



BRCAM 2025

**International Conference
on Advanced Materials**

20-23 October | Ningbo, China

Post Conference Report

Thank You Letter

Dear Colleagues,

On behalf of the BRCAM organizing committee, I wish to extend our most sincere gratitude for your participation in the International Conference on Advanced Materials 2025. Your presence in Ningbo from 20 to 23 October 2025 was instrumental in creating a truly stimulating and memorable event.

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 success of this year's event fills us with great anticipation for the future. We therefore very much look forward to the prospect of welcoming you back for the International Conference on Advanced Materials 2026, where we shall endeavour to build upon this year's achievements.

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

Yours faithfully,

The Organizing Committee
International Conference on Advanced Materials 2025

Ningbo

Beginning

Starting Point of the Ancient Maritime Silk Road: as an important departure port of the ancient Maritime Silk Road, Ningbo boasts rich maritime culture and historical relics, such as the Tianyi Pavilion Library, showcasing China's long-standing cultural heritage.

BRCAM 2025

From October 20 to 23, the Belt and Road International Conference on Advanced Materials 2025 was successfully held in Ningbo, China.

Building on the success of the inaugural conference in South Africa in 2024, this year's event leveraged Ningbo's regional and industrial strengths as a starting point of the 'Maritime Silk Road' to further elevate its international and professional standards. It brought together over 400 materials science and technology experts from more than 30 countries, focusing on cutting-edge breakthroughs in new materials and their industrial application.

The conference also aimed to establish a transnational collaborative innovation network and advance the path toward green and sustainable development. Guided by the concept of green and sustainable development, the conference featured 7 thematic forums, including those on 2D Materials and Future Devices, Green Composite Materials, Bio-based Materials, Green Agriculture, Biomedical Materials, Green Polymer Recycling, and Energy Materials.

Under the theme "New Materials Link the Future, Jointly Building a Win-Win New Silk Road", the conference promoted key initiatives through academic discussions, industrial collaboration meetings, and policy dialogues. These initiatives included the incubation of international joint R&D projects, the co-establishment of joint laboratories and technology transfer centers, cross-border talent exchange programs, and industrial incubation cooperation involving international business delegations. Ultimately, the conference sought to build an innovative community with five-dimensional collaboration among 'Industry, Academia, Research Institutions, Government, and Business', facilitating technology sharing and market win-win outcomes.

