             |
|------------------------|---------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Room No.</b>        | <b>Lam Chik Ho Lecture Theatre Z209</b>     |             |             |             |             |             |             |             |             |             |             |
| <b>8: 00-9:00</b>      | <b>Registration Check-in</b>                |             |             |             |             |             |             |             |             |             |             |
| 9:00-10:20             | Plenary Talks                               |             |             |             |             |             |             |             |             |             |             |
| <b>10:20-11:00</b>     | <b>Tea Break &amp; Poster Session</b>       |             |             |             |             |             |             |             |             |             |             |
| <b>Room No.</b>        | <b>Z414</b>                                 | <b>Z210</b> | <b>Z405</b> | <b>Z406</b> | <b>Z208</b> | <b>Z409</b> | <b>Z204</b> | <b>Z206</b> | <b>Z212</b> | <b>Z410</b> | <b>Z411</b> |
| 11:00-12:30            | S1                                          | /           | S3          | S4          | S5          | S6          | S7          | S8          | S9          | S10         | S11         |
| <b>12:30-14:00</b>     | <b>Lunch Break</b>                          |             |             |             |             |             |             |             |             |             |             |
| 14:00-15:30            | S1                                          | /           | S3          | S4          | /           | S6          | S7          | S8          | S9          | S10         | S11         |
| <b>15:30-16:00</b>     | <b>Tea Break</b>                            |             |             |             |             |             |             |             |             |             |             |
| 16:00-17:30            | S1                                          | /           | S3          | S4          | /           | S6          | S7          | S8          | /           | /           | /           |
| <b>17:30-18:00</b>     | <b>Award Ceremony &amp; Closing Remarks</b> |             |             |             |             |             |             |             |             |             |             |

## WSF-12 Detailed Program

### Opening Ceremony and Plenary Talks:

| Saturday, 22 August 2026<br>Lam Chik Ho Lecture Theatre Z209 |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time                                                         | Type                                                                             | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Chaired by Prof. Dr. Vivien Lu                               |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9:00-9:30                                                    | Opening Ceremony                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chaired by Prof. Dr. Mark A. Bonn                            |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9:30-10:10                                                   | Plenary Talk                                                                     | Metamaterials for Sustainability<br>Xiaobo Yin, The University of Hong Kong, China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 10:10-10:50                                                  | Plenary Talk                                                                     | The transition to a circular economy – some (in)convenient truths<br>Arnold Tukker, Leiden University, Institute of Environmental Sciences (CML), Netherlands; Netherlands Organisation for Applied Scientific Research TNO, Netherlands                                                                                                                                                                                                                                                                                                                                       |
| 10:50-11:20                                                  | Tea Break                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 11:20-12:20                                                  | Plenary Panel Discussion<br>“Connecting Sustainability Solutions Across Sectors” | Moderator:<br>Max Bergman, University of Basel, Switzerland<br><br>Plenary Panelists:<br>Abdelbagi M. Ismail, International Rice Research Institute (IRRI), Nairobi, Kenya<br>Katrina M. Knauer, University of Colorado Boulder, Boulder, USA; National Laboratory of the Rockies (NLR), Golden, USA<br>Mouyuan Wu, Vice President of CNPC Economics & Technology Research Institute and the Executive Deputy Director of CNPC National High-End Think Tank Research Center<br>Yonghai Du, Chief Innovation Officer<br>Yu Hao: Beijing Institute of Technology, Beijing, China |
| 12:30-14:00                                                  | Lunch Break                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Sunday, 23 August 2026<br>Lam Chik Ho Lecture Theatre Z209 |                                       |                                                                                                                                                 |
|------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Time                                                       | Speaker                               | Title                                                                                                                                           |
| Chaired by <b>Prof. Dr. Weiqi Zhou</b>                     |                                       |                                                                                                                                                 |
| 9:00-9:40                                                  | <b>Plenary Talk</b>                   | Recent advances in RuO <sub>2</sub> -based electrocatalysts for acidic OER in PEMWE<br><b>Zongping Shao</b> , Curtin University, Australia      |
| 9:40-10:20                                                 | <b>Plenary Talk</b>                   | Generative AI , and the Transformation of Sustainable Urban Planning<br><b>Tan Yigitcanlar</b> , Queensland University of Technology, Australia |
| <b>10:20-11:00</b>                                         | <b>Tea Break &amp; Poster Session</b> |                                                                                                                                                 |

## Parallel Sessions:

### S1. Emerging Technologies and Integrated Solutions for Sustainable, Resilient Cities and Planet

*Saturday, 22 August 2026*

*Room: Z414*

| Time               | Speaker                                         | Title                                                                                                                                                   |
|--------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Jianming Cai</b><br>Keynote Talk             | Perspective on the evolution of China's agricultural technologies and its impacts on food safety/security                                               |
| 14:30-14:50        | <b>Wei Huang</b><br>Invited Talk                | Enabling AI to understand pedestrian environments like humans                                                                                           |
| 14:50-15:05        | <b>Zhu Chang</b><br>Oral Presentation           | Research on technical pathway for retrofitting transparent envelope in the Solar Energy Enrichment Area                                                 |
| 15:05-15:20        | <b>Wentao Zeng</b><br>Oral Presentation         | Validating Immersive Virtual Reality for Age-Friendly Daylighting Design: A Paired Real and Virtual Environment Study with Older People                 |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>           |                                                                                                                                                         |
| 16:15-16:30        | <b>Hongbin An</b><br>Oral Presentation          | Enhancing Urban Infrastructure Resilience through Blockchain-Driven Quality Traceability in Underground Construction                                    |
| 16:30-16:45        | <b>Mona Alsomali</b><br>Oral Presentation       | Human Sustainability: Integrating Personal, Planetary, and Societal Wellness for a Thriving Future                                                      |
| 16:45-17:00        | <b>Hang Yuan</b><br>Oral Presentation           | Intercity AI Technology Collaboration and Haze Pollution Intensity Reduction: Evidence from Chinese Cities                                              |
| 17:00-17:15        | <b>Clara Vite</b><br>Oral Presentation          | Emerging Living Wall Systems for Urban Resilience: An Integrated Technical and Economic Evaluation                                                      |
| 17:15-17:30        | <b>Kenny Louie Menor</b><br>Oral Presentation   | Syngas Production from Corn Stover: Investigating the Effects of Steam, Temperature, and Catalytic Loading in a Fixed-bed Reactor                       |
| 17:30-17:45        | <b>Louis Shing Him Lee</b><br>Oral Presentation | Scanning our urban forest: Assessing the accuracy of mobile LiDAR scanning results of a green corridor in a Hong Kong                                   |
| 17:45-18:00        | <b>Jinyoung Lee</b><br>Oral Presentation        | Enhancing Wellbeing in Windowless Built Environments through Synthetic Sunlight: A System-Based Emotional Design Approach                               |
| 18:00-18:15        | <b>Luqi Yang</b><br>Oral Presentation           | Longitudinal exploration of financial performance and firm characteristics on sustainability: Insights from the hospitality industry amid global crises |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                           |                                                                                                                                                         |

### S1. Emerging Technologies and Integrated Solutions for Sustainable, Resilient Cities and Planet

*Sunday, 23 August 2026*

*Room: Z414*

| Time               | Speaker                                                | Title                                                                                                                                                                                                         |
|--------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:00-11:30        | <b>Xintao Liu</b><br>Keynote Talk                      | Spatial Data Science and Smart Cities in Hong Kong                                                                                                                                                            |
| 11:30-11:45        | <b>Abdulaziz Aldossary</b><br>Oral Presentation        | Machine Learning-Based CO <sub>2</sub> Emissions Forecasting: A Case Study of Gas Processing and Production Facilities                                                                                        |
| 11:45-12:00        | <b>Yi Gu</b><br>Oral Presentation                      | Disaster-Triggered Food-Sensitive Governance: Shared Community Gardens as an Emerging Urban Food Resilience Solution in Zhengzhou, China                                                                      |
| 12:00-12:15        | <b>Lyubomyr Matsekh-Ukrayinky</b><br>Oral Presentation | Application of the Power Flow Tracing approach to determine the source of origin and CO <sub>2</sub> emissions from consumed electricity                                                                      |
| 12:15-12:30        | <b>Li Jiang</b><br>Oral Presentation                   | Inverted U-shaped Relationship between Technological Innovation and Triple Bottom Line-Based Measure of Agribusiness Supply Chain Sustainability: Different Strokes for Different Folks in the European Union |
| <b>12:30-14:00</b> | <b>Lunch Break</b>                                     |                                                                                                                                                                                                               |
| 14:00-14:30        | <b>Amir H Gandomi</b><br>Keynote Talk                  | Toward Sustainable and Resilient Cities: The Convergence of Data, AI, and Infrastructure Systems                                                                                                              |
| 14:30-14:45        | <b>Kalid Hassen Yasin</b><br>Oral Presentation         | Machine Learning and Sentinel-1 SAR Enable Flood Susceptibility Mapping Under Current and Future Climate Scenarios in Data-Scarce Eastern Ethiopia                                                            |
| 14:45-15:00        | <b>Thomas Lei</b><br>Oral Presentation                 | A Comparative Assessment of Heavy Metals in Outdoor and Indoor Dust and Its Implications for Sustainable Development in Macao                                                                                 |

