



2026

2026 2nd International Conference on Green Sustainable Development —Green Materials and Future Energy

29 April – 3 May 2026 | Bangkok, Thailand

Post Conference Report



Thank You Letter

Dear Colleagues,

On behalf of the Green Sustainable Conference Organizing Committee, I would like to extend our most sincere gratitude to all of you for attending the 2026 2nd International Conference on Green Sustainable Development Conference. From April 30 to May 1, 2026, you gathered in Bangkok, Thailand, creating a strong academic atmosphere for this grand event and making it a remarkable and unforgettable academic conference.

The conference was greatly enriched by the remarkable quality of the research presented and the insightful discussions that took place both in the lecture halls and during the networking sessions. It was a genuine pleasure to witness such a vibrant exchange of ideas among the world's leading minds in the field. The collective knowledge and enthusiasm demonstrated have undoubtedly advanced our shared mission.

We do hope that you found the conference both professionally rewarding and personally enjoyable.

The successful conclusion of this conference fills us with great anticipation for the future. We sincerely look forward to reuniting with all of you at future advanced materials conferences. Building on the achievements of this event, we will forge ahead to scale new heights and deliver even greater successes.

Until then, we extend our very best wishes for your continued work and research.

Yours faithfully,

The Organizing Committee
The Green Sustainable Conference



2026

2nd International Conference on Green Sustainable Development



Event Overview

From April 30 to May 1, the 2nd International Conference on Green Sustainable Development was successfully held in Bangkok, Thailand.

Co-organized by Mahidol University, Institute of Chemistry, Henan Academy of Sciences, and the Journal of Bioresources and Bioproducts, the conference was strongly supported by the Key Laboratory of Biobased Polymer Materials of Zhejiang Province, Braskem (Brazil), the Global Centre for Green Fuels (GCGF), SCG Chemicals, Thai Bioplastics Industry Association (TBIA), and Fiberban™ Holdings Private Limited. Scholars and guests attended the event from Thailand, Indonesia, France, Canada, Singapore, South Africa, Australia, Malaysia, the United States, Nepal and other countries.

Focusing on the theme of green materials and future energy, the conference enabled enterprises to efficiently connect with appropriate technologies and materials, and accelerated the transformation of laboratory research findings into marketable products.

Meanwhile, as one of the main organizers, Mahidol University arranged a campus and laboratory tour for participants. The on-site visit constituted an important extension of academic communication, offering delegates a close insight into the university's world-class research platforms, advanced experimental facilities, strong academic atmosphere and cutting-edge research capabilities in the field of biobased materials. In-depth face-to-face discussions were held between participants and university leaders as well as faculty members, which greatly enhanced academic mutual trust and industrial cognition. It also laid a solid foundation for future transnational academic cooperation, research project collaboration and long-term exchange mechanisms.



2026

2nd International Conference on Green Sustainable Development

Conference Highlights

2026 2nd International Conference on Green Sustainable Development brings together global interdisciplinary forces to share insights and deepen collaboration. Focusing on green materials (low-carbon nanomaterials, bio-based materials, novel energy storage materials, etc.) and future energy (biomass energy, hydrogen energy, long-duration energy storage, carbon capture, utilization, and storage, etc.), the conference promotes technology sharing, resource complementarity, and project implementation, helping to build a green and low-carbon cooperative ecosystem in Southeast Asia and beyond.

A platform for academic exchange, tech transfer, and international collaboration—centered on sustainable development and integrating green materials with future energy.

Conference & international cooperation

120+

Delegates

30

Speakers

10+

Countries and Regions

40

International University Teams

40

Academicians

40

International Renowned Experts

2

Sessions

5+

Cooperation and connection



2026

2nd International Conference on Green Sustainable Development

Organization

Hosting

Mahidol University
Institute of Chemistry, Henan Academy of Sciences
Journal of Bioresources and Bioproducts

Supporting Organization

Key Laboratory of Bio-based Polymer Materials of Zhejiang Province

Organizing

Ningbo Flink Industrial Chain Information Technology Co., Ltd.