Conference & international cooperation

400
Delegates

120
Speakers

30
Countries and Regions

100
International University Teams

13
Academicians

120
International Renowned Experts

7
Sessions

80
Cooperation and connection

Hosting



Organizing



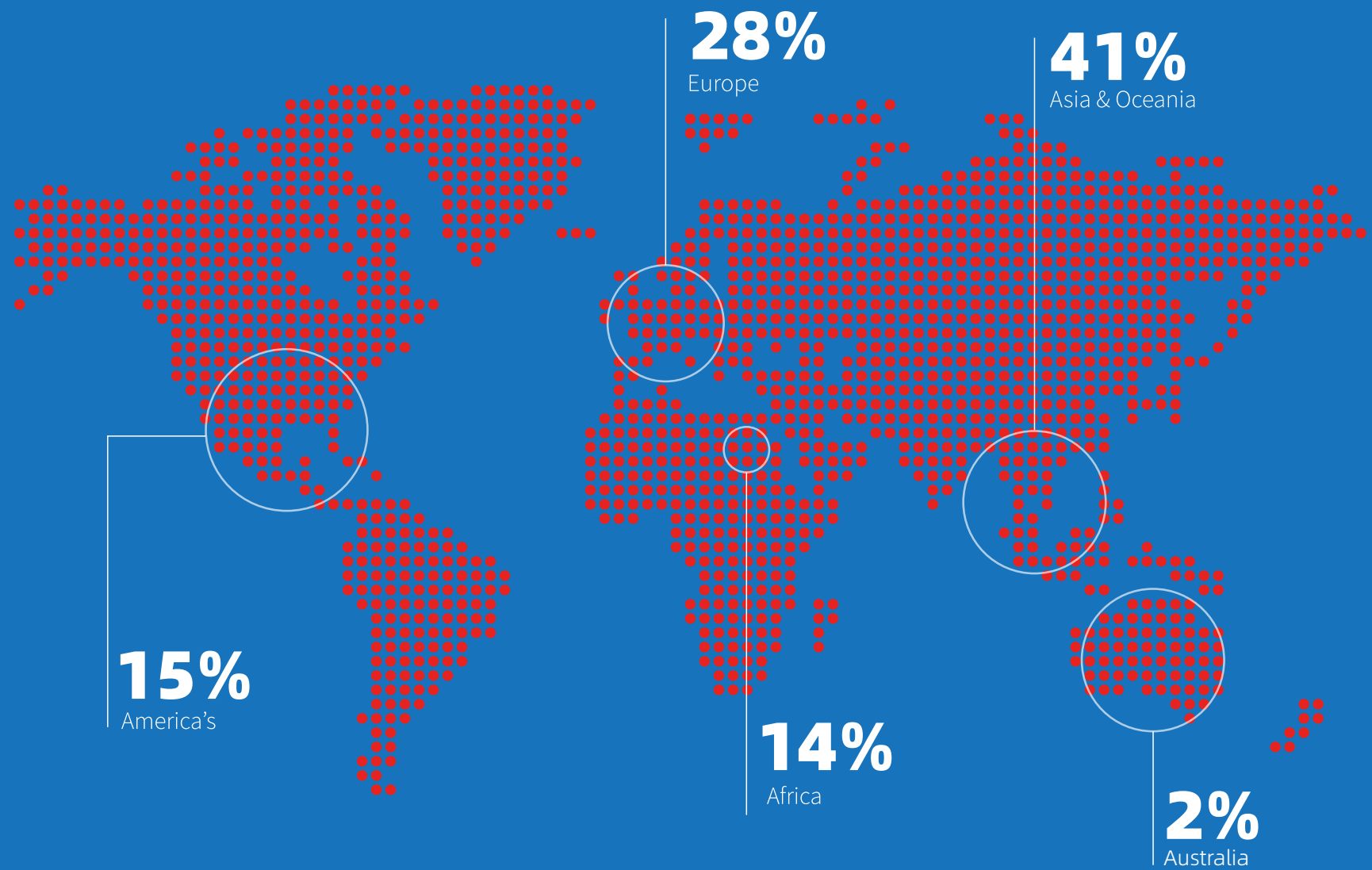
Supporting Organization



30+ Countries Have Participated



2025 BRCAM Has Gathered Over 400 Materials Science Experts From More Than 30 Countries and Regions Around the World

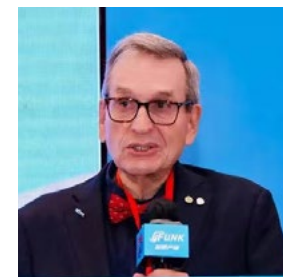




13 Academicians

2025 International Conference
on Advanced Materials

2025 International
Conference on Advanced
Materials



Rodrigo Martins



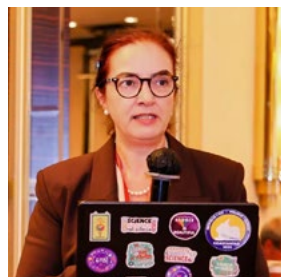
Shu-Hong Yu



Seeram Ramakrishna



John Wang



Elvira Maria
Correia Fortunato



Giancarlo Ruocco



Peter Sachsenmeier



Thomas J. Webster



Ze Xiang Shen



Bhekie Brilliance Mamba



Dehua Liu



Xinying Liu



Di Wei

128 Speakers, 432 International Experts



400⁺
Delegates



100⁺
International University Teams



30⁺
Countries and Regions



120⁺
Speakers

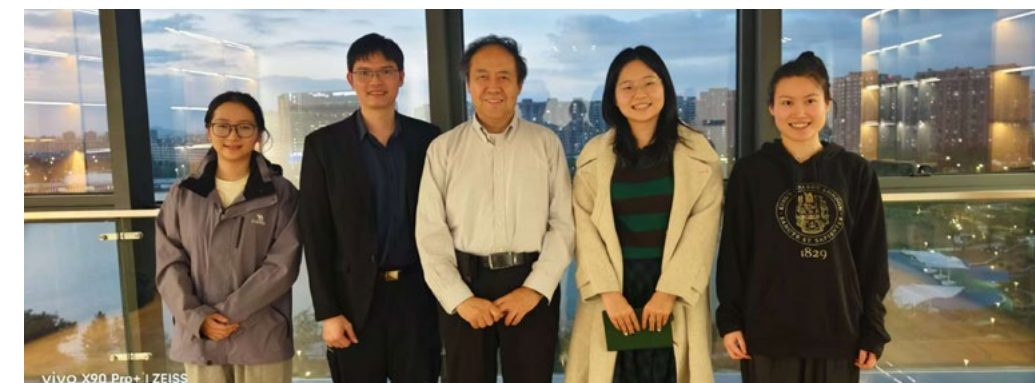


International Cooperation Matching

Ningbo University of Technology conducts exchange and connection with Rodrigo Martins and Elvira Maria Correia Fortunato.



80⁺
Cooperation and connection



Eastern Institute of Technology, Ningbo conducts exchange and cooperation with The Eastern Institute of Technology, Ningbo, conducts exchange and cooperation with Dr. Jason Yuan Chong Lim.



13⁺
Academics

Ningbo Plastics Association and Ningbo New Energy Industry Chamber of Commerce conduct exchange and cooperation with distinguished professors.



International Cooperation Matching

The faculties at XJTLU held a fruitful discussion with Academician Professor Seeram Ramakrishna, a Chair Professor at Tsinghua University and Director of the iWearables Centre. They explored exciting possibilities for future collaborations in critical areas of sustainability between XJTLU and leading international institutions.

Dr Filippo Boi discussed possible collaborative opportunities in the areas of biomagnetism and nanomagnetism with Dr Stefania Della Penna, Associate Professor from the University of G. D' Annunzio Chieti-Pescara and with Dr Di Wei, Professor at the Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences.