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|--------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:00-15:15        | <b>Boris Kriuk</b><br>Oral Presentation                     | Seismic Multi-Hazard Risk Mapping for Sustainable Urban Resilience Using Physics-Informed Deep Learning                                                  |
| 15:15-15:30        | <b>Muchaiteyi Togo</b><br>Oral Presentation                 | The intensity and drivers of WEF insecurities – A comparative study of low-income suburbs in Harare, Zimbabwe and Soweto, South Africa                   |
| <b>15:30-16:00</b> | <b>Tea Break</b>                                            |                                                                                                                                                          |
| 16:00-16:15        | <b>Reazul Ahsan</b><br>Oral Presentation                    | Beyond the Smart City: Integrating Data-Centre Urbanism into Innovative Pathways for Sustainable and Resilient Cities – Lessons from Songdo, South Korea |
| 16:15-16:30        | <b>Qianyi Luo</b><br>Oral Presentation                      | When Good Cities Feel Bad: The Perception Gap in Evidence-Based Urban Governance in Chinese Cities                                                       |
| 16:30-16:45        | <b>Ndzivalelo Celebration Maluleke</b><br>Oral Presentation | Microplastic accumulation and release pathways from carwash vacuum cleaner waste in a developing urban environment                                       |
| 16:45-17:00        | <b>Qianxiang Yao</b><br>Oral Presentation                   | Autonomous Flight and Spatial Intelligence through Living Structure                                                                                      |
| 17:00-17:15        | <b>Lu Yang</b><br>Oral Presentation                         | Color-Based Visual Comfort Optimization of Semitransparent Photovoltaic Windows across Climate Zones                                                     |
| 17:15-17:30        | <b>Thai Son Chu</b><br>Oral Presentation                    | AI-Powered Social Innovation: Driving the Triple-Zero Agenda through Technology-Enabled Social Enterprises                                               |
| <b>17:30-18:00</b> | <b>Award Ceremony &amp; Closing Remarks</b>                 |                                                                                                                                                          |

## S2. Resilient Urban Energy Infrastructure

*Saturday, 22 August 2026  
Room: Z210*

| Time               | Speaker                                        | Title                                                                                                                                                                   |
|--------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Ye Guo</b><br>Keynote Talk                  | Decentralized Market Design for Joint Energy, Carbon, and Green Certificate Markets: Achieving System-wide RPS Compliance and Equilibrium–Social Optimality Equivalence |
| 14:30-15:00        | <b>Yu Hao</b><br>Keynote Talk                  | Extreme Weather Shocks and Urban Energy Infrastructure Resilience in China: Evidence from Daily Nighttime Lights                                                        |
| 15:00-15:30        | <b>Junhua Zhao</b><br>Keynote Talk             | LLM Agents for Power Systems – Human-AI coordination, techniques and paradigm shift                                                                                     |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>          |                                                                                                                                                                         |
| 16:15-16:30        | <b>Suhrim Paek</b><br>Oral Presentation        | Resilient Urban Energy Infrastructure in Dense Asian Cities: A Comparative Study of South Korea and Singapore under Rising Heat Stress                                  |
| 16:30-16:45        | <b>Qingkai Chen</b><br>Oral Presentation       | Pathways to Zero-Carbon Coastal Development: Insights from Low-Carbon Island Practices in China                                                                         |
| 16:45-17:00        | <b>Jia Yi Ng</b><br>Oral Presentation          | Representing Industrial Heat at High Fidelity Is Key to Reliable Energy Infrastructure for Singapore's Net-Zero Transition                                              |
| 17:00-17:15        | <b>Yunchao Qi</b><br>Oral Presentation         | Mechanisms and Resource Efficiency Enhancement of Coal Bio-Methanation by a Corn-Stover-Biochar–Lignite Co-Loading System                                               |
| 17:15-17:30        | <b>Abdul Saboor Noori</b><br>Oral Presentation | Strengthening Community Resilience to Emerging Chemical Risks in Afghanistan: Integrating INGO-Led Health Protection and Sustainability Education                       |
| 17:30-18:00        | <b>Mouyuan Wu</b><br>Keynote Talk              | Building Energy Resilient Cities for Urban Safety and Sustainable Development                                                                                           |
| 18:00-18:30        | <b>Fanghui Yin</b><br>Keynote Talk             | TBD                                                                                                                                                                     |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                          |                                                                                                                                                                         |

**S3. Sustainability Education and Innovative Approaches***Saturday, 22 August 2026**Room: Z405*

| Time               | Speaker                                             | Title                                                                                                                                                                |
|--------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Heng Luo</b><br>Keynote Talk                     | Bridging New Technologies with Foundational Theories: Sustainable Innovation for Student Growth                                                                      |
| 14:30-14:50        | <b>Janet K.Y. Chan</b><br>Invited Talk              | Bridging the Knowledge-Action Gap in Sustainability Education: From HKU Climate Ambassador to the Cross-Institutional University Climate Ambassador Program (UNICAP) |
| 14:50-15:10        | <b>Aldo Stroebe</b><br>Invited Talk                 | Strengthening Agricultural Research and Innovation (SARI) in South Africa: A Case Study                                                                              |
| 15:10-15:25        | <b>Oana-Daniela Modrogeanu</b><br>Oral Presentation | Beyond Awareness: Converting Environmental Knowledge Into Pro-Environmental Behavior in Aquatic Systems                                                              |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>               |                                                                                                                                                                      |
| 16:15-16:45        | <b>Rustam Shadiey</b><br>Keynote Talk               | Addressing Sustainability Challenges through Education: Integrating Situated Learning, Global Collaboration, and Emerging Technologies                               |
| 16:45-17:00        | <b>Alice Yip</b><br>Oral Presentation               | Molding a New Narrative: Sustainable Education and the Healing Power of Ceramics for Rheumatoid Arthritis Patients in Hong Kong                                      |
| 17:00-17:15        | <b>Wenxuan Ma</b><br>Oral Presentation              | Nature-Based Sustainability Education: Multiple Pathways Linking Birdwatching to Pro-environmental Behaviour                                                         |
| 17:15-17:30        | <b>Xiayu Li</b><br>Oral Presentation                | A systematic review of using AI technologies to foster teachers' sustainable development: Insights from instructional design principles                              |
| 17:30-17:45        | <b>Grazia Ragazzi</b><br>Oral Presentation          | From a European Conventional Blended Intensive Programme To A Multigenerational Worldwide Event                                                                      |
| 17:45-18:00        | <b>Martha Matashu</b><br>Oral Presentation          | Capability Approach a normative framework for contextualising the epistemology of Education for Sustainability in underdeveloped Sub Saharan Africa countries        |
| 18:00-18:15        | <b>Gideon Walter Mutanda</b><br>Oral Presentation   | Effectiveness of experiential learning in enhancing ocean literacy in the Global South                                                                               |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                               |                                                                                                                                                                      |

**S3. Sustainability Education and Innovative Approaches***Sunday, 23 August 2026**Room: Z405*

| Time               | Speaker                                           | Title                                                                                                                                       |
|--------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 11:00-11:30        | <b>Thandi Mgwebi</b><br>Keynote Talk              | Sustainability from the margins: Why place-based universities matter for the Planet's future                                                |
| 11:30-11:50        | <b>Wu-Yuin Hwang</b><br>Invited Talk              | Effect of a sustainable and smart context-aware learning system on English writing and speaking                                             |
| 11:50-12:05        | <b>Allan, Beng Hock Chia</b><br>Oral Presentation | Sustainability Education for Reintegration: The SUSS Prison School Project as an Innovative Model for Societal Resilience                   |
| 12:05-12:20        | <b>Zi Wang</b><br>Oral Presentation               | Learning for Sustainability Through an Animal's Eyes: Immersive Virtual Reality in Primary School Sustainability Education                  |
| <b>12:20-14:00</b> | <b>Lunch Break</b>                                |                                                                                                                                             |
| 14:00-14:15        | <b>Dinie Van Den Heuvel</b><br>Oral Presentation  | How Sustainable Fashion Education Can Question Its Implicit Assumptions; a Cross-Cultural Collaborative Dialogue                            |
| 14:15-14:30        | <b>Nitish Kumar Singh</b><br>Oral Presentation    | Developing sustainable behaviour in university students: an integration of the COM-B model and the Theoretical Domains Framework (TDF)      |
| 14:30-14:45        | <b>Efstathios Loupas</b><br>Oral Presentation     | Climate Change Education and Circular Economy: The Role of Secondary Education in Promoting Sustainable Development and Resource Efficiency |
| 14:45-15:00        | <b>Cherryl E. Berin</b><br>Oral Presentation      | Conceptualizing An Integrative Framework of Environmental Sustainability Communication (ESC)                                                |
| 15:00-15:15        | <b>Lenard Bien</b><br>Oral Presentation           | Sustainability Literacy Among Selected Local University Filipino Students: An Exploratory Survey                                            |
| 15:15-15:30        | <b>June Wee</b><br>Oral Presentation              | Dialogues for a Sustainable Tomorrow: Cultivating Critical Thinking Using Socratic Pedagogy                                                 |
| <b>15:30-16:00</b> | <b>Tea Break</b>                                  |                                                                                                                                             |

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| 16:00-16:20        | <b>Elena Cristina Rada</b><br>Invited Talk  | Edu4Plastic Innovative Education For A Regenerative Future                                                                                        |
| 16:20-16:35        | <b>Ying Kong</b><br>Oral Presentation       | Community-Focused and Location-Based: Indigenous Models for Teaching Sustainability in Northern Manitoba                                          |
| 16:35-16:50        | <b>Aparna Kadiyala</b><br>Oral Presentation | Factors associated with Awareness, measurement of carbon footprints and associated sustainable practices in academic institutions                 |
| 16:50-17:05        | <b>Harshini Suresh</b><br>Oral Presentation | Embedding Planetary Health in the UK Medical Curriculum: Lessons from the Planetary Health Report Card and a Framework for Consistent Integration |
| 17:05-17:20        | <b>Ashley Thian</b><br>Oral Presentation    | Students as Changemakers: Fostering Interdisciplinary Engagement in Sustainable Healthcare                                                        |
| <b>17:30-18:00</b> | <b>Award Ceremony &amp; Closing Remarks</b> |                                                                                                                                                   |

