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BCEIA 2025

BCEIA 2025

● World Exposition on Analytical Science and Biochemical Technology

THE 21st BEIJING CONFERENCE
AND EXHIBITION ON
INSTRUMENTAL ANALYSIS

第21届北京分析测试学术报告会暨展览会

REPORT 会后报告

China Association for Instrumental Analysis

中国分析测试协会
2025.11



BCEIA 2025

分析科学 创造未来
Analytical Science Creates Future

10-12 SEP. 2025
Beijing, China



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辉煌四十载 再谱新篇章
1985-2025
40 YEARS PROSPERITY A NEW ERA OF ANALYTICAL SCIENCE

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Sponsor

China Association for Instrumental Analysis (CAIA)

Overseas Partners

Pittcon, Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy

Japan Analytical Instruments Manufacturers' Association (JAIMA)

Japan Scientific Instruments Association (JSIA)

Messe München

Scientific Equipment and Furniture Association (SEFA)

Lab Indonesia

International Academic Cooperation Partners

American Chemical Society Publications (ACS Publications)

Royal Society of Chemistry (RSC)

Springer-Nature

Tsinghua University Press

Institute of Physics Publishing (IOPP)

WILEY

Taylor & Francis Group

MDPI

Strategic Cooperation Media

www.instrument.com.cn

EWG1990

www.antpedia.com

Labor Praxis





BCEIA 2025 全球分析科学与生化技术博览 World Exposition on Analytical Science and Biochemical Technology **1985 2025** **PREFACE**



The 21st Beijing Conference and Exhibition on Instrumental Analysis (BCEIA 2025), sponsored by the China Association for Instrumental Analysis (CAIA), was successfully held at the China International Exhibition Center (Shunyi Hall) in Beijing from September 10 to 12, 2025. Themed “40 Years of Prosperity, A New Era of Analytical Science”, the event marked BCEIA’s 40th anniversary. It served as a high-standard platform for global analytical testing professionals to exchange insights on the latest advancements in analytical science, instrumental development, and industrial trends.

The event attracted 39,703 professionals from government regulatory authorities, universities, research institutes, medical institutions, and local testing organizations. The academic conference featured a distinguished lineup of international experts sharing insights on novel topics such as genomics, single-cell sequencing, and artificial intelligence, as well as 18 parallel sessions covering key fields including mass spectrometry, chromatography, electroanalytical chemistry, spectral and imaging analysis, magnetic resonance, life omics, environmental analysis, and nanoanalysis, among others. Over 1,000 high-quality presentations were delivered, attracting more than 4,500 domestic and foreign professional scholars. Positioned as a “World Exposition on Analytical Science and Biochemical Technology”, the exhibition spanned 53,400 m² and gathered 742 global instrument manufacturers, showcasing over 10,000 new laboratory analytical and biochemical technology products while hosting numerous new product launches, solution promotions, and industry-university-research cooperation activities that fostered a vibrant exchange atmosphere.

To commemorate its 40th anniversary, BCEIA 2025 organized special activities, including the “CAIA Special Contribution Award” ceremony and a dedicated “BCEIA 40th Anniversary Commemorative Exhibition”.

After 40 years of dedicated development, BCEIA has evolved into a premier international conference and expo in China’s analytical testing field, accompanying the growth of generations of professionals and serving as a vital hub for academic exchange, technological innovation, and industrial empowerment.

We look forward to welcoming you to the Capital International Exhibition & Convention Center for BCEIA 2027 to embark on a new journey together!

China Association for Instrumental Analysis (CAIA)



OPENING CEREMONY

Authoritative experts, top corporate leaders, and representatives of international organizations from the global fields of instrumental analysis and life sciences gathered to celebrate and witness the milestone occasion of BCEIA's 40th anniversary.