International Cooperation Matching



Peter Sachsenmeier presented his new book to Professor Guang Yang of Huazhong University of Science and Technology and the professor's students.



Bhekie Brilliance Mamba and Professor Dan Liu from Tiangong University held an exchange with the journal Energy & Environmental Materials.

International Cooperation Matching



The vice chancellor of Harare Institute of Technology talked about exchange and cooperation at the conference.

International Cooperation Matching



The Speakers attending the conference conducted a survey tour of the Shaoxing (Zhejiang) Foreign High-Level Talent Innovation Cluster.

Plenary Session

International Advanced Materials Forum



Opening Ceremony



Rodrigo Martins President of the European Academy of Sciences, Academician of the European Academy of Sciences, and Professor of NOVA University Lisbon, Portugal



Shu-Hong Yu Professor of the University of Science and Technology of China and Academician of the Chinese Academy of Sciences



Seeram Ramakrishna Chair Professor of Tsinghua University and Director of the iWearables Center



Bhekie Briliance Mamba Academician of the Academy of Science of South Africa, Executive Dean of the College of Science, Engineering and Technology at the University of South Africa, and former Director of the Nanotechnology and Water Sustainability Research Unit at the University of South Africa

Plenary Talk



Shu-Hong Yu
Professor of the University of Science and Technology of China and Academician of the Chinese Academy of Sciences



John Wang
Academician of the Singapore National Academy of Engineering and the Singapore National Academy of Sciences; Professor of Materials Science and Engineering at the National University of Singapore (NUS)



Seeram Ramakrishna
Chair Professor of Tsinghua University and Director of the iWearables Center



Giancarlo Ruocco
Fellow of European Academy of Sciences; Fellow of National Academy of Sciences of Ukraine; Chief Scientist, Italian Institute of Technology