#### S4. Climate Change and Socio-Ecological Systems

*Saturday, 22 August 2026  
Room: Z406*

| Time               | Speaker                                              | Title                                                                                                                                                 |
|--------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Daniele La Rosa</b><br>Keynote Talk               | TBD                                                                                                                                                   |
| 14:30-14:50        | <b>Riccardo Privitera</b><br>Invited Talk            | Urban nature to cope with climate change. A socio-economic investment model for nature-based solutions in cities                                      |
| 14:50-15:05        | <b>Oluwafemi Kehinde Akande</b><br>Oral Presentation | Sanitation, Drainage and Informal Market Morphologies: Socio-Ecological Risks and Climate Adaptation Pathways in Traditional Urban Markets of Nigeria |
| 15:05-15:20        | <b>Caryll Bern Fuchigami</b><br>Oral Presentation    | Community-Based Climate-Adaptive Architecture: Translating Lived Experiences into Design Guidelines for Coastal and Inland Philippine Communities     |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>                |                                                                                                                                                       |
| 16:15-16:45        | <b>Abdelbagi M. Ismail</b><br>Keynote Talk           | Enhancing Rice Climate Resilience to Sustain Productivity, Combat Rural Poverty and Ensure Food and Income Security                                   |
| 16:45-17:05        | <b>Mengqian Lu</b><br>Invited Talk                   | Climate Intelligence for A Better Future: Planet, People and Prosperity                                                                               |
| 17:05-17:20        | <b>Gopikrishna Sreelatha</b><br>Oral Presentation    | Mapping a Decade of LST Change in a Small Coastal Town of the Global South: Evidence from Alappuzha, Kerala                                           |
| 17:20-17:35        | <b>Shijia Wang</b><br>Oral Presentation              | Diagnosing Village Socio-Ecological Resilience: A Spatial-Media-Based Framework for Differentiated Vulnerability Identification                       |
| 17:35-17:50        | <b>Haripriya Baiju Smitha</b><br>Oral Presentation   | Thermal Reassessment of Urban Water Bodies: A Site-Specific Study in Coimbatore                                                                       |
| 17:50-18:05        | <b>Mariacristina Sipala</b><br>Oral Presentation     | Urban trees for climate adaptation: a spatially explicit approach to identify priority areas for urban greening interventions                         |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                                |                                                                                                                                                       |

#### S4. Climate Change and Socio-Ecological Systems

*Sunday, 23 August 2026  
Room: Z406*

| Time        | Speaker                                                   | Title                                                                                                                                                           |
|-------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:00-11:20 | <b>Cigdem Coskun Hepcan</b><br>Invited Talk               | Not All Schools Are Green: A Spatial Analysis of Tree Canopy Inequality and Heat Exposure in İzmir Türkiye                                                      |
| 11:20-11:35 | <b>Pingping Tian</b><br>Oral Presentation                 | Coupled changes in thermal environment and vegetation cover and their driving factors in residential areas within Beijing's Fifth Ring Road under urban renewal |
| 11:35-11:50 | <b>Makgalake Pabalelo Radingoana</b><br>Oral Presentation | Nature-Based Methods To Improve Domestic Greywater Quality Using Okra (Abelmoschus Esculentus) And Prickly Pear (Opuntia Ficus-Indica) Mucilage                 |
| 11:50-12:05 | <b>Gilbert Murenzi Katabarwa</b><br>Oral Presentation     | Deep Learning-Enabled Slum Detection from Satellite Observations Reveals Increasing Flood Exposure in East African Cities                                       |

|                    |                                                    |                                                                                                                                                       |
|--------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12:05-12:20        | <b>Meidad Kissinger</b><br>Oral Presentation       | Integrated Multiyear Assessment of Urban Environmental Footprint Mitigation Potential                                                                 |
| <b>12:30-14:00</b> | <b>Lunch Break</b>                                 |                                                                                                                                                       |
| 14:00-14:20        | <b>Huimin Liu</b><br>Invited Talk                  | Leveraging “City Examination & Evaluation” for Improved Heat Governance: Conceptual Framework and Empirical Research                                  |
| 14:20-14:35        | <b>Ranjan Datta</b><br>Oral Presentation           | Decolonizing Climate Crisis and Adaptions from Indigenous Community-led Cross-Cultural Conversation                                                   |
| 14:35-14:50        | <b>Julius Cesar Trajano</b><br>Oral Presentation   | Climate Risks to Peace and Security in Southeast Asia                                                                                                 |
| 14:50-15:05        | <b>Anh Hao Bui</b><br>Oral Presentation            | Nutritional Vulnerability and Infectious Disease Risk in a Changing Climate: A Socio-Ecological Systems Perspective                                   |
| 15:05-15:20        | <b>Abhishek Shrestha</b><br>Oral Presentation      | Use of rice landraces and rhizobium inoculated seed cope to salinity stress in seedling stage                                                         |
| <b>15:30-16:00</b> | <b>Tea Break</b>                                   |                                                                                                                                                       |
| 16:00-16:15        | <b>Ilsa Azhar</b><br>Oral Presentation             | Climate Change and Agricultural Economy of Pakistan: Challenges to Food Security and Decent Work under SDGs                                           |
| 16:15-16:30        | <b>Maureen Kudzai Maisiri</b><br>Oral Presentation | Indigenous Knowledge Systems as Drivers of Socio-Ecological Resilience: A Systematic Review of Multi-Hazard WEFH Nexus Adaptations.                   |
| 16:30-16:45        | <b>Enggar Arini</b><br>Oral Presentation           | Beyond Flood Control: A Systematic Review of Social Value Exclusion in River-based Climate Adaptation Infrastructure Across Global and Japan Contexts |
| <b>17:30-18:00</b> | <b>Award Ceremony &amp; Closing Remarks</b>        |                                                                                                                                                       |

#### S5. Sustainable Urban Landscapes and Low-Carbon Mobility

*Saturday, 22 August 2026*

*Room: Z208*

| Time               | Speaker                                           | Title                                                                                                                                                                                      |
|--------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Bin Jiang</b><br>Keynote Talk                  | AI for Architecture: From Style-Driven Generation to Structure-Guided Design                                                                                                               |
| 14:30-14:45        | <b>Qian Cao</b><br>Oral Presentation              | Autonomous Public Transit for Low-Carbon Smart Cities: A Co-Governance and Safety-Oriented Perspective                                                                                     |
| 14:45-15:00        | <b>Mark Jesson Ronquillo</b><br>Oral Presentation | Bagiantayo: Rethinking Barangay Basketball Courts as Social Cores in Dense Urban Communities                                                                                               |
| 15:00-15:15        | <b>Wenting Yan</b><br>Oral Presentation           | When Green Infrastructure Fails Along Older Adults’ Daily Walking Routes: Thermal Discontinuities and Mobility Inequality in Low-Carbon Active Travel                                      |
| 15:15-15:30        | <b>Ziyun Ye</b><br>Oral Presentation              | Study on Quality Improvement of Non-Motorized Travel Environment Based on Self- Collected Street View Data and Deep Learning: A Case Study Based on Changsha                               |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>             |                                                                                                                                                                                            |
| 16:15-16:45        | <b>Michael W. Mehaffy</b><br>Keynote Talk         | Assessing Sustainable Urbanism in 2026: Progress, Remaining Barriers, and Pathways Forward                                                                                                 |
| 16:45-17:05        | <b>Chunsheng Wu</b><br>Invited Talk               | Exploration of the evolution of human-nature relationships on the Qinghai-Tibet Plateau-based on the interactive analysis of ecosystem services and human activities over a 20-year period |
| 17:05-17:20        | <b>Kajal Chaudhary</b><br>Oral Presentation       | Machine Learning-Based Analysis of Range Anxiety in Electric Vehicle Drivers for Smart and Sustainable Mobility                                                                            |
| 17:20-17:35        | <b>Guanqi Wang</b><br>Oral Presentation           | Multi-scale Coupling Diagnosis of Walking-based Food and Physical Activity Environments in High-density Ageing Communities: Evidence from Tianjin, China                                   |
| 17:35-17:50        | <b>Xueqing Huang</b><br>Oral Presentation         | Green Mobile Edge Computing for Autonomous Electric Vehicles: A Sustainable Smart City Framework for Integrated Transportation, Computing, and Energy Systems                              |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                             |                                                                                                                                                                                            |

**S5. Sustainable Urban Landscapes and Low-Carbon Mobility***Sunday, 23 August 2026**Room: Z208*

| Time               | Speaker                                              | Title                                                                                                                                  |
|--------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 11:00-11:20        | <b>Chaosu Li</b><br>Invited Talk                     | Urban mobility resilience under heat extremes: Evidence from bike-sharing travel in New York                                           |
| 11:20-11:35        | <b>Erica Irinia Cruz Peraza</b><br>Oral Presentation | Integrating Scenario-Based Life Cycle Assessment into Sustainable Road Infrastructure Planning: A Case Study from El Salvador          |
| 11:35-11:50        | <b>Mesfin Achemo</b><br>Oral Presentation            | Informing Urban Environmental Management through the Perceived Multifunctionality of Urban Renewal Landscapes in Addis Ababa           |
| 11:50-12:05        | <b>Dawei Yang</b><br>Oral Presentation               | Spatial Optimization of Mobility in Historical Urban Landscapes: A Multi-Source Data Analysis of Xi'an Toward Low-Carbon Accessibility |
| 12:05-12:20        | <b>Qianxiang Yao</b><br>Oral Presentation            | Autonomous Flight and Spatial Intelligence through Living Structure                                                                    |
| <b>12:30-14:00</b> | <b>Lunch Break</b>                                   |                                                                                                                                        |