Supporting Media



10+ Countries Have Participated

China



Thailand



France



Malaysia



Singapore



South Africa



Australia



United States



Canada



Indonesia



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Opening Ceremony



Opening Address

Jitladda Sakdapipanich
Professor of Mahidol
University

Opening Address

Jin Zhu
Professor of Ningbo Institute
of Materials Technology and
Engineering, CAS





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2nd International Conference on Green Sustainable Development

Conference Venue



Plenary Session



Dehua Liu

Director of Applied Chemistry Research Institute, Tsinghua University,
Fellow of the Canadian Academy of Engineering

Presentation Title: Biorefinery for carbon neutrality

Abstract: Biorefining, which uses renewable biomass to replace fossil carbon in the production of energy, materials and various chemicals, can achieve a closed-loop circulation of CO₂ between the atmosphere and human society, that is, carbon neutrality. The development of degradable bio-based polymers can also help reduce plastic pollution.



Huining Xiao

Professor of the University of New Brunswick, Canada, and Nanjing Forestry University, Fellow of the Canadian Academy of Engineering

Presentation Title: Rendering cellulosic nonwovens and packaging multifunctional

Abstract: Multifunctional dressings have attracted significant attention due to the growing demand on wearable electronics and portable device. This presentation focuses on the fabrication of a range of antibacterial/antiviral cellulosic nonwoven (CNW) textiles as personal protective equipment via unique surface modification strategies. In addition, the highly conductive MXene was incorporated into CNW in the presence of functional polymers.



Jitladda Sakdapipanich

Professor of Mahidol University

Presentation Title: Reinventing Natural Rubber Latex as a Green Material Platform for Sustainable Development and a Low-Carbon Future

Abstract: Natural rubber (NR) latex, derived from *Hevea brasiliensis*, is uniquely positioned as a strategic green material capable of contributing to global sustainable development and the transition toward a low-carbon future. Beyond its traditional role in commodity applications, NR latex offers an opportunity to be re-envisioned as a high-value, bio-based material platform that integrates renewable sourcing, functional performance, and environmental responsibility.

Plenary Session



Jin Zhu

Professor of Ningbo Institute of Materials Technology and Engineering, CAS

Presentation Title: Conversion and Utilization of Biomass

Abstract: Bio-based polymers are a class of polymers which were derived from renewable resources. Great attention has been paid from both academic and industrial society since they are sustainable and renewable materials. Some progress was made at Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences (NIMTE). This talk will review our recent research on conversion and utilization of biomass. It includes conversion of cellulose into sugar and two dimensional nanosheet, and preparation of Herb Plastic Composites(HPC).



Thomas Jay Webster

Professor of Hebei University of Technology

Presentation Title: Nanomaterials in Humans: Improved Energy for Implantable Sensors

Abstract: Nanotechnology has certainly revolutionized numerous fields over the past several decades. This presentation will provide information concerning devices that use nanomaterials to generate energy to power implant sensors. Specifically, carbon nanotubes have been used to transform today's medical devices into sensors that can sense and identify cell presence on implants (such as bacteria, inflammatory cells, and/or cells that produce tissue) as well as generate power to communicate such information to a hand held device.



Roger Marchioni

Braskem Global Business Director for Biopolymers

Presentation Title: Biobased Plastics as Enablers of Fossil Carbon Reduction

Abstract: Biobased plastics can act as important decarbonization levers by reducing reliance on fossil carbon. During sugarcane cultivation, atmospheric CO₂ is captured through photosynthesis, lowering life-cycle greenhouse gas emissions and improving the carbon footprint across the plastic value chain. While recyclability remains non-negotiable, circularity must extend end-of-life to include feedstock origin and carbon intensity. This session will provide an overview of the environmental benefits of biobased plastics and the key requirements for sustainable feedstock sourcing.

Conference Venue



Xiaoxia Zhu

Professor of Beijing Normal University

Presentation Title: Molecular hydrogels and CO₂ fertilizers

Abstract: Natural compounds such as bile acid and fatty acid salts can form molecular hydrogels and emulsions under suitable conditions. The hydrogels possess well-dispersed and randomly-arranged 3D fibrous networks. CO₂ can be used as a gelator in the formation of molecular hydrogels that can undergo reversible sol-gel transitions. The molecular hydrogels may be potentially useful in tissue engineering, cell culture, mechano-optical sensing and in the storage of CO₂. The emulsions containing CO₂ may be sprayed onto plant leaves to promote photosynthesis in crops by releasing CO₂, showing promise in environmental protection, CO₂ reduction and improving agricultural production.