Bhekie Briliance Mamba
Academician of the Academy of Science of South Africa, Executive Dean of the College of Science, Engineering and Technology at the University of South Africa, and former Director of the Nanotechnology and Water Sustainability Research Unit at the University of South Africa

Two-dimensional Materials and Innovative Applications for Future Devices



Cheng-Te Lin, Professor of Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences



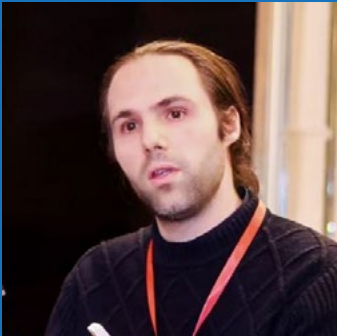
Hong-Zhang Geng, Professor of Tiangong University



Shaojuan Li, Professor of the Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences



Munir Hussain, Lecturer of Zhejiang Sci-Tech University



Filippo Boi, Associate Professor of Xi'an Jiaotong-Liverpool University



Marco Genovese, Director of the Quantum Optics Research Sector of INRIM



Rodrigo Martins

President of the Academia Europaea, Member of the Academia Europaea, Professor of NOVA University Lisbon, Portugal

The forum centers on: For materials like MXene and graphene, it focuses on their synthesis, modification, structural regulation and performance optimization; at the device and application level, it highlights the development of electrochemical energy storage devices, portable sensors and flexible optoelectronic devices, as well as the materials' potential in life and health, and energy fields; it also covers the demand for new devices from IoT and AI, and mentions the industrial scale to promote industry-academia-research collaboration.



Liangzhen Long, Vice President of Grahope New Materials Technologies, Inc., Founder of Super Graphene IP



Mokhotjwa Simon Dhlamini, Distinguished Professor of University of South Africa



Bakang Mothudi, Professor of University of South Africa



Joseph M Sithole, Senior Lecturer of University of South Africa



Zhengming Sun

Professor of Southeast University



Di Wei

Professor of Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences

Energy Materials

The Energy Materials Forum focuses on the themes of "energy storage materials and devices, carbon neutrality, and solid-state batteries" and conducts in-depth discussions on the key technologies and industrialization pathways of energy materials in the areas of innovation in preparation processes, breakthroughs in performance bottlenecks, and optimization of system integration.



Zhaojun Han, Professor of Eastern Institute of Technology, Ningbo



Weibo Gao, Engineer of the Ningbo Institute of Measurement and Testing



Dan Liu, Professor of Tiangong University



Mustafa Azeem, Assistant Professor of Harbin Institute of Technology



Kolan Madhav Reddy, Associate Professor (Tenured) of Shanghai Jiao Tong University



Xin Su, Professor of Harbin Institute of Technology (Weihai)



Mehdi Khodaei, Professor of K. N. Toosi University of Technology



Xiangzhen Zhu, Associate Researcher of Eastern Institute of Technology, Ningbo



Fan Chinbay Qinbai, Sinomec Hydrogen Energy Technology Co., Ltd. CEO&CTO



Huaiyu Shao, Associate Professor of University of Macau



Phumlani F Msomi, Professor of University of South Africa



Nithyadharseni Palaniyandy, Associate Professor of University of South Africa



Tianze Wu, Presidential Post-Doc Fellow of Nanyang Technological University



Akhil Garg, Associate Professor of Xi'an Jiaotong-Liverpool University



Nicholas Musyoka, Associate Professor of University of Nottingham Ningbo China



Fuqiang Huang, Chair Professor of Shanghai Jiao Tong University



Tao Wu, Chair Professor of University of Nottingham Ningbo China



Xinying Liu, Professor of University of South Africa

Green Composite Materials

Confronting the imperatives of enhancing interfacial adhesion and enabling recycling in green composites. This forum is dedicated to advancing high-value utilization of recycled carbon fibers, industrial waste streams, and sustainable bio-foams, investigating holistic strategies for material upgrading and circularity.