**S6. Circular Economy and Resource Efficiency***Saturday, 22 August 2026**Room: Z409*

| Time               | Speaker                                                  | Title                                                                                                                                                              |
|--------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Xiaowei Li</b><br>Keynote Talk                        | Enhanced humification and reduced odor emission of biogas residues from anaerobic digestion of municipal kitchen waste through improved aerobic composting process |
| 14:30-15:00        | <b>Katrina M. Knauer</b><br>Keynote Talk                 | Rethinking Plastic Waste: Innovations in Recycling Technologies and Recyclable-by-Design Materials                                                                 |
| 15:00-15:20        | <b>Jiang Li</b><br>Invited Talk                          | Carbon Transformation Driven by Functional Microorganisms During Straw Returning                                                                                   |
| 15:20-15:35        | <b>Lisa McNeill</b><br>Oral Presentation                 | Mend the Gap: Encouraging Circular Fashion Practices via Consumer Engagement with Community Clothing Repair Initiatives                                            |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>                    |                                                                                                                                                                    |
| 16:15-16:45        | <b>Giovanni De Feo</b><br>Keynote Talk                   | From Sustainability Narratives to Life-Cycle Evidence: Eco-Efficiency Assessment of Bottled Water Packaging Systems                                                |
| 16:45-17:05        | <b>Peng Zhao</b><br>Invited Talk                         | High-Value Utilization of Coal Gangue: Low-Temperature Preparation of Porous Ceramics with Superior Water Absorption/Retention for Dryland Agriculture             |
| 17:05-17:25        | <b>Andrea G. Capodaglio</b><br>Invited Talk              | Innovative Approach To Biological Sludge Anaerobic Digestion For Energy Recovery Maximization                                                                      |
| 17:25-17:40        | <b>Kristine Mae Tandet Bagapuro</b><br>Oral Presentation | From Waste to Wings: A Life Cycle Assessment of Non-Standard Coconut Oil (NSC-CNO) as a Feedstock for Sustainable Aviation Fuel (SAF) in the Philippines           |
| 17:40-17:55        | <b>Fredrik Lindblad</b><br>Oral Presentation             | Circular Construction Supply Chains: Integrating AI and Life Cycle Assessment for Resource Efficiency                                                              |
| 17:55-18:10        | <b>Ada Castellucci</b><br>Oral Presentation              | Social Life Cycle Assessment for the evaluation of bio-hazardous healthcare waste management systems: global and local perspectives                                |
| 18:10-18:25        | <b>Najoua Zhar</b><br>Oral Presentation                  | Circular Economy Transition in the Arab Region: From Policy Ambition to Implementation Gaps                                                                        |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                                    |                                                                                                                                                                    |

**S6. Circular Economy and Resource Efficiency***Sunday, 23 August 2026**Room: Z409*

| Time        | Speaker                           | Title                                                                                                             |
|-------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 11:00-11:30 | <b>Chunbao Xu</b><br>Keynote Talk | Hydrothermal Technologies for Resourceful Utilization of Biomass & Organic Solid Wastes                           |
| 11:30-11:50 | <b>Anna Mazzi</b><br>Invited Talk | Life Cycle Assessment of Photovoltaic End-of-Life: Mitigating Environmental Impacts through Innovative Recycling. |

|                    |                                                         |                                                                                                                                                   |
|--------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:50-12:05        | <b>Parinphorn Chunlapoon</b><br>Oral Presentation       | Developing Circular Economy Indicators for Non-Infectious Medical Plastics: A Hospital-Level Framework and Preliminary Application in Thailand    |
| 12:05-12:20        | <b>Adhitya Balakrishnan</b><br>Oral Presentation        | From Waste to Value: A Circular Maturity Framework for Agricultural Waste Systems in Dairy Farming                                                |
| 12:20-12:35        | <b>Shuxi Wang</b><br>Oral Presentation                  | Feasibility of Acid Solution Pretreatment for Enhancing Fragmentation Efficiency in Autoclaved Aerated Concrete Recycling                         |
| <b>12:30-14:00</b> | <b>Lunch Break</b>                                      |                                                                                                                                                   |
| 14:00-14:20        | <b>Marco Ragazzi</b><br>Invited Talk                    | Perspectives Of (Bio)Waste-To-Energy And Circular Economy                                                                                         |
| 14:20-14:35        | <b>Jiaqi Li</b><br>Oral Presentation                    | Ecological Quality Assessment and Mining Impact Quantification in Coal-Bearing Hill Areas of Northern Villages: A Case Study of the Changhe Basin |
| 14:35-14:50        | <b>Kate Honey</b><br>Oral Presentation                  | Circular Rhetoric, Linear Reality: Textile Waste and the Political Economy of Circularity in Australia                                            |
| 14:50-15:05        | <b>Shuyun Chng</b><br>Oral Presentation                 | Closing the Loop: A Systematic Approach to Closed-Loop Manufacturing for Industrial Deployment                                                    |
| 15:05-15:20        | <b>Apostolos Tsoumanis</b><br>Oral Presentation         | From Residues to Biostimulants: Life-Cycle-Oriented Development of Extract-Based Formulations from Mediterranean Biomass                          |
| 15:20-15:35        | <b>Jiahao Lai</b><br>Oral Presentation                  | Motif-Selective EPS Editing in Iron-Based Sludge Dewatering                                                                                       |
| <b>15:30-16:00</b> | <b>Tea Break</b>                                        |                                                                                                                                                   |
| 16:00-16:20        | <b>Alhayat Getu Temesgen</b><br>Oral Presentation       | Sustainable Valorization of Agricultural Waste Fibers for Ecofriendly Acoustic Applications within a Circular Economy Framework                   |
| 16:20-16:35        | <b>Amanda Alexandra Cañar Melo</b><br>Oral Presentation | Quantifying food waste in institutional food systems: a circular economy perspective on resource efficiency                                       |
| <b>17:30-18:00</b> | <b>Award Ceremony &amp; Closing Remarks</b>             |                                                                                                                                                   |

### ***S7. Renewable Energy and Smart Grids***

*Saturday, 22 August 2026  
Room: Z204*

| <b>Time</b>        | <b>Speaker</b>                                 | <b>Title</b>                                                                                                                                                              |
|--------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Jianheng Chen</b><br>Keynote Talk           | Harnessing Machine Learning and Radiative Cooling for Low-Energy Buildings                                                                                                |
| 14:30-15:00        | <b>Yimo Luo</b><br>Keynote Talk                | Comparative Study on Electrical Performance of Full-Cell and Half-Cell Bifacial PV Modules under Partial Shading Conditions                                               |
| 15:00-15:20        | <b>Quan Gong</b><br>Invited Talk               | Synergistic Integration of Radiative Cooling and Bifacial Photovoltaics for High-Density Rooftop Energy Generation and Cooling Load Reduction                             |
| 15:20-15:35        | <b>Shiyu Ba</b><br>Oral Presentation           | Assessing renewable energy capacity credibility for sustainable development: A spatiotemporal analysis of 31 Chinese provinces based on Thermal Power Capacity Equivalent |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>          |                                                                                                                                                                           |
| 16:15-16:45        | <b>Chuanshuai Dong</b><br>Keynote Talk         | Electrically Reconfigurable Phase Change Gly/Hydrogel for Solar-thermal Battery                                                                                           |
| 16:45-17:05        | <b>Yijie Zhang</b><br>Invited Talk             | Comparative study of different solar photovoltaics installation types concerning energy and environmental impacts in urban areas                                          |
| 17:05-17:25        | <b>Jihong Pu</b><br>Invited Talk               | Spectral regulation of energy-efficient windows with biomass dyes                                                                                                         |
| 17:25-17:40        | <b>Ji Zhu</b><br>Oral Presentation             | The Developmental State, Energy Security, and Carbon Lock-in: Structural Drivers and Constraints on Renewable Energy Deployment in Egypt                                  |
| 17:40-17:55        | <b>Tengfei Li</b><br>Oral Presentation         | Intelligent management optimization algorithm for net-zero energy building energy systems based on dynamic prediction                                                     |
| 17:55-18:10        | <b>Emmanuel Villaruel</b><br>Oral Presentation | Deoxygenation Effectivity during Co-processing of Coconut Oil and Kerosene with Subsequent Isomerization                                                                  |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                          |                                                                                                                                                                           |