Long Yu/Yidong Zhang

Chief Scientist of Institute of Chemistry, Henan Academy of Sciences,
Professor of South China University of Technology

Presentation Title: Development of Starch-based Eco-friendly Materials and Their Applications

Abstract: Starch-based materials have attracted significant attention over the past decade due to their low-cost, from renewable resources, wide availability, biodegradability, edibility, and potential as animal feed in post-product applications. It has showed great potential in packaging materials. More recently, the starch-based materials have demonstrated great protentional application in agriculture. For example, starch-based hydrogels or super-absorbent polymer (SAP) enable process economy by reducing water usage and irrigation time.



Su Shiung Lam

Professor of Institute of Tropical Aquaculture And Fisheries, University
Malaysia Terengganu

Presentation Title: Microwave-Assisted Conversion of Biomass and Waste: A Circular Strategy for Energy and Resource Recovery

Abstract: Microwave-assisted processing utilizes microwave radiation as a heat source in an inert environment to thermochemically convert biomass and waste materials into value added products such as liquid oil, gases, and char. This technique has been successfully applied to a wide range of feedstocks, including forestry residues, furniture waste, fruit waste, waste cooking oil, agricultural by-products, and palm oil waste.

Conference Venue



Kenneth Matthew Lim

Program & Partnerships Manager of Global Centre for Green Fuels

Presentation Title: Bioethanol: Regional Policy & Market Developments for the application of the Road, Aviation, & Maritime industries.

Abstract: Before diving into the Bioethanol topic specifically, it's important to frame today's discussion in the context of what's happening globally. The global energy sector is currently in the midst of a significant oil supply shock, with disrupted key routes like the Strait of Hormuz exposing just how vulnerable the APAC region remains to external supply shocks.



Meng Gong

Professor of Innovative Wood Products and Timber Engineering and the Director of Wood Science and Technology Centre, the University of New Brunswick, Canada. Fellow of International Academy of Wood Science

Presentation Title: Building with Wood: Addressing Climate Change and Advancing the Circular Economy.

Abstract: Wood—a natural, sustainable, and renewable biocomposite—has a long history of serving humanity as a primary construction material. Advances in technology have led to the development of a wide range of modern engineered wood products (EWPs), such as laminated veneer lumber (LVL) and cross-laminated timber (CLT), which are now widely adopted in the construction sector. This talk will introduce the use of EWPs in building construction and explore how wood buildings contribute to climate change mitigation and support the principles of a circular economy.



Anawat Ketcong

Senior Researcher of SCG Chemicals Public Company Limited

Presentation Title: Commercial Opportunity in Low-Energy CO₂ Capture

Abstract: Carbon capture is expanding rapidly, but the high energy use and operating complexity of conventional amine absorption still limit deployment. This presentation introduces a low-energy CO₂ capture technology using Vacuum Pressure Swing Adsorption (VPSA).

We will share key development results showing significant lower specific energy consumption compared with an amine-based benchmark under representative conditions, and discuss the commercialization advantages of using an abundant, low-cost mineral adsorbent. The talk will conclude with the commercial opportunity, target applications, and our scale-up roadmap toward pilot and early market deployment, including partnership needs for demonstration and commercialization.



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2nd International Conference on Green Sustainable Development

International Cooperation Matching



Adhering to the philosophy of "Sustainable Development", this conference focuses on the in-depth integration of green materials and future energy, and builds an integrated platform featuring cutting-edge academic exchanges, technology transformation docking, and international cooperation and co-construction. It aims to help countries along the Belt and Road forge a green and low-carbon cooperation ecosystem and jointly advance the achievement of the Sustainable Development Goals.

To deepen international academic collaborative innovation and promote the in-depth integration of talent training and scientific research breakthroughs in the field of materials science, during the conference, the Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences (NIMTE) held special cooperation discussions with Mahidol University of Thailand. Centering on two core priorities — exchange student programs and the joint construction of a laboratory — both sides engaged in candid exchanges and in-depth consultations, reaching a series of consensus on cooperation.