OPENING REMARKS



Prof. Jiang Guibin
Academician, Chinese Academy of Sciences
Chairman, BCEIA2025
President, China Association for Instrumental Analysis
Research Center for Eco-Environmental Sciences, CAS



Prof. Liu Maili
Academician, Chinese Academy of Sciences
Chairman, BCEIA2025 Academic Committee
Vice President, China Association for Instrumental Analysis
Innovation Academy for Precision Measurement Science and Technology, CAS



Mr. Hideto Yoshida
Managing Director, Japan Analytical Instruments Manufacturers' Association
(BCEIA International Cooperative Partner Representative)

HOST



Prof. Zhang Xinrong
Vice Chairman,
BCEIA2025
Tsinghua University



Prof. Zhang Yukui
Academician, Chinese Academy of Sciences
Vice Chairman,
BCEIA2025
Dalian Institute of Chemical Physics, CAS



Prof. Chai Zhifang
Academician, Chinese Academy of Sciences
Institute of High Energy Physics (IHEP), CAS



Prof. X. Chris Le
Fellow, Royal Society of Canada
University of Alberta,
Canada



Prof. Yang Xiurong
Academician, Chinese Academy of Sciences
Vice Chairman,
BCEIA2025
Changchun Institute of Applied Chemistry, CAS

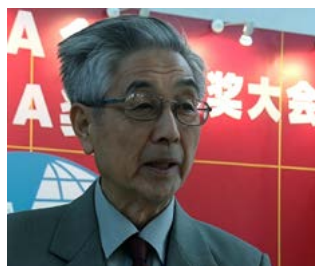


Prof. Liu Huwei
Chairman, BCEIA2025 Organizing Committee
Peking University



HONOR CONTRIBUTIONS, INHERIT SPIRITS

The highly anticipated "CAIA Special Contribution Award" ceremony was held during the opening ceremony, honoring former association leaders for their outstanding contributions to BCEIA's development. Their vision and dedication laid a solid foundation for BCEIA's growth and left a precious spiritual legacy for the industry. Over 40 years, the spirit of unremitting exploration and inheritance has driven BCEIA toward greater glory.



Yang Hua
Chairman of the Organizing Committee for the 2nd to 11th BCEIA
Former Director-General of the Conditions Bureau, State Science and Technology Commission



Wang Shunchang
Chairman of the Organizing Committee for the 13th and 14th BCEIA
Former Deputy Director-General of the Conditions and Finance Department, State Science and Technology Commission



Wu Boer
Vice Chairwoman of the 15th and 16th BCEIA
Former Inspector of the Conditions and Finance Department, Ministry of Science and Technology



Zhang Yuying
Chairwoman of the Organizing Committee for the 15th and 16th BCEIA
Former Deputy Director, National Science and Technology Infrastructure Center (NSTIC)





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1985 2025 ACADEMIC CONFERENCE

PLENARY LECTURE: DISTINGUISHED KEYNOTE SPEAKERS

The plenary lecture session stood as the culmination of intellectual dialogue. Four authoritative scientists from the interdisciplinary fields of analytical science, life sciences, and artificial intelligence were invited to conceive the future of analytical science.



Prof. Jiang Guibin

Academician, Chinese Academy of Sciences
Chairman, BCEIA2025
China Association for Instrumental Analysis
Research Center for Eco-Environmental Sciences, CAS

Topic: Ushering in a New Paradigm: 40 Years of the Most Glorious Analytical Science in China



Prof. Jonathan V. Sweedler

James R. Eiszner Family Endowed Chair in Chemistry,
University of Illinois at Urbana-Champaign
Editor-in-Chief, Analytical Chemistry

Topic: High Throughput Single Cell Mass Spectrometry to Unravel Cell Heterogeneity in Health and Disease



Prof. Xie Xiaoliang

Academician, Chinese Academy of Sciences
Changping Laboratory | Peking University

Topic: Genomic Medicine Advances by DNA Sequencing and Single-Cell Omics Technologies



Prof. E Weinan

Academician, Chinese Academy of Sciences
Peking University

Topic: AI-inspired Algorithms for Microscopies



ACADEMIC CONFERENCE HIGHLIGHTS DUAL-DRIVEN: FOSTERING A FULL-CHAIN INNOVATION ECOSYSTEM

Centered on the dual drivers of "technological innovation + practical application," the academic conference formed a comprehensive innovation cycle encompassing "basic research – technological development – industrial application." This approach fully showcased the synergy between cutting-edge technology and industry needs.



The conference attracted the participation of over 4,500 experts and scholars from 18 countries and regions, with more than 1,200 academic abstracts submitted and over 1,000 high-level presentations delivered. Additionally, 46 exceptional posters (supported by ACS and RSC) were selected for recognition. Nearly 20 leading enterprises, including Shimadzu, Agilent, Bruker, and Alta Scientific, participated and delivered presentations that underscored the significance of academia-industry synergy and laid a strong foundation for ongoing innovation and advancement in analytical science.



