

Call for Papers

The 2nd International Conference on Carbon Neutrality (ICCN-2025)

第二届碳中和国际学术会议征稿通知

第二届碳中和国际学术会议（ICCN-2025, <https://iccn.sjtu.edu.cn/>）将于 2025 年 9 月 5-7 日在上海举办。本次大会由上海交通大学和中国工程热物理学会主办，*Carbon Neutrality* 期刊承办，爱丁堡大学等世界一流高校协办，并获得亚洲热科学与工程联合会（AUTSE）支持。碳中和国际学术会议每两年举办一次，第一届碳中和国际学术会议于 2023 年在上海成功举办，大会收到了来自中国、英国、美国、新加坡、日本等十余个国家的 160 余份投稿，来自世界各地从事低碳相关领域研究的 200 余位专家学者参加了会议。

The 2nd 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.

实现碳中和是一场涉及科学技术、经济和社会的系统性变革，将从根本上转变传统的生产、生活和消费模式。碳中和涉及能源、环境、金融、管理等多学科，属于典型的交叉型与综合型研究领域。以实现碳中和为核心，会议主题涵盖低碳能源、生态系统碳汇与环境治理、碳金融、碳管理与碳政策等方向。

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.

会议旨在汇集来自不同研究领域的顶尖科学家、工程师和行业专家，交流洞见，凝聚共识，共同加速全球碳中和进程的推进。

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.

我们诚挚地邀请世界各地的科学家、工程师、研究人员和学生参加此次盛会，一起探讨如何应对全球变暖，并为实现净零碳排放寻找可行性解决方案。

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.

会议主题 Conference Themes

会议主题包括但不限于 ICCN-2025 invites submissions of two-page extended abstracts on the following themes, including but not limited to

(1) 氢能与可再生能源技术 Hydrogen and renewable energy technologies

- 氢能制备、存储、运输及利用关键材料与技术 Materials and techniques for hydrogen generation, storage, transportation and utilization
- 低碳燃料合成技术 Techniques for the synthesis of low-carbon fuels
- 光伏、风能、热电等可再生能源转换技术 Techniques for renewable energy conversion such as photovoltaics, wind power, thermoelectrics, etc.

(2) 催化与环境科学 Catalysis and environmental science

- 二氧化碳的高质量资源化转化 High-quality resourceful conversion of CO₂
- 低碳脱毒系统 Low carbon detoxification system
- 协同降污和降碳 Synergizing the reduction of pollution and carbon emissions
- 废弃碳资源利用 Waste carbon resource utilization

(3) 先进储能 Advanced energy storage

- 电化学储能 Electrochemical energy storage
- 电能存储 Electrical energy storage
- 热储能 Thermal energy storage
- 压缩空气储能和飞轮储能 Compressed air energy storage and flywheel energy storage
- 先进储能材料与器件 Advanced materials and devices for energy storage
- 储能系统模拟、管理和控制 Simulation, management and control of energy storage systems

(4) 负排放技术 Negative emission technologies

- 直接空气捕获 Direct air capture
- 基于自然的碳中和解决方案 Nature-based solutions for carbon neutrality
- 化石燃料降碳技术 Decarbonization techniques for fossil fuels
- 创新清洁能源技术 Innovative clean energy technologies
- CCUS 在能源领域的应用 CCUS applications in the energy sector
- 海洋和陆地生态系统碳汇和碳封存 Carbon sink and carbon sequestration of marine and terrestrial ecosystem
- 碳足迹与碳排放监测 Carbon footprint and emission monitoring

(5) 碳金融、碳管理与气候政策 Carbon finance, management and policy

- 碳定价理论与市场实践 Carbon pricing theory and market practice
- 气候投融资 Climate investment and finance
- 低碳政策与管理 Low carbon policy and governance
- 碳中和经济转型 Transition to carbon neutral economy

(6) 智慧能源和低碳技术与应用 Smart energy, low carbon technologies and applications

- 多能互补分布式能源系统 Multi-energy complementary distributed energy system
- 智能电网 Smart grid

- 能源系统的数字孪生技术 Digital twin technology for energy system
- 能源大数据分析 Energy big data analysis
- 绿色建筑与低碳城市 Green building and low carbon city
- 先进节能方案 Advanced energy-saving solutions
- 工业降碳 Industrial decarbonization

投稿流程 Procedure for Submission

1. 请从 ICCN-2025 网站下载两页论文摘要模板，并参照模板中的说明撰写论文摘要。Please use the two-page extended abstract template when preparing your submission. (The template is available for download on the ICCN-2025 website.)
2. 请在 ICCN-2025 网站投稿中心提交您的两页论文摘要：
<https://iccn.sjtu.edu.cn/Passport/Login>
 Submit your two-page extended abstract for ICCN-2025 online via the submission center at <https://iccn.sjtu.edu.cn/Passport/Login>.

重要日期（待定） Important Dates (tentative)

2025 年 3 月 31 日：两页摘要投稿截止日期

2025 年 5 月 31 日：两页摘要接收通知发布截止日期

2025 年 6 月 30 日：早鸟注册截止日期

2025 年 7 月 31 日：全文提交截止日期（非必须，高质量稿件将被国际学术期刊 *Carbon Neutrality* 邀请投稿）

31 March 2025: Extended Abstract Submission Deadline

31 May 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*)

期刊发表 Publication in Journal

高质量全文稿件将被国际学术期刊 *Carbon Neutrality* 邀请投稿，经过同行评审后

将有机会发表。

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

大会奖项 Awards

本次大会设立如下奖项。The following awards will be presented during ICCN-2025.

- 碳中和菁英奖 Excellent Young Scholar Award for Carbon Neutrality
- 最佳报告/海报奖 Best Paper Award
- 《碳中和》期刊优秀青年编委奖 Outstanding Youth Editorial Board Member Award of *Carbon Neutrality*
- 2022-2023 年度《碳中和》期刊高被引论文奖 2022-2023 Highly Cited Paper Award of *Carbon Neutrality*

注册费 Registration Fee

被接收的论文摘要的作者中至少有一位必须注册。作者应在会议前完成会议注册和缴费。参会人员缴纳会议注册费标准见下表。目前注册通道尚未开放，请随时关注更新信息。

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)

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会议地点 Venue

上海市闵行区东川路 800 号上海交通大学

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

展览与赞助征集 Call for Exhibition/Sponsorship

ICCN-2025 大会组委会欢迎感兴趣的公司和机构赞助和参展, 可发电子邮件至 iccn@sjtu.edu.cn 了解更多详情。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 for details.

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