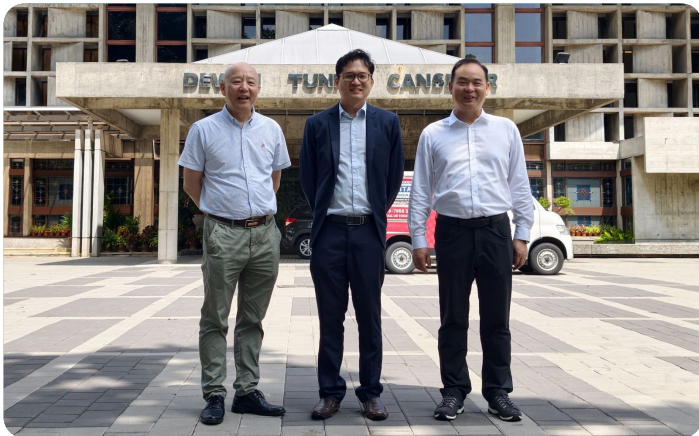
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2nd International Conference on Green Sustainable Development

International Cooperation Matching



International Cooperation Matching



Prof. Long Yu and Prof. Yidong Zhang, Acting Director of the Institute of Chemistry, Henan Academy of Science, China were invited to visit Prof. Chin Wei Lai at the Universiti Malaya. They had an insightful session on the green nanobcatalysts and polymerization science in corrosion protection related applications.

The meeting was both productive and enlightening, featuring engaging discussions on academic and research collaborations, as well as opportunities for short-term staff exchange and research funding. These interactions are key to fostering technical support, knowledge sharing, and innovation in corrosion prevention-particularly within the oil and gas industry.

Both sides are excited about the future of this partnership, which holds immense potential to advance research and create meaningful global impact. Together, Both sides aim to push the boundaries of scientific discovery and contribute to a more sustainable future. Prof. Chin Wei Lai's team looks forward to visiting the Henan Academy of Science by the end of this year for the next phase of collaboration.

International Cooperation Matching



Braskem, the largest producer of thermoplastic resins in the Americas, the world's 8th largest resin manufacturer, and a global leader in biopolymers (bio-based plastics), held in-depth discussions with Professor Liu Dehua. The participants exchanged views on the coordinated development of bio-based plastics and biodegradable plastics, aiming to jointly support the construction of a higher-level circular economy.

This efficient and pragmatic exchange has effectively advanced in-depth strategic cooperation between China and Brazil in green new materials and bioeconomy. It has laid a solid foundation for follow-up joint scientific research, project docking, industrialization of technologies and the establishment of a long-term academic exchange mechanism, helping both sides move toward a sustainable and low-carbon development future.



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Coffee Break and Dinner Banquet





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2nd International Conference on Green Sustainable Development

Campus and laboratory visit to Mahidol University



Conference Feedback



会议安排的热情周到，聚集了美国、加拿大、泰国、中国等可持续发展新材料领域的知名专家学者，报告精彩，交流充分，是一场难得学术盛宴！同时与泰国玛希隆大学互访为未来合作奠定基础，也期待更多合作！



09:28

感谢王老师支持！我们会更加努力做好每一场会议！



This conference provides excellent platform to link the world with China, bridge professional experts to the industries, and exchange the thoughts between participants. It truly helps to find the international collaborators and industrial partners. Every participant finds his or her needs.

昨天 23:19

Thank you so much Dear Professor Jin Zhu 🙏🙏🙏🙏🙏

05:41



It is truly helpful to find the international ...



22:16

This conference was well organized and professionally executed, demonstrating an impressive standard of conference management and international coordination. The event brought together leading experts, scholars, and industry professionals in the fields of advanced materials and sustainable energy from China, the United States, Canada, Thailand, Malaysia, Singapore, Brazil, Indonesia, and several other countries.

The keynote presentations given by the distinguished speakers were insightful, focusing on cutting-edge topics highly relevant to bio-based materials, green energy, and sustainable development. The conference successfully established a high-level international platform for academic exchange, interdisciplinary collaboration, and integration between academia and industry.

It is hoped that this international conference platform will continue to grow and flourish in the future by regularly bringing together global expertise, connecting industrial resources, and promoting innovative research, thus leading to the technological advancement in the fields of sustainable materials and energy.

I am honored to host distinguished scientists, Prof. Long Yu and Prof. Yidong Zhang, Acting Director of the Institute of Chemistry, Henan Academy of Science, China, at Universiti Malaya for an insightful session on the green nanobcatalysts and polymerization science in corrosion protection related applications.

The meeting was both productive and enlightening, featuring engaging discussions on academic and research collaborations, as well as opportunities for short-term staff exchange and research funding. These interactions are key to fostering technical support, knowledge sharing, and innovation in corrosion prevention—particularly within the oil and gas industry.