INTERDISCIPLINARY INTEGRATION AND TECHNOLOGICAL INNOVATION THROUGHOUT THE CONFERENCE DISCUSSIONS

Building an "Interdisciplinary-Solution" Innovation Pathway

By facilitating in-depth integration with AI, omics, environmental sciences, and life sciences, the conference established an "interdisciplinarity-driven problem-solving" innovation paradigm that continues to underpin the advancement of analytical science. It facilitated and advanced breakthroughs in novel device design, detection methodologies, and data processing efficiency, and contributed to the mitigation of traditional analytical bottlenecks. Additionally, it drives interdisciplinary innovations across clinical diagnostics, emerging environmental pollutant detection, TCM active component research, drug discovery, food safety, and life omics; these innovations continue to address cross-domain challenges in separation, precise identification, and real-time monitoring, accelerating industrial digital/intelligent upgrading. Ultimately, it advances China's research alignment with international frontiers in methodological innovation, tech integration, and practical application, fostering high-quality development of analytical science.



Prof. Chai Zhifang

BCEIA will have an increasingly broad future. It guides the direction for young people in analytical chemistry and promotes the advancement of China's analytical discipline toward high-end development.

Core Technology Leadership and Full-Process Implementation

Conference content encompasses key technologies: artificial intelligence (AI), mass spectrometry technology (spatial metabolomics, high-resolution mass spectrometry), nanotechnology (nanosensing, nanozymes), microfluidic technology, surface-enhanced Raman scattering (SERS), electrochemiluminescence, cation exchange stationary phase, single-molecule/single-particle detection, in vivo analysis, flexible devices, and surface/interface characterization. Comprehensively covers the entire industrial chain of "Analytical Instrument R&D – Data Processing – Scenario Application."



BCEIA CONFERENCE: FIVE KEY DIMENSIONS SUPPORTING INDUSTRY DEVELOPMENT AND EMPOWERING HIGH-QUALITY UPGRADING

Driving Technological Iteration: Breaking traditional bottlenecks and clarifying upgrading directions.

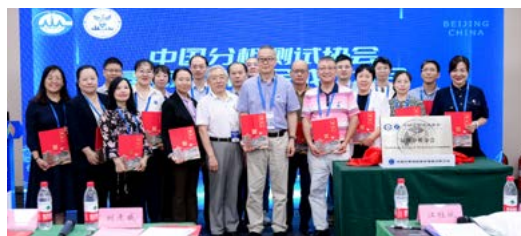


Prof. Zhang Lihua

BCEIA has marked its 40th anniversary since its founding. It serves as a broader platform for us to exchange insights with international peers, strengthen professional bonds, and lay a solid foundation for future cooperation.



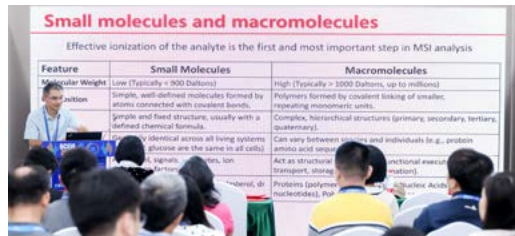
Expanding Application Boundaries: Connecting demands and addressing pain points across multiple fields.



Prof. Chen Huanwen

I have participated in BCEIA many times, and each time I gain new insights.

Promoting Industry-Academia-Research Collaboration: Accelerating technological transformation and driving industrial scaling.

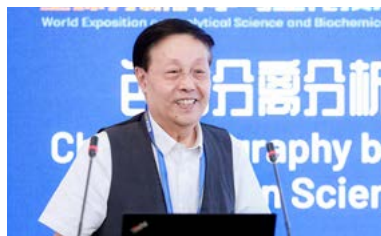
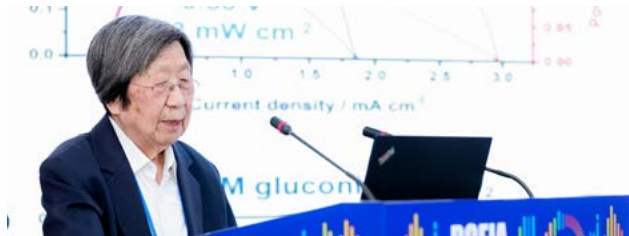


Nurturing Professional Talents: Consolidating the foundation for development and ensuring innovative vitality.



