

## Call for Papers

### The 2<sup>nd</sup> International Conference on Carbon Neutrality (ICCN-2025)

The 2<sup>nd</sup> International Conference on Carbon Neutrality (ICCN-2025, <https://iccn.sjtu.edu.cn/>) will take place in **Shanghai, China, from September 5-7, 2025**. Sponsored by the Asian Union of Thermal Science and Engineering (AUTSE), ICCN-2025 will be hosted by Shanghai Jiao Tong University and the Chinese Society of Engineering Thermophysics, organized by the journal *Carbon Neutrality*, and co-organized by the University of Edinburgh along with several other world-class universities. This biennial event builds on the success of the inaugural conference in 2023, which attracted over 200 attendees from around the world.

Achieving carbon neutrality requires a profound and systematic transformation across technology, economy and society, reshaping traditional modes of production, living and consumption. As a multi-disciplinary and comprehensive research area, carbon neutrality intersects with critical fields such as energy, environment, finance, and management.

The primary goal of ICCN-2025 is to unite leading scientists, engineers, industry experts, and practitioners to exchange insights, share breakthroughs, and foster collaborations that will accelerate the global progress toward carbon neutrality.

We warmly invite innovative researchers, forward-thinking engineers, practitioners, and students from all over the world to participate in ICCN-2025. Join us in shaping the future of carbon neutrality.

#### Conference Themes

ICCN-2025 invites submissions of two-page extended abstracts on the following themes, including but not limited to:

##### (1) Hydrogen and renewable energy technologies

- Materials and techniques for hydrogen generation, storage, transportation and utilization
- Techniques for the synthesis of low-carbon fuels
- Techniques for renewable energy conversion such as photovoltaics, wind power, thermoelectrics, etc.

##### (2) Catalysis and environmental science

- High-quality resourceful conversion of CO<sub>2</sub>
- Low carbon detoxification system
- Synergizing the reduction of pollution and carbon emissions
- Waste carbon resource utilization

##### (3) Advanced energy storage

- Electrochemical energy storage

- Electrical energy storage
- Thermal energy storage
- Compressed air energy storage and flywheel energy storage
- Advanced materials and devices for energy storage
- Simulation, management and control of energy storage systems

#### (4) Negative emission technologies

- Direct air capture
- Nature-based solutions for carbon neutrality
- Decarbonization techniques for fossil fuels
- Innovative clean energy technologies
- CCUS applications in the energy sector
- Carbon sink and carbon sequestration of marine and terrestrial ecosystem
- Carbon footprint and emission monitoring

#### (5) Carbon finance, management and policy

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

#### (6) Smart energy, low carbon technologies and applications

- Multi-energy complementary distributed energy system
- Smart grid
- Digital twin technology for energy system
- Energy big data analysis
- Green building and low carbon city
- Advanced energy-saving solutions
- Industrial decarbonization

#### Procedure for Submission

1. Please use the two-page extended abstract template when preparing your submission. (The template is available for download on the ICCN-2025 website.)
2. Submit your two-page extended abstract for ICCN-2025 online via the submission center at <https://iccn.sjtu.edu.cn/Passport/Login>.

#### Important Dates (tentative)

~~31 March 2025~~ **30 April 2025: Extended Abstract Submission Deadline**

~~31 May 2025~~ **30 June 2025: Notification of Extended Abstract Acceptance**

**30 June 2025: Early-Bird Registration Deadline**

**31 July 2025: Full-Length Paper Submission Deadline** (optional. Selected high-quality papers will be invited for submission to the journal *Carbon Neutrality*)

#### Publication in Journal

Selected high-quality full-length papers from ICCN-2025 will be further reviewed and published in *Carbon Neutrality* (<https://www.springer.com/journal/43979>).

## Awards

The following awards will be presented during ICCN-2025.

- Excellent Young Scholar Award for Carbon Neutrality
- Best Paper Award
- Outstanding Youth Editorial Board Member Award of *Carbon Neutrality*
- 2022-2023 Highly Cited Paper Award of *Carbon Neutrality*

## Registration Fee

At least one author of an accepted abstract must register for the conference. Authors are required to complete registration and payment by the day of the conference. The registration portal is currently not open. Please stay tuned for updates.

Registration type	Advanced (On or Before 30 June 2025)	Standard (After 30 June 2025)
Regular	USD 500 (RMB 3500)	USD 550 (RMB 3850)
Student	USD 300 (RMB 2100)	USD 350 (RMB 2450)

## International Scientific Committee

### ISC Chairs:

Hongguang Jin, Institute of Engineering Thermophysics, Chinese Academy of Sciences,  
China

Zhen Huang, Shanghai Jiao Tong University, China

### Conference Chairs

Changying Zhao, Shanghai Jiao Tong University, China

Margaret Graham, University of Edinburgh, UK

## Venue

Shanghai Jiao Tong University, 800 Dongchuan Road, Minhang District, Shanghai, China

## Call for Exhibition/Sponsorship

The Local Organizing Committee of ICCN-2025 welcomes sponsors and exhibitors from companies and institutions. ICCN-2025 provides an excellent platform for showcasing your products and services. Interested exhibitors and sponsors can contact us at [iccn@sjtu.edu.cn](mailto:iccn@sjtu.edu.cn) for details.

## Contact us

Email: [iccn@sjtu.edu.cn](mailto:iccn@sjtu.edu.cn) Website: <https://iccn.sjtu.edu.cn/>