We are excited about the future of this partnership, which holds immense potential to advance research and create meaningful global impact. Together, we aim to push the boundaries of scientific discovery and contribute to a more sustainable future. Our team looks forward to visiting the Henan Academy of Science by the end of this year for the next phase of collaboration.



Roger Marchioni • 1 度

Global Commercial, Supply & Feedstock Director of Bio-based ...

1 天 • 🌐

Great work, [Tia Fu](#) !

Thank you for inviting Braskem to collaborate with the conference. It was an excellent opportunity to bring academia and industry together, sharing ideas on how to drive the transition toward reduced reliance on fossil feedstocks.

The discussions were very insightful, especially on how different bioplastics—both biobased and biodegradable—can work together to support a more circular economy.

The path is clear—now let's accelerate the transition with I'm green™ bio-based solutions.



Anawat Ketcong • 1 度

Decarbonization Technology

5 天前 • 🌐

I am pleased and honored to express my sincere gratitude to the organizers of the 2026 2nd International Conference on Green Sustainable Development — Green Materials and Future Energy for the opportunity to deliver a presentation on the topic “Low-Energy CO₂ Capture as a Gateway to Alternative Feedstock and Scalable CO₂ Utilization Opportunities” at S.D. Avenue on April 30, 2026.

[#UMResearch](#) [#GlobalRecognition](#) [#Nanotechnology](#)
[#AcademicExcellence](#) [#Universitimalaya](#) [#Corrosionscience](#)
[#HenanAcademyofScience](#) [#China](#)



Conference Feedback



Ali HOUICINE • 1 度

CEO @Fiberban | Industrialist | Real Estate Developer in Bali | Bio-based ...
1 天 • 9

Shaping the Future of Green Building in Bangkok!

I am honored to have participated as a speaker at the 2026 2nd International Conference on Green Sustainable Development during the Green Materials and Future Energy session.

From April 29th to May 3rd, Bangkok became a hub for global innovation, and I was thrilled to represent Fiberban to discuss a solution I am deeply passionate about: The Advantages of Banana Fiber as a Sustainable Insulation Material.

As we face a global construction challenge where buildings account for nearly 40% of CO2 emissions, the need for high-performance, carbon-negative materials has never been more urgent. During my session, we explored how upcycling agricultural "waste" (the banana pseudo-stem) can provide:

- Superior Thermal Performance comparable to traditional materials.
- A Circular Economy model that supports local farmers and reduces embodied energy.
- Healthy Indoor Environments through VOC-free and breathable insulation.

A huge thank you to the organizers ([Mahidol University](#), [Tia Fu](#)) for the invitation and [Jin Zhu](#), [Xiaoxiao Zhu](#), [Su Shiung Lam](#), [Kenneth Lim](#), [Roger Marchioni](#) for providing such a prestigious platform to discuss how we can bridge the gap between agricultural heritage and modern engineering.

The journey toward 2034 and our long-term sustainability goals continues, one fiber at a time.

[#GreenBuilding](#) [#SustainableInnovation](#) [#Fiberban](#) [#CircularEconomy](#) [#GreenMaterials](#) [#SustainabilityConference](#) [#Bangkok2026](#) [#BioBasedMaterials](#)



第二届泰国可持续发展会议主要聚焦于能源和材料领域，在大会组委会精细、专业、认真的组织下，本次会议取得了圆满成功。同时，与会代表也具有很高的代表性，汇聚了领域内多个国家的高水平研究者与产业专家。在此，我祝愿会议能够持续地举办，越办越成功，在行业内办出声誉。



Sandhya Babel • 1 度

World Top 2% Scientists by Stanford; ...
2 天 • 9

Happy to deliver a keynote talk in 2nd International conference on Green Sustainable Development – Green Materials and Future Energy held at S.D. Avenue hotel Bangkok from April 29 to May 1, 2026. Line of expert speakers and the talks were really commendable. Students from Sirindhorn International Institute of Technology (SIIT) also attended day 1 of the conference.