Prof. Li Gongke

BCEIA offers researchers and users in analytical chemistry an opportunity to get an up-close understanding of industry development and the frontiers of the discipline.





Prof. Lv Yi

As an international academic conference on analytical science and instruments, BCEIA is of great significance for the selection and establishment of research directions, as well as the growth of young talents.

Enhancing Industry Standardization: Unifying standards and improving credibility.



THE 5TH FOOD SAFETY RISK MONITORING SYMPOSIUM

Focusing on the theme of "New Risks, New Technologies, New Strategies for Food Safety," the symposium facilitated in-depth technical exchanges and academic deliberations on key topics, including food safety testing, traceability, prevention and control, risk assessment, and health food supervision.



Prof. Huang Chengzhi

BCEIA has built a platform for exchange and cooperation, promoted the industrialization of scientific and technological achievements, and made important contributions to advancing the development of the analytical testing industry.

THEMATIC FORUMS AND CONCURRENT MEETINGS

As an important part of BCEIA2025, 25 thematic forums and concurrent meetings provided a platform for casual communication, trend discussion, and collaboration among participants. Covering corporate management experience sharing, in-depth analysis of the industry's future, and policy interpretation, they facilitated information sharing, business matching, and resource integration.



Analytical Chemistry: Meet-the-Editor Session



Global Distributing and Channeling Conference
for Scientific Instruments



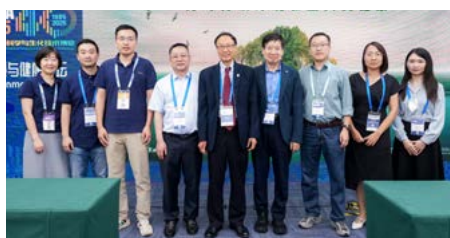
CSTM Instrument In-Service Performance
Evaluation Criteria and Evaluation Results Release



The 5th Young Scientists Forum



Operation and Management Strategies for SMEs
in Scientific Instruments



Environment & Health Forum



Analyst at 150: the longest running measurement
science journal continues to shape the field

辉煌四十载 再谱新篇章
1985-2025
40 YEARS PROSPERITY A NEW ERA OF ANALYTICAL SCIENCE

To advance the independent innovation and high-quality development of analytical science in China and enhance services for its members, the China Association for Instrumental Analysis (CAIA) established 15 new professional committees and branches dedicated to undertaking the Association's relevant operational activities during BCEIA 2025. The inauguration of these professional committees and branches is poised to significantly facilitate academic exchanges and drive the advancement of the sector.



Nucleic Acid Analysis

Chairman: Prof. Yang Chaoyong / Xiamen University



Magnetic Resonance

Chairman: Prof. Li Conggang / Innovation Academy for Precision Measurement Science and Technology, CAS



Life Omics

Chairman: Prof. Cai Zongwei /
Hong Kong Baptist University



Nanoanalysis

Chairman: Prof. Long Yi-Tao / Nanjing University



Chemometrics and Artificial Intelligence

Chairman: Prof. Shao Xueguang / Nankai University



Analytical Pharmacy and Analysis for Life and Public Safety

Chairman: Prof. Huang Chengzhi / Southwest University



Material Analysis

Chairman: **Prof. Hang Wei** / Xiamen University



Environmental Analysis

Chairman: **Prof. Liu Qian** / Research Center for Eco-Environmental Sciences, CAS



Molecular Spectroscopy

Chairman: **Prof. Tang Bo** / Laoshan Laboratory



Chromatography

Chairwoman: **Prof. Zhang Lihua** / Dalian Institute of Chemical Physics, CAS



New Pollutants

Chairman: **Prof. Zheng Minghui** / Hangzhou Institute for Advanced Study



Sample Preparation

Chairman: **Prof. Ouyang Gangfeng** / Sun Yat-Sen University



POCT Inspection and Testing

Chairman: **Prof. Li Chenzhong** / The Chinese University of Hong Kong, Shenzhen



Atomic Spectrometry

Chairman: **Prof. Hou Xiandeng** / Sichuan University



Toxicological Analysis

Chairman: **Prof. Xie Jianwei** / Academy of Military Medical Sciences



EXHIBITION

全球分析科学与生化技术博览
World Exposition on Analytical Science and Biochemical Technology

As a core segment of BCEIA, the exhibition is positioned as "a World Exposition on Analytical Science and Biochemical Technology," fully demonstrating the innovative vitality and technological trends of the analytical testing industry. The 53,400 m² exhibition area gathered 742 well-known domestic and foreign enterprises, presenting the industry's latest achievements and cutting-edge directions, and continuing to play a bellwether role in leading industrial development.