**S7. Renewable Energy and Smart Grids***Sunday, 23 August 2026**Room: Z204*

| Time               | Speaker                                             | Title                                                                                                                                                                 |
|--------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:00-11:30        | <b>Jia Liu</b><br>Keynote Talk                      | Thermal-electrical-daylight performance study and optimization design of photovoltaic vacuum glazing for high-rise buildings                                          |
| 11:30-11:50        | <b>Shanshuo Xing</b><br>Invited Talk                | Efficient Operation Optimization for Heterogeneous All-parallel Chiller Plant under Real-Time Demand Response Assisted by Convex Surrogate Models                     |
| 11:50-12:05        | <b>Dimitar Kolev</b><br>Oral Presentation           | Investigation of a latent thermal storage for increasing the efficiency of a solar system                                                                             |
| 12:05-12:20        | <b>Linghe Ye</b><br>Oral Presentation               | An Ex-ante LCA-based Integrated Environmental Impact Analysis Method for Renewable Energy Grids Applicable to Long-Term Future Scenario Analysis                      |
| <b>12:30-14:00</b> | <b>Lunch Break</b>                                  |                                                                                                                                                                       |
| 14:00-14:30        | <b>Jinlong Ma</b><br>Keynote Talk                   | Strategic Imperatives for Sustainable Energy for AI Infrastructure                                                                                                    |
| 14:30-14:45        | <b>Justine Osei-Owusu</b><br>Oral Presentation      | Hybrid Simulation and Machine Learning Framework for Predictive Energy Modeling and Smart Grid Optimization in Commercial Buildings                                   |
| 14:45-15:00        | <b>Zongxian Wang</b><br>Oral Presentation           | Assessment of Photovoltaic Power Generation Potential and Development Strategies for Urban Buildings                                                                  |
| 15:00-15:15        | <b>Xiaochen Ma</b><br>Oral Presentation             | Energy, economic and environmental assessments of a polypropylene core indirect evaporative cooling system for energy recovery under hot and humid climate conditions |
| 15:15-15:30        | <b>Georgios Pardalis</b><br>Oral Presentation       | Much Ado About Smart Grids: Governance Frictions in Renewable Energy Integration                                                                                      |
| <b>15:30-16:00</b> | <b>Tea Break</b>                                    |                                                                                                                                                                       |
| 16:00-16:30        | <b>Tian You</b><br>Keynote Talk                     | Multi-energy complementary energy geo-structures                                                                                                                      |
| 16:30-16:45        | <b>Ahmed Mohammed Inuwa</b><br>Oral Presentation    | Enviro-Economic Assessment of Hydrogen-Rich Syngas Production via In-Situ CO <sub>2</sub> Capture in Torrefied MSW Co-Gasification                                    |
| 16:45-17:00        | <b>Victor Oluwafemi Victor</b><br>Oral Presentation | Techno-economic and life cycle assessment of hydrothermal gasification of potato peel waste for syngas and hydrogen production                                        |
| <b>17:30-18:00</b> | <b>Award Ceremony &amp; Closing Remarks</b>         |                                                                                                                                                                       |

**S8. Policy Frameworks for Equitable Green Transitions***Saturday, 22 August 2026**Room: Z206*

| Time               | Speaker                                        | Title                                                                                                                                        |
|--------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Zongshi Chen</b><br>Keynote Talk            | Research on the Impact of Media Attention on Corporate ESG Performance and Greenwashing Behavior                                             |
| 14:30-14:50        | <b>Katarzyna Turoń</b><br>Invited Talk         | CalmMobility: Why Governance Posture, Not Technology, Decides the Fate of Low-Carbon Mobility Transitions                                    |
| 14:50-15:05        | <b>Faith Macharia</b><br>Oral Presentation     | From Regional Policy to Urban Practice: Legal and Institutional Pathways for Circular Economy and Equitable Green Transitions in East Africa |
| 15:05-15:20        | <b>Zaneta Stasiskiene</b><br>Oral Presentation | Bridging Territorial Inequalities in Green Transition: A Multi-Level Governance Model for a Municipal Innovation Center in Lithuania         |
| 15:20-15:35        | <b>Hisham Malaika</b><br>Oral Presentation     | Why Many “Sustainable” New Cities Fail: Rethinking Viability Assessment in 21st-Century Greenfield Urban Development                         |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>          |                                                                                                                                              |
| 16:15-16:45        | <b>TSANG Po Keung Eric</b><br>Keynote Talk     | Green Schools Globally                                                                                                                       |
| 16:45-17:00        | <b>Lei Bei</b><br>Oral Presentation            | Formation, Evolution, and Flow of Carbon Emissions in Chinese Sectors: Production and Consumption Perspectives                               |

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|--------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17:00-17:15        | <b>Robby Soetanto</b><br>Oral Presentation              | Blue-Green Infrastructure (BGI) implementation roadmap: lessons learnt from policy development in Indonesia                                                              |
| 17:15-17:30        | <b>Olufunmilola Adetayo Obakin</b><br>Oral Presentation | Spatial Governance and Environmental Health Challenges in Traditional Markets: Evidence for Inclusive Urban Policy Reform in Nigeria                                     |
| 17:30-17:45        | <b>Dewi Permatasari</b><br>Oral Presentation            | Industrial Sustainability Transition Readiness: Practitioner-Based Insights on Organisational Capability and Governance Challenges in Emerging Economies                 |
| 17:45-18:00        | <b>Hosung Son</b><br>Oral Presentation                  | What drives automotive small and medium-sized enterprises to introduce environmental innovation? From the perspectives of government supports and climate change impacts |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                                   |                                                                                                                                                                          |

### ***S8. Policy Frameworks for Equitable Green Transitions***

*Sunday, 23 August 2026*

*Room: Z206*

| <b>Time</b>        | <b>Speaker</b>                                        | <b>Title</b>                                                                                                                     |
|--------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 11:00-11:30        | <b>Kok Sin Woon</b><br>Keynote Talk                   | Net-Zero Warming Municipal Solid Waste Systems to Meet Global Climate Targets                                                    |
| 11:30-11:45        | <b>Tenigbade Yewande Odu</b><br>Oral Presentation     | Land Banking, New Town Development, And The Sustainability Nexus In Rapidly Urbanizing Cities                                    |
| 11:45-12:00        | <b>Daren Zong Loong Tan</b><br>Oral Presentation      | Singapore Emission Factors Registry as a Foundation for Equitable Supply Chain Decarbonisation                                   |
| 12:00-12:15        | <b>Fanny Saruchera</b><br>Oral Presentation           | From Aid Chains to Supply Chains: AfCFTA and the Quest for an Equitable and Self-Sustaining African Production Ecosystem         |
| 12:15-12:30        | <b>Windhula Gammanpila</b><br>Oral Presentation       | Equitable Electricity Transitions in Sri Lanka: A Sustainability Index Incorporating Battery Energy Storage                      |
| <b>12:30-14:00</b> | <b>Lunch Break</b>                                    |                                                                                                                                  |
| 14:00-14:15        | <b>Mpinane Flory Senekane</b><br>Oral Presentation    | Thinking sustainable communities: Acting regulatory frameworks for Alexandra community in Gauteng South Africa.                  |
| 14:15-14:30        | <b>Rhett D Martin</b><br>Oral Presentation            | Aligning legal systems that address sustainability transition and retain democratic legitimacy                                   |
| 14:30-14:45        | <b>Krishna Giri</b><br>Oral Presentation              | The Role of Civil Society Organizations in Advancing Sustainable Development and Green Policy Transitions: A Case Study of Nepal |
| 14:45-15:00        | <b>Mohamed Hussien Abdelaziz</b><br>Oral Presentation | Governing AI-Driven Sustainability: From Carbon Metrics to Decision Systems                                                      |
| 15:00-15:15        | <b>Oliva Willibald Gonda</b><br>Oral Presentation     | Closing the Policy-to-Implementation Gap: A Systems Thinking Analysis of Solar PV for Productive Use in Rural Tanzania           |
| 15:15-15:30        | <b>Ernest Agyei Kwaku</b><br>Oral Presentation        | Institutional Coordination as a Determinant of Environmental Sustainability and Resilience of Ghana's Mining Supply Chain        |
| <b>15:30-16:00</b> | <b>Tea Break</b>                                      |                                                                                                                                  |
| 16:00-16:15        | <b>Xuezhi Liu</b><br>Oral Presentation                | An Evaluation of the Just Climate Transition in the Context of China's Digital Economy                                           |
| 16:15-16:30        | <b>Anhui Liu</b><br>Oral Presentation                 | Defining Administrative Liability in Third-Party Environmental Pollution Control                                                 |
| 16:30-16:45        | <b>Wladimir Henriques Motta</b><br>Oral Presentation  | Policy Coherence and Sufficiency: Mapping an Emerging Sustainability Research Agenda                                             |
| <b>17:30-18:00</b> | <b>Award Ceremony &amp; Closing Remarks</b>           |                                                                                                                                  |

***S9. Sustainable Economic Models and Green Finance***

***Saturday, 22 August 2026***

***Room: Z212***

| <b>Time</b>        | <b>Speaker</b>                               | <b>Title</b>                                                                                                                                                            |
|--------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Huaping Sun</b><br>Keynote Talk           | Cross-regional Spot Trading Empowers Enterprise's green innovation: Asymmetric Mechanism from the Perspective of Market Competition and Demand Scale                    |
| 14:30-14:45        | <b>Junyu Wang</b><br>Oral Presentation       | The Green Key: Green Finance and Carbon-Pollution Dual Lock-in                                                                                                          |
| 14:45-15:00        | <b>Justice Mundonde</b><br>Oral Presentation | Climate change and the Financing of Infrastructure Public-Private Partnerships in Emerging and Low-Income Economies                                                     |
| 15:00-15:15        | <b>Fangfang Zhou</b><br>Oral Presentation    | Green Mergers and Acquisitions and Green Revenue: Evidence from Technological and Market Mechanisms                                                                     |
| 15:15-15:30        | <b>Zhihui Chen</b><br>Oral Presentation      | The effect of Venture Philanthropy on Social businesses Scaling and financial sustainability                                                                            |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>        |                                                                                                                                                                         |
| 16:15-16:30        | <b>Xiaoyang Zhao</b><br>Oral Presentation    | A Hybrid Decision-Making Framework for ESG Evaluation in Offshore Wind Power: Methodological Construction and Empirical Validation                                      |
| 16:30-16:45        | <b>Robynne Jones</b><br>Oral Presentation    | Human Rights Risk and ESG Materiality in UK Extractive Firms                                                                                                            |
| 16:45-17:00        | <b>Zhi Wang</b><br>Oral Presentation         | Green Tax Reform and the Cost of Equity: Evidence from China's "Fee-to-Tax" Reform                                                                                      |
| 17:00-17:15        | <b>Aditya Naskar</b><br>Oral Presentation    | Addressing Fragmented Sustainability Data Standards through BI Driven Analytics                                                                                         |
| 17:15-17:30        | <b>Guiyuan Xue</b><br>Oral Presentation      | Decentralized Market Design for Joint Energy, Carbon, and Green Certificate Markets: Achieving System-wide RPS Compliance and Equilibrium-Social Optimality Equivalence |
| 17:30-17:45        | <b>Jude Igbo Ali</b><br>Oral Presentation    | Renewable Energy Transition, Maritime Connectivity and Manufacturing-Led Structural Transformation in Africa                                                            |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                        |                                                                                                                                                                         |