[#biomass](#) [#sustainable](#) [#green](#) chemistry

显示译文



   Deepak Rana和32其他会员

1 次转发

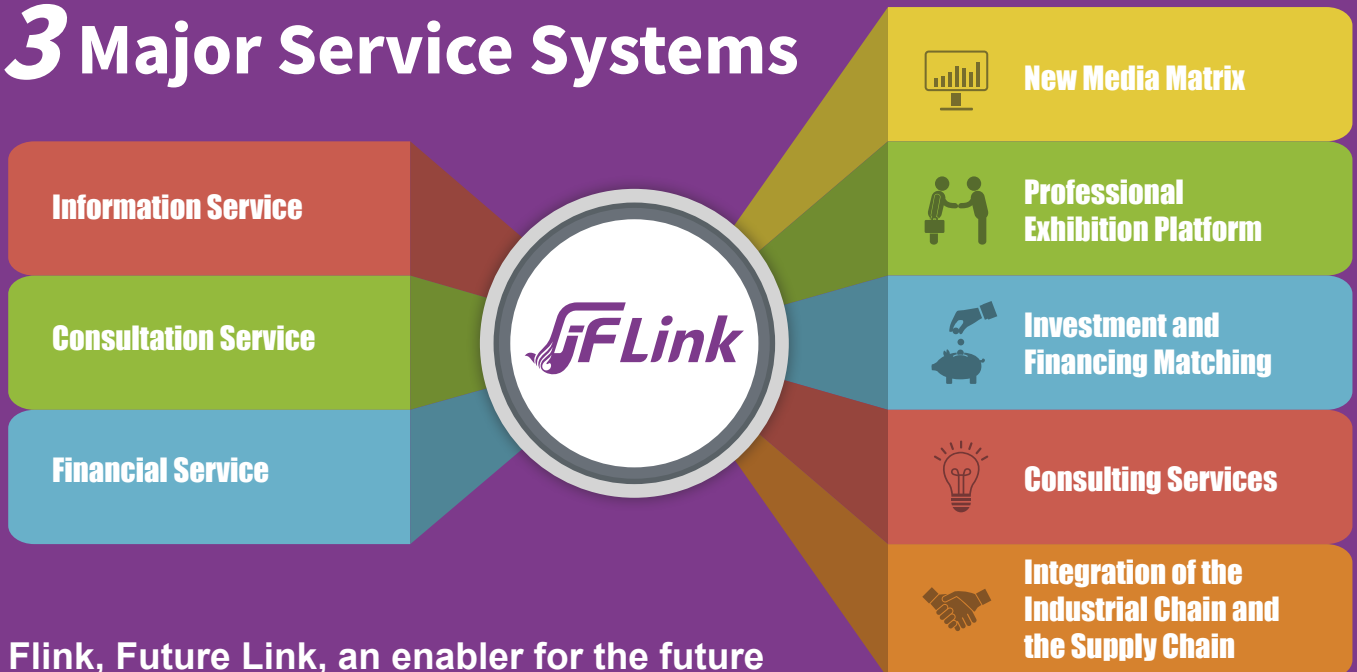


———— Ningbo Flink Information Technology

Ningbo Flink Information Technology Co., LTD (Flink), founded in October 2024, is a one-stop technology service platform focusing on the future industrial chain. With the support of future industry data information, Flink focuses on six major tracks of future industries: future manufacturing, future information, future materials, future energy, future space, and future health; And Flink provides three major service systems: future industry chain information service, future industry chain consulting service, and future industry chain investment and financing service.



3 Major Service Systems



Flink, Future Link, an enabler for the future industrial chain.

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Zhenhai District, Ningbo City, Zhejiang Province, 315200, China
Contact: +86 189 6981 8753

2026 International Conference Planning

20-23 September | Tashkent, Uzbekistan <<<<

The 2nd China-Central Asia International Conference on the Innovation and Cooperation of Agricultural Science and Technology

Key words: Thematic Forums (Cotton, Characteristic Fruits and Melons, Animal Husbandry, Biosafety, Saline-Alkali Land, Efficient Water Resource Utilization, Climate Change, Smart Agriculture, Green Materials, etc.)



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CCAIC 2026



25-30 October | Ningbo, China <<<<

2026 2nd International Conference on Advanced Materials

Key words: Green Sustainable Development, Green agriculture, Bio-based Materials, Two-dimensional Materials and Other Nanomaterials, Advanced Ceramic Materials, Energy Materials and Electrochemistry, Polymer Recycling



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BRCAM 2026





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2026 2nd International Conference on Green Sustainable Development



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Conference Live
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