Yunzhongze Hu, University of Nottingham Ningbo China



Azim Uddin, Core Member of Zhejiang (Shaoxing) High Level Foreign Experts Innovation Center



Guowei Chen, Professor of Nanjing Forestry University



Shaoping Qian, Associate Professor of Ningbo University



Mokgaotsa Jonas Mochane, Professor of University of South Africa



Aaron Mukuya, Engineer of Harare Institute of Technology



Yan Li

Professor of Tongji University, Dean of the School of Aerospace Engineering and Applied Mechanics

Green Recycling of Polymers

This forum centers on the chemical recycling of polymers and dynamic polymer systems. It focuses on novel strategies for the efficient degradation and chemical recycling of waste polyurethane and polyethylene, as well as reversible epoxy resins and thermosets based on dynamic covalent bonds, aiming to achieve high-value transformation of plastics.



Jason Yuan Chong Lim, Principle Scientist of A*STAR Institute of Materials Research and Engineering



Songqi Ma, Professor of Jiangnan University



Yinsong Zhao, Professor of East China Normal University



Shujun Zhao, Associate Professor of Zhejiang Sci-Tech University



Xu Wang

Professor of Zhejiang University of Technology and Dean of the School of Materials Science and Engineering

Bio-based and Green Sustainable Development



Peter Sachsenmeier, Professor of University of Oxford, UK; Fellow of German National Academy of Science and Engineering (acatech), Germany



Xin Zhao, Professor of China Agricultural University



Jie Bao, Professor of East China University of Science and Technology



Diana Estevez, Assistant Professor of Zhejiang University



Fengwei Xie, Professor of University of Nottingham-Ningbo China



Hongkun Wang, Associate Professor of Zhejiang University



Dehua Liu

Professor of Tsinghua University; Director of the Institute of Applied Chemistry; Fellow of the Canadian Academy of Engineering (FCAE)



Jin Zhu

Professor of Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences

Covering the full spectrum from catalytic conversion to high-value synthesis of biomass, this forum addresses the controlled production, cost control, and diversified applications of key bio-based materials in pursuit of a circular economy.



Haining Na, Professor of Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences



Xinyan Wang, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences



Yiping Cao, Associate Professor of Shanghai Jiao Tong University



Xin Liu, Associate Professor of Zhengzhou University



Liyuan Huai, Associate Professor of Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences



Xiaoxia Zhu

Professor of Beijing Normal University



Guang Yang

Professor of Huazhong University of Science and Technology



Jinggang Wang

Professor of Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences

Green Agriculture



Xiangdong Yang, Professor of Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences



Zhanying Zhang, Professor of Queensland University of Technology



Syed Muhammad Hassan Askri, CEO of HeXin Biotechnology (Shaoxing) Co., Ltd



Ankit Garg, Associate Professor of Xi'an Jiaotong-Liverpool University



Wenqing He, Professor of Agro-environment Protection Institute, MARA; Principal Investigator of agricultural plastic film research Innovationteam, CAAS



This forum encompasses the entire agricultural spectrum, from biomass conversion, specialized biodegradable mulch films, and novel fertilizer development to the analysis of plant-soil interactions and genetic traits, integrating materials science with agricultural practices for sustainable solutions.



Song Wei, Lecturer of Huazhong Agricultural University



Xinyi Shao, Assistant Professor of Institute of Chemical Industry of Forest Products, CAF



Muhammad Faheem Adil, Research Associate of Zhejiang University



Shafaque Sehar, Research Associate of Zhejiang University



Long Yu
Chief Scientist of the Institute of Chemistry, Henan Academy of Sciences; Professor of South China University of Technology



Fengwei Xie
Professor of University of Nottingham-Ningbo China

Biomedical Materials

Guests from home and abroad focus on the interdisciplinary field of nanomaterials and biomedicine, and conduct exchanges and discussions around such directions as the basic application and carrier development of nanomaterials, disease diagnosis, treatment and targeted delivery, biomedical detection and characterization technology, tissue regeneration and clinical treatment application, as well as the intersection of biomedicine and artificial intelligence.