***S9. Sustainable Economic Models and Green Finance***

***Sunday, 23 August 2026***

***Room: Z212***

| <b>Time</b>        | <b>Speaker</b>                                                   | <b>Title</b>                                                                                                                                                            |
|--------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:00-11:30        | <b>Hui Hu</b><br>Keynote Talk                                    | A big data approach to measure Chinese green patents' quality over 1985-2023                                                                                            |
| 11:30-11:45        | <b>Xiaodong Lai</b><br>Oral Presentation                         | ESG Information Disclosure Impact on Emission Reductions in High Emission Enterprises: Evidence from a Multiple-Time-Point Difference-in-Differences Model Analysis     |
| 11:45-12:00        | <b>Zhiyi Zhao</b><br>Oral Presentation                           | Decentralized Market Design for Joint Energy, Carbon, and Green Certificate Markets: Achieving System-wide RPS Compliance and Equilibrium-Social Optimality Equivalence |
| 12:00-12:15        | <b>Abdelrahman Azzuni</b><br>Oral Presentation                   | Closing the Incentive Gap: Deposit-to-Price Ratios and the Economic Feasibility of Plastic Bottle Recycling in the UAE                                                  |
| 12:15-12:30        | <b>Huyen Thi Phuong Le</b><br>Oral Presentation                  | Circular Economy Disclosure, Financial Performance, and Corporate Value: Evidence from Vietnamese Listed Agricultural and Food-Processing Firms                         |
| <b>12:30-14:00</b> | <b>Lunch Break</b>                                               |                                                                                                                                                                         |
| 14:00-14:20        | <b>Artie Ng</b><br>Invited Talk                                  | Economics of AI and Sustainability in Industry 5.0: Intelligent Business Models                                                                                         |
| 14:20-14:35        | <b>Shantha Indrajith Hikkaduwa Liyanage</b><br>Oral Presentation | Strengthening Youth Entrepreneurship for Sustainable Development in Africa                                                                                              |
| 14:35-14:50        | <b>Debrima Saha</b><br>Oral Presentation                         | The Interoperability Penalty: Quantifying Cross-Border Capital Friction from Fragmented Green Finance Taxonomies in Asia                                                |
| <b>17:30-18:00</b> | <b>Award Ceremony &amp; Closing Remarks</b>                      |                                                                                                                                                                         |

***S10. Tourism, Culture, Heritage and Hospitality: Global Strategies for a Sustainable Future***

***Saturday, 22 August 2026***

***Room: Z410***

| Time               | Speaker                                        | Title                                                                                                                                                                                                                                                                                                             |
|--------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Industry Panel</b>                          | <b>Moderator:</b> Mark A. Bonn<br><b>Industry Panelists:</b><br><b>Rita Kung:</b> Mystic Winery, Owner and CEO<br><b>Isabel Li:</b> Ocean Park Hong Kong, Head of Education<br><b>Ada Ng:</b> Rosewood Hong Kong, Director of Impact & Sustainability<br><b>Jessica Naomi Fong:</b> Founder & CEO of Common Farms |
| 14:30-14:50        | <b>Rita Kung</b><br>Industry Panelist          | Sustainable practices of viticulture, winemaking and/or ESG aspects of our winery                                                                                                                                                                                                                                 |
| 14:50-15:10        | <b>Isabel Li</b><br>Industry Panelist          | TBD                                                                                                                                                                                                                                                                                                               |
| 15:10-15:30        | <b>Ada Ng</b><br>Industry Panelist             | Community Engagement and Empowerment – Equal Opportunities as a Driver of Long-Term Industry Resilience                                                                                                                                                                                                           |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>          |                                                                                                                                                                                                                                                                                                                   |
| 16:15-16:35        | <b>Jessica Naomi Fong</b><br>Industry Panelist | TBD                                                                                                                                                                                                                                                                                                               |
| 16:35-16:55        | <b>Roshis Krishna Shrestha</b><br>Invited Talk | Rethinking self-determination in Indigenous tourism                                                                                                                                                                                                                                                               |
| 16:55-17:05        | <b>Yifei Gao</b><br>Oral Presentation          | Unveiling the Causal Complexity of Cultural Experience in Technology-Enabled Tourism Performing Arts: A Configurational Approach Using fsQCA                                                                                                                                                                      |
| 17:05-17:20        | <b>Agus F. Abdillah</b><br>Oral Presentation   | Participatory Governance and Community Resilience in Digital Governance Transformation: Evidence from Lasem's Heritage Tourism Community                                                                                                                                                                          |
| 17:20-17:35        | <b>Qixin Wei</b><br>Oral Presentation          | The Front and Backstage of Coastal Sustainability: A Reconstruction of Qingdao's Urban Landscape Narrative Driven by Dramatic Theory and a Large Language Model                                                                                                                                                   |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                          |                                                                                                                                                                                                                                                                                                                   |

***S10. Tourism, Culture, Heritage and Hospitality: Global Strategies for a Sustainable Future***

***Sunday, 23 August 2026***

***Room: Z410***

| Time               | Speaker                                                  | Title                                                                                                                                          |
|--------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:00-11:30        | <b>Anthony Cheung</b><br>Keynote Talk                    | Bridging Heritage and Sustainability: Rethinking Governance for a Resilient Tourism Future                                                     |
| 11:30-11:50        | <b>Leonard A Jackson</b><br>Invited Talk                 | Who Benefits When Tourism Turns Green? Governance, Elite Capture, and SDG 10 in Sustainable Hospitality                                        |
| 11:50-12:05        | <b>Ruiwen Li</b><br>Oral Presentation                    | Digital Activation and Sustainable Dissemination of Shehuo Culture in Gansu: An Empirical Analysis Based on the DID Model                      |
| 12:05-12:20        | <b>Haotian Zheng</b><br>Oral Presentation                | The Mechanisms and Sustainable Development Pathways of the Digital Economy in Empowering Tourism Economic Resilience in the Yellow River Basin |
| <b>12:30-14:00</b> | <b>Lunch Break</b>                                       |                                                                                                                                                |
| 14:00-14:15        | <b>Alyssandrea Angela Espinueva</b><br>Oral Presentation | Cultural Imprints in Built Form: Uncovering La Trinidad, Benguet's Architectural Identity                                                      |
| 14:15-14:30        | <b>Roxane Bless Arsing</b><br>Oral Presentation          | Benguet Craftmanship: Ibaloi Architectural Identity through Building Methodologies in Kapangan and Kabayan                                     |
| 14:30-14:45        | <b>Rongjin Tian</b><br>Oral Presentation                 | Who Flies More, Pays More? Heterogeneous Compensatory Effects of Air Travel on Pro-Environmental Willingness to Pay                            |
| 14:45-15:00        | <b>Jeffrey Dela Cruz</b><br>Oral Presentation            | Context-sensitive Assessment of Tourism Carrying Capacity Fostering Sustainable Tourism: the case of the Rising Surfing Capital of the North   |

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|--------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15:00-15:15        | <b>Wilfrid Middleton</b><br>Oral Presentation | Community Knowledge & Maintenance: Lessons from Hong Kong's stonewall trees, India's living bridges and Taiwan's banyan temples for heritage governance |
| 15:15-15:30        | <b>Samira Akbarova</b><br>Oral Presentation   | Evaluation Of Slow Tourism As An Important Factor In Tourism Development In Azerbaijan Regions                                                          |
| <b>17:30-18:00</b> | <b>Award Ceremony &amp; Closing Remarks</b>   |                                                                                                                                                         |

***S11. Inclusive Strategies for Water Quality Improvement, Ecological Restoration and Water Resource Management***

*Saturday, 22 August 2026  
Room: Z411*

| Time               | Speaker                                                | Title                                                                                                                                                                                                             |
|--------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00-14:30        | <b>Gang Lu</b><br>Keynote Talk                         | Toxicity Prediction of Byproducts from Fenton/Fenton-like Oxidation of Nitrogen-Containing Heterocyclic Emerging Contaminants: Based on Key Structural Features and Machine Learning                              |
| 14:30-14:45        | <b>Max Bergman</b><br>Oral Presentation                | Local insights and national frameworks for restoring urban lakes in Bengaluru                                                                                                                                     |
| 14:45-15:00        | <b>Xupeng Jiang</b><br>Oral Presentation               | Simulation and Dynamic Assessment of Urban Water Metabolism Using an ABM–SD Coupled Model: A Case Study of Beijing                                                                                                |
| 15:00-15:15        | <b>Seemole Tleane</b><br>Oral Presentation             | Advancing the Applications of Nanotechnology in Groundwater Remediation                                                                                                                                           |
| 15:15-15:30        | <b>Luca Adami</b><br>Oral Presentation                 | Adaptive Biochar Pathways for Soil Health Living Labs: Lessons from Three Italian iCOSHELLs Demonstration Sites                                                                                                   |
| <b>15:30-16:15</b> | <b>Tea Break &amp; Poster Session</b>                  |                                                                                                                                                                                                                   |
| 16:15-16:30        | <b>Xuejing Leng</b><br>Oral Presentation               | Ecological restoration strategies towards environmental suitability and social equity on the Qinghai-Tibetan Plateau                                                                                              |
| 16:30-16:45        | <b>Vinita Sangwan</b><br>Oral Presentation             | Hybrid Wavelet-Fuzzy-Random Forest Model for Groundwater Sodium Adsorption Ratio (SAR) Prediction for Irrigation Water Quality Assessment                                                                         |
| 16:45-17:00        | <b>Zonghao Liu</b><br>Oral Presentation                | Structural and Electronic Features-Integrated Machine Learning Framework for High-Throughput Prediction of Organic Pollutant Reactivity                                                                           |
| 17:00-17:15        | <b>Shymaa Sabry Zaher</b><br>Oral Presentation         | Phytoplankton Composition and Dynamics Response on Climate Change in Wadi El- Rayan Lakes, Egypt                                                                                                                  |
| 17:15-17:30        | <b>Siyanda Nkwenkwe</b><br>Oral Presentation           | Seasonal and Spatial Variability of Spring Water Quality: Implications for Sustainable Water Security in Rural South Africa                                                                                       |
| 17:30-17:45        | <b>Matohlang Pascalina Pilane</b><br>Oral Presentation | Assessing the Social Pillar of Sustainable Water Use in South African Agriculture: A Socio-Hydrological Approach Integrating Water Footprints and a Partial Equilibrium Model                                     |
| 17:45-18:00        | <b>Letlhogonolo Mosadi</b><br>Oral Presentation        | Spatio-Temporal Assessment Of Surface Water Availability And Quality In The Bojanala Platinum District Of The North-West Province, South Africa: Integrating Field Based Monitoring And Remote Sensing Techniques |
| <b>19:00-21:00</b> | <b>Banquet Dinner</b>                                  |                                                                                                                                                                                                                   |