辉煌四十载 1985-2025 再谱新篇章 40 YEARS PROSPERITY A NEW ERA OF ANALYTICAL SCIENCE

Prof. Myeong Hee Moon

BCEIA strengthens collaborations across borders, fostering innovation that impacts many areas, from environmental science to healthcare. Reflecting on its 40-year history, it has grown into a major international stage and has supported the global analytical science community by facilitating knowledge exchange and driving the development of cutting-edge instrumentation.





DEMONSTRATE FULL-INDUSTRY-CHAIN COVERAGE

Exhibit Scope: Analytical and biochemical instruments, intelligent solutions, core components, reference materials & reagents, laboratory construction, and information management systems (hardware + software + products + services).

Application Fields: Penetrate strategic emerging industries and key livelihood fields, including biomedicine, food safety, environmental monitoring, energy and chemical industry, new materials, and in vitro diagnostics.



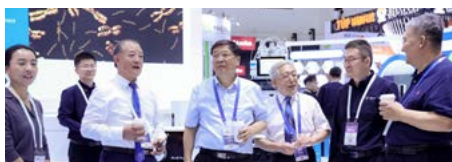
SHOWCASE CUTTING-EDGE TECHNOLOGY & HIGH-END PRODUCTS

High Integration & Intelligence: Full-process unattended operation; embedded advanced algorithms to support intelligent decision-making.

Pursuit of Ultimate Performance: Higher sensitivity, better resolution, and faster analysis speed.

Expansion of Application Scenarios: Rise of miniaturized and portable instruments, suitable for on-site rapid detection and in situ online analysis.

Multi-Technology Coupling: Coupling of chromatography, mass spectrometry, spectroscopy, and other technologies to provide multi-dimensional sample information.



REVEAL THE DOMESTIC INDUSTRY DEVELOPMENT

Transformation from "Having" to "Excelling": Full coverage and performance benchmarking of traditional general-purpose instruments; substantive breakthroughs in high-end precision instruments.

Strengthening of Core Supply Chain: Accelerated domestic substitution of core components; emergence of "specialized, refined, distinctive, and innovative" enterprises.

Branding & Internationalization: Upgraded design, user experience, and software systems; proactive overseas market expansion; transformation from "following" to "on par" and even "leading."



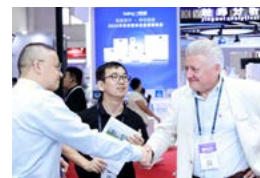
PROVIDE A HIGH-EFFICIENCY COMMUNICATION PLATFORM

Top Experts' Tour:

Insights into R&D innovations & core tech breakthroughs; forward-looking guidance to unlock new ideas.

Professional User Interaction:

Boosts targeted, high-efficiency matching of user needs with technical solutions.





A total of 28 projects from 45 organizations participated in the 2025 award application. The following 9 projects have won the award:

No.	Project Name	Award-winning Organizations
1	SinCell-100 Single-cell Metabolite Analysis Mass Spectrometer	China Innovation Instrument (Cii Tech) Co., Ltd., Ningbo University
2	Anyeep Cassitrap 120K Quadrupole-Fourier Transform Electrostatic Trap High-resolution Mass Spectrometer	Anyeep (Suzhou) Medical Technology Co., Ltd., Suzhou Anyeep Instrument Co., Ltd.
3	OPA-1000 Fully Automatic Ultra-large Size Metal Component In-situ Analyzer	NCS Testing Technology Co., Ltd.
4	BeNano 180 Zeta Pro Nanoparticle Size and Zeta Potential Analyzer	Dandong Bettersize Instruments Ltd.
5	MSI DPI-A Secondary Photoionization Mass Spectrometry