Elvira Maria Correia Fortunato, Professor of NOVA University Lisbon



Jiang Chang, Professor of Shanghai Institute of Ceramics, CAS



Alberto Boffi, Professor of Sapienza University of Rome



Xiangjian He, Professor of University of Nottingham Ningbo China



Devrim Ünay, Professor of Izmir Democracy University, Co-founder of Zoi Data



Silvia Di Angelantonio, Associate Professor of Sapienza University of Rome



Fang Yang, Associate Professor of Cixi Institute of Biomedical Engineering, NIMTE, CAS



Stefania Della Penna, Associate Professor of University of G. d'Annunzio Chieti-Pescara



Nickolas Smith, Associate Professor of The University of Osaka



Faez Iqbal Khan, Assistant Professor of Xi'an Jiaotong-Liverpool University



Titus A.M. Msagati, Professor of University of South Africa



Muhammad Ali, Zhejiang Sci-Tech University

Event Highlights



Media Highlights



Conference feedback



i will surely come again for every conference you invite me.	Thanks! I enjoyed the conference. Let's plan the next one. Regards	谢谢您分享的照片！再次祝贺会议举办成功！
Hello Terentia, thanks so much! We look forward to attend this conference again next year 🍷🍷	amazing organization! kudos to all of you	Thanks! I enjoyed the conference. Let's plan the next one. Regards
你们的会议组织得很好，尤其是请来了那么多国际专家。🍷🍷🍷	收到，谢谢邓老师，也感谢会务组辛苦付出，会议举办非常成功！会议质量也非常高！🍷🍷 期待下次再会~	The conference was great! Thank and the entire organising and support team for delivering such a success
感谢邓老师以及组委会的安排，受益匪浅。🍷🍷🍷	amazing organization! kudos to all of you	谢谢。会议组织的很好，我也认识了不少国内生物质基材料专家、同行和一些企业。希望今后有机会跟大家合作🍷🍷
阳光 组织的很好！嘉宾水平高，组织团队专业，细节之处：摄影师很棒🍷🍷	The conference was great! Thank and the entire organising and support team for delivering such a success	收到，谢谢小邓，你们组织的非常好，也交流非常好，感谢你们。希望将来能有合作。🍷🍷🍷🍷
I was so much touched by the message you sent to me. I shared it with the vice chancellor and the members in my department we need to participate in all your future conferences 下午10:22	这次会议举办的很成功，感谢组委会的邀请，感谢 Grace 的全程支持，期待下一次🍷	Thank you and the team for organising everything! Pls help me thank Terentia and Daria too.
我们主要还是推广 我感觉对于我们期刊来说 这次是推出很多老外了	GOOD DAY. Thank you very much for the great conference and for the great assistance. Whenever you are in South Africa or Zimbabwe, feel free to contact me for any tips- suggestions or assistance. Charles Mbohwa 14:09	大家都非常的高兴啊，都非常的满意。收获这个颇丰啊。我们这个多联系，下次有活动需要我的话，我们会支持的啊。我这边朋友也会支持的，再见。



2026 International Advanced Materials Conference

At the end of October, 2026
Ningbo, China



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BRCAM 2026

Topics

Track 01: Energy Materials & Technology

Session 1: Perovskite Solar Cells
Session 2: Solar Energy Materials and Devices
Session 3: Aqueous Batteries
Session 4: Solid-State Batteries
Session 5: Fuel Cell
Session 6: Hydrogen Energy Materials
Session 7: Thermoelectric Materials and Devices
Session 8: Supercapacitors

Track 02: Environmental & Green Materials

Session 1: Materials for Adsorption and Separation
Session 2: Separation and Purification Materials
Session 3: Photocatalytic Materials
Session 4: Electrocatalysis Materials
Session 5: Eco-Materials
Session 6: Filtering Materials
Session 7: Membrane Materials
Session 8: Reduce, Reuse, Recycle and Recover of Resource Materials