***S11. Inclusive Strategies for Water Quality Improvement, Ecological Restoration and Water Resource Management***

*Sunday, 23 August 2026  
Room: Z411*

| Time        | Speaker                                               | Title                                                                                                                                                                                                |
|-------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:00-11:15 | <b>Tsholofelo Cynthia Mojodo</b><br>Oral Presentation | Technical Modelling for Sedimentation Management and Storage Capacity Enhancement in the Tzaneen B81B Quaternary Catchment Area, South Africa: An Inclusive Governance and Socio-Ecological Approach |
| 11:15-11:30 | <b>George Ochieng</b><br>Oral Presentation            | Towards resilient water futures: An integrated multi-criteria framework for hybrid water supply systems in the Sekhukhune District Municipality, South Africa                                        |

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|--------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:30-11:45        | <b>Frans Hendrik De Beer</b><br>Oral Presentation         | Closing the Investigative Gap in Urban Water Resilience: A Multi-Criteria Screening Algorithm for Direct Potable Reuse in Vryburg, South Africa                                                                                   |
| 11:45-12:00        | <b>Tchopwe Damou Ezechiel Arnaud</b><br>Oral Presentation | Mapping ecosystem services of the Benoue River and Lagdo Lake as a tool for sustainable management of aquatic ecosystems in Cameroon                                                                                              |
| 12:00-12:15        | <b>Lamech Malekano Chimphero</b><br>Oral Presentation     | Determinants of Rural Water Supply Functionality in Malawi: An Environmental Justice Perspective on the 4C Model                                                                                                                  |
| 12:15-12:30        | <b>Sunil Kumar Sharma</b><br>Oral Presentation            | Interfacial Charge Engineering of rGO-Coupled g-C <sub>3</sub> N <sub>4</sub> /CoNi <sub>2</sub> S <sub>4</sub> Heterojunction Toward Highly Efficient Solar-Driven Photoreduction of Cr(VI) for Sustainable Wastewater Treatment |
| <b>12:30-14:00</b> | <b>Lunch Break</b>                                        |                                                                                                                                                                                                                                   |
| 14:00-14:15        | <b>Ghulam Zakir-Hassan</b><br>Oral Presentation           | Managed Aquifer Recharge in the Indus River Basin, Pakistan: Enhancing Groundwater Sustainability for Irrigated Agriculture                                                                                                       |
| 14:15-14:30        | <b>Lina Ma</b><br>Oral Presentation                       | Dynamic Causal Spatio-Temporal Graph Neural Networks for Water Quality Forecasting and Pollution Source Identification in River Basins                                                                                            |
| 14:30-14:45        | <b>Rajan Subedi</b><br>Oral Presentation                  | From Data to Action: Citizen Science Driving Transboundary River Governance in the Mahakali–Sharda Basin                                                                                                                          |
| 14:45-15:00        | <b>Adnan Abubakr</b><br>Oral Presentation                 | Anthropocene Imprints on Dal Lake: Houseboat-Driven Eutrophication and Water Quality Degradation                                                                                                                                  |
| <b>17:30-18:00</b> | <b>Award Ceremony &amp; Closing Remarks</b>               |                                                                                                                                                                                                                                   |

## Poster List:

| No.                                                                                                           | Presenter                               | Title                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><i>S1. Emerging Technologies and Integrated Solutions for Sustainable, Resilient Cities and Planet</i></b> |                                         |                                                                                                                                                                                        |
| 1                                                                                                             | Stephanie Grace Leksono                 | Optimising Visual Comfort, Energy Performance, and Embodied Carbon in Classrooms Through Table Material Selection                                                                      |
| 2                                                                                                             | Xiaoyu Chen                             | Geometry-Guided Block-wise 3D Gaussian Splatting for Large-Scale Urban Reconstruction                                                                                                  |
| 3                                                                                                             | Gang Wang                               | Climate-responsive energy-saving performance of PCM-integrated building envelopes under future climate scenarios                                                                       |
| 4                                                                                                             | Daniela Dzhonova-Atanasova              | Performance evaluation by energy and exergy analysis of a latent thermal storage                                                                                                       |
| 5                                                                                                             | Yan Han                                 | Assessing Land Availability Potential for Utility-Scale Wind and Solar Power in China: A Multi-Scenario Spatial Analysis                                                               |
| 6                                                                                                             | Sheeraz Ahmad                           | Decarbonizing Energy-Water Systems in Water-Stressed Arid Regions: Optimal Design Under Technology Cost Uncertainty                                                                    |
| 7                                                                                                             | Nontobeko Gloria Maphuhla               | Exploring the efficacy of incorporating the $\beta$ -cyclodextrin with urease enzyme activity to remediate soil pollution by heavy metals                                              |
| 8                                                                                                             | Oluwafemi Kehinde Akande                | Integrating Bioclimatic Indoor Environmental Design Strategies for Sustainable Neurological Patient Recovery in Tropical Healthcare Facilities                                         |
| 9                                                                                                             | Pamela Rungqu                           | Analgesic and anti-inflammatory activities of <i>Hypoxis hemerocallidea</i> Fisch. & C.A. Mey from Eastern Cape, South Africa                                                          |
| 10                                                                                                            | Yalong Li                               | Uncovering Regional Synchrony and City Linkage Networks in PM <sub>2.5</sub> &O <sub>3</sub> Compound POLLUTION across Northern Chinese Urban Agglomerations                           |
| 11                                                                                                            | Zoya Sharma                             | Effect of Sustainable Aviation Fuels on Contrail Formation Across Flight Routes: A Thermodynamic Analysis                                                                              |
| 12                                                                                                            | Laura Christiana Dobrescu               | Analysis of urban traffic vulnerabilities and resilience through implementing the Pedibus program and using in-monitoring systems                                                      |
| 13                                                                                                            | Ulrich Ndilira Rotam                    | SECE® Energy: Affordable and Environmentally Clean Power Generation Using Air, Sand, and Water for Climate-Change Solutions                                                            |
| 14                                                                                                            | Hong Ki Sung                            | A 3D GeoHash-Based Spatial Framework for Real-Time Urban Object Interaction and Predictive Analysis                                                                                    |
| 15                                                                                                            | Mohsen Mhadhbi                          | Synthesis of Ti <sub>3</sub> C <sub>2</sub> MXene from the Ti <sub>3</sub> AlC <sub>2</sub> MAX phase                                                                                  |
| 16                                                                                                            | Lencho Idris Ahmed                      | Modeling Urban Population Dynamics Using Machine Learning: A Case Study of Dire Dawa City Administration, Ethiopia                                                                     |
| <b><i>S2. Resilient Urban Energy Infrastructure</i></b>                                                       |                                         |                                                                                                                                                                                        |
| 17                                                                                                            | Clarence Jhay, Zeean Raphaelle Mandapat | Convertible Spaces: Adaptable Evacuation Centers as Flood-Resilient Strategy in Calasiao, Pangasinan                                                                                   |
| 18                                                                                                            | Jorge Pablo Aguilar Zavaleta            | Anticipatory architecture: transfer of avian ethological strategies towards resilient systems in the face of climate change                                                            |
| <b><i>S3. Sustainability Education and Innovative Approaches</i></b>                                          |                                         |                                                                                                                                                                                        |
| 19                                                                                                            | Takehiro Hatakeyama                     | Shaping Sustainable Community Futures in Tanegashima, Japan: From Dialogue to Action through a Boundary Object                                                                         |
| 20                                                                                                            | Chuhan Chen                             | Generative AI-augmented pedagogy and sustainable innovative behavior: The roles of critical artificial intelligence literacy, collaborative efficacy, and responsible learning climate |
| 21                                                                                                            | Bogdan Nikolov                          | Forming environmental behavior through training in sustainable waste management                                                                                                        |
| 22                                                                                                            | Bahaa' Makhoul                          | Blended Learning for Sustainable Academic Literacy Development in Arabic Middle Schools: Differential Effects Across Reading Ability Levels                                            |
| 23                                                                                                            | Hyerin Park                             | Decarbonizing the Human Node: A Protocol-to-Play (P2P) Framework for Cultivating Carbon Agency in the AI Era                                                                           |