Track 03: Metallic Materials and Alloys

Session 1: Superalloys
Session 2: Amorphous and High-Entropy Alloys
Session 3: Nanoporous Metals
Session 4: Liquid Metal Functional Materials
Session 5: Metal Matrix Composites
Session 6: Titanium Alloys
Session 7: Advanced Aluminum Alloys
Session 8: Magnesium and Magnesium Alloy

Track 04: Biomaterials & Biodevices

Session 1: Biomedical Nanomaterials

Session 2: Hydrogel Biomaterials
Session 3: Antibacterial Materials
Session 4: Nucleic Acid Functional Materials
Session 5: Soft Matter
Session 6: Bio-inspired Materials
Session 7: Materials in Sports and Health
Session 8: Microfabrication and 3D printing

Track 05: Advanced Separation Membranes Materials

Session 1: Gas Separation Membranes
Session 2: Ion Selective Membranes
Session 3: Ion Exchange Membranes
Session 4: 2D Material Membranes
Session 5: Nanofiltration Membranes
Session 6: Electrochemically Driven Membranes

Track 06: Porous Functional Materials

Session 1: Carbon Molecule Sieves
Session 2: Zeolites
Session 3: Metal-Organic Frameworks Materials
Session 4: Covalent Organic Frameworks Materials
Session 5: Porous Carbon Materials
Session 6: Porous Ionic Liquids
Session 7: Porous Organic Polymers
Session 8: Crystalline Porous Organic Salts

Track 07: Photonic and Optoelectronic Materials

Session 1: Semiconductor Optoelectronic Materials
Session 2: Subwavelength Optical Materials and Devices
Session 3: Photon-Integrated Chip Materials and Devices
Session 4: Quantum Dots
Session 5: Optical Interconnects
Session 6: Crystalline Optical Materials

Session 7: Optoelectronic Energy Materials
Session 8: Micro/Nano-Lasing Materials and Devices

Track 08: Two-dimensional Materials and Devices

Session 1: Graphene and Graphene-derived Materials
Session 2: MXenes
Session 3: hexanol Boron Nitride
Session 4: Silicene, Germanene, Borophene, Black Phosphorus, etc.
Session 5: MoS₂, WS₂, etc.

Track 09: Emerging Fundamentals

Session 1: Quantum Materials
Session 2: Metamaterials
Session 3: Stimulus-Responsive Functional Materials
Session 4: Smart Materials
Session 5: Magnetic Functional Materials
Session 6: Sensing Functional Materials

Track 10: AI and Materials

Session 1: AI for Materials Science
Session 2: Machine Learning & Deep Learning
Session 3: High-Throughput Materials Experiments
Session 4: Materials Science by AI
Session 5: Modeling & Simulation Applicable to Materials
Session 6: Computer-aided Design of Materials
Session 7: Digital Twin Technology for Materials Industry

Track 11: Young Scientist Forum

Track 12: Postgraduate Forum Updating...

Historical Culture

Ningbo has a long history and possesses numerous ancient sites, among which the Hemudu Ruins reveal the dawn of human civilization during the Neolithic Age.



Busines and Commercial Development

Ningbo boasts a developed open economy with a high degree of outward orientation, making it a popular choice for foreign investment. The Ningbo-Zhoushan Port ranks among the world's largest in terms of throughput, showcasing Ningbo's pivotal role in international trade and logistics.



Ningbo Cuisine Culture

Traditional Snacks Ningbo Tangyuan (Sweet Glutinous Rice Balls)



Seafood Delicacies
Bordering the sea, Ningbo is abundant in seafood resources



FLink 启明产业链
FLink Qiming Production Chain

Ningbo Qiming Production Chain 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.

Ningbo Qiming Production Chain Information Technology Co., Ltd. (FLink)
3rd Floor, C2, Tus Park, No. 1277 Zhongguan West Road, Zhuangshi Street,
Zhenhai District, Ningbo City, Zhejiang Province, 315200, China
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2026

International Conference on Advanced Materials



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