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| 24                                                                     | Tenigbade Yewande Odu | Advancing Sustainability Competencies in Built Environment Education: Evidence from Learning Challenges in Real Estate Valuation Courses in Nigerian Universities                                                                          |
| 25                                                                     | Muhammad Waqas Halim  | The Intelligent Digital Education and Adaptive Sustainability (IDEAS) Framework: Integrating AI-Driven Urban Digital Twins and Digital Education Ecosystems for Climate Resilience, Net-Zero Transitions, and Future Workforce Development |
| <b><i>S4. Climate Change and Socio-Ecological Systems</i></b>          |                       |                                                                                                                                                                                                                                            |
| 26                                                                     | Roger Delamou         | Socioeconomic and ecological Values of Mangrove Ecosystems in the Kapatchez delta, Western Guinea                                                                                                                                          |
| 27                                                                     | Swathi Sethuram       | Multi-Dimensional Assessment of Urban Flood Vulnerability in Kochi: A Decadal Perspective Using GIS and Remote Sensing                                                                                                                     |
| 28                                                                     | Jianjun Sheng         | Ecosystem Service Valuation in Plateau Lake Basins: A Multidimensional Accounting Framework with Empirical Verification                                                                                                                    |
| <b><i>S5. Sustainable Urban Landscapes and Low-Carbon Mobility</i></b> |                       |                                                                                                                                                                                                                                            |
| 29                                                                     | Meili Feng            | Configuration of Urban Green Infrastructure Shapes Carbon Mitigation Efficiency: Evidence from China and the UK's Port Cities                                                                                                              |
| 30                                                                     | Zizhuo Zhang          | Research on Short-term Traffic Flow Prediction Based on Graph Latent Similarity                                                                                                                                                            |
| 31                                                                     | Vivek Verma           | Biomass production and vegetation assessment on Urban Marginal Lands in Northern Indian cities                                                                                                                                             |
| 32                                                                     | Zhangyi Zhou          | Coupling Coordination Evaluation and Spatial Differentiation of Green Infrastructure and Low-Carbon Travel                                                                                                                                 |
| 33                                                                     | Quanling Tan          | Spatial Analysis of Green Infrastructure and Public Transit for Low-Carbon Urban Development: A Case Study of Chongqing, China                                                                                                             |
| <b><i>S6. Circular Economy and Resource Efficiency</i></b>             |                       |                                                                                                                                                                                                                                            |
| 34                                                                     | Tomasz Majka          | Polymer-asphalts - the future for plastic waste management                                                                                                                                                                                 |
| 35                                                                     | Natália Čeryová       | Upcycling Grape Pomace into Functional Biscuits: Enhancing Nutritional Quality within a Circular Food System                                                                                                                               |
| 36                                                                     | Judita Lidikova       | Fatty Acid Profile of Grape Pomace: Implications for Nutritional Quality and Valorization in Food Systems                                                                                                                                  |
| 37                                                                     | Slaveya Petrova       | Relationship between behavioral trends, household practices, and policies in Bulgaria regarding sustainable waste management                                                                                                               |
| 38                                                                     | Saedaseul Moon        | Optimizing End-of-Life Battery Diagnosis and Sales Strategies via Deep Reinforcement Learning: A Circular Economy Approach                                                                                                                 |
| 39                                                                     | Qingkai Chen          | Carbon Footprint and Resource Efficiency Optimization of Municipal Solid Waste: Low-Carbon Circular Governance for Coastal Tourist Cities                                                                                                  |
| 40                                                                     | Edward Ren Kai Neo    | Towards More Effective Closed-Loop Production of Polymer Blends: AI-enabled Profiling with Hyperspectral Imaging                                                                                                                           |
| 41                                                                     | Shingo Matsui         | Comparative life cycle assessment of open-field farming and vertical farming for the lettuce production in Japan                                                                                                                           |
| 42                                                                     | Fei Han               | Regenerable NH <sub>4</sub> Cl system enabling complete recovery of metals from spent NCM cathodes                                                                                                                                         |
| 43                                                                     | Zhiwei Jin            | Waste Biomass Valorization for Cadmium Remediation and Sustainable Water Treatment                                                                                                                                                         |
| 44                                                                     | Oldrich Sucharda      | Sustainable Concrete in the Circular Economy                                                                                                                                                                                               |
| 45                                                                     | Dinh-Tien Luong       | Circular Economy as Climate Adaptation in the Semiconductor Supply Chain: Pathways for a Resilient Future                                                                                                                                  |
| 46                                                                     | Jazbia Shirin         | Size-dependent impacts of polystyrene microplastics and heavy metals on soil microbiomes and spring onion health                                                                                                                           |
| 47                                                                     | Yang Ming Yang        | A Collaborative Carbon Reduction Method for Cement Enterprises Considering Locational Marginal Carbon Emission Factors and Inventory Regulation                                                                                            |

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| 48                                                                                                                          | Farah Idris Sangor             | Response Surface Optimization of PHBV Production by <i>Haloferax mediterranei</i> Using an SCFA Feed Derived from Ozonated Agro-Industrial Waste                                                           |
| <b><i>S7. Renewable Energy and Smart Grids</i></b>                                                                          |                                |                                                                                                                                                                                                            |
| 49                                                                                                                          | Leijia Liu                     | WIAE-Transformer for Multivariate Probabilistic Forecasting of Green Electricity Demand                                                                                                                    |
| 50                                                                                                                          | Mohammad Fahim Afsan Chowdhury | Financing Renewable Energy in Bangladesh: Green Finance, FDI, and Multilateral Funding                                                                                                                     |
| 51                                                                                                                          | Munajat Maqsoodxonova          | Technical and Economic Feasibility of Small-Scale Biogas Systems for Rural Households                                                                                                                      |
| 52                                                                                                                          | Ganesha K KS                   | Optimization of Solar Energy Systems: A Combinatorial Approach to Maximizing Energy Yield                                                                                                                  |
| <b><i>S8. Policy Frameworks for Equitable Green Transitions</i></b>                                                         |                                |                                                                                                                                                                                                            |
| 53                                                                                                                          | Banghui Li                     | Governing the Blue Transition: Identifying Policy-Relevant Environmental Indicators for Equitable Offshore Wind Development                                                                                |
| 54                                                                                                                          | Shanglin Du                    | The oversight paradox in construction industry: How AI in public procurement oversight Weakens corporate social responsibility's contribution to resource efficient eco-Innovation                         |
| 55                                                                                                                          | Katarzyna Turoń, Andrzej Kubik | Analyzing the Longevity of Urban Mobility Innovations for Sustainable Development                                                                                                                          |
| <b><i>S9. Sustainable Economic Models and Green Finance</i></b>                                                             |                                |                                                                                                                                                                                                            |
| 56                                                                                                                          | Ana Lyvia Tabosa da Silva      | Life Cycle Costing Methodologies for Aluminium Bridges: A Comparative Assessment                                                                                                                           |
| 57                                                                                                                          | Romain Diaz                    | Climate Tech was just the beginning                                                                                                                                                                        |
| <b><i>S10. Tourism, Culture, Heritage and Hospitality: Global Strategies for a Sustainable Future</i></b>                   |                                |                                                                                                                                                                                                            |
| 58                                                                                                                          | Shanglin Du                    | Digital Activation for Sustainable Revitalization in China's ShuDao Heritage Corridor: Collaboration, Co-Creation, and Governance                                                                          |
| 59                                                                                                                          | Jieyuan Zheng                  | Examining Geographic and Environmental Factors Behind Rural Tourism Development in Shiquan County, China                                                                                                   |
| 60                                                                                                                          | Allen Walter Centeno           | Reviving the Wetlands: Community Reception of the Ecolope as a Design Process for a Wetland Complex in Candaba, Pampanga                                                                                   |
| <b><i>S11. Inclusive Strategies for Water Quality Improvement, Ecological Restoration and Water Resource Management</i></b> |                                |                                                                                                                                                                                                            |
| 61                                                                                                                          | Qianqian Tang                  | Electron transfer mediated activation of periodate by contaminants to generate $IO_2$ by charge-confined single-atom catalyst                                                                              |
| 62                                                                                                                          | Shuiping Yu                    | Enhanced Refractory Organics Removal from Chemical Industrial Park Wastewater by an Ozone Catalytic Oxidation–Biological Aerated Filter Coupled Process: Performance, Mechanism and Engineering Validation |
| 63                                                                                                                          | Jiachuang Shao                 | Electrospun PEI/PVA nanofiber adsorbents for selective Cr(VI) enrichment and chromium salt recovery from electroplating wastewater                                                                         |
| 64                                                                                                                          | Chengshin Jang                 | Integrating reverse quantitative microbial risk assessment with disability-adjusted life years for risk-based river environmental and recreational management                                              |
| 65                                                                                                                          | Edwin M. Pino-Vargas           | The Use of Mining Tailings Water for Agriculture: A Perspective from the Approach of Water Quality and Proposals for Sustainable Water Management in Pampa Sitana, Tacna, Peru                             |
| 66                                                                                                                          | Stavros G. Pouloupoulos        | Sustainable Valorization of Apricot Stones into Hydrochar: Mercury Removal from Wastewater via Green Hydrothermal Carbonization                                                                            |
| 67                                                                                                                          | Catalina Iticescu              | Support for the Danube: A machine learning approach for sustainable water monitoring                                                                                                                       |
| 68                                                                                                                          | Stefan Petrea                  | Support for integrated monitoring of the Danube: An analytical framework based on auto-ML for water and sediment quality monitoring in the Sulina branch                                                   |

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| 69 | Yin Mengying  | Accelerating N <sub>2</sub> H <sub>4</sub> (ads) formation by frustrated Lewis pairs in an oxyhydroxide for electrocatalytic ammonia oxidation into N <sub>2</sub> |
| 70 | Quanzhi Zhang | Interfacial Electronic Regulation of Nano-confined Co Catalyst for Singlet Oxygen Dominated Water Purification                                                     |
| 71 | Sheng Lu      | Defect-Engineered Sulfur-Based Photothermal Catalysts for Sustainable Energy Conversion and Water Remediation                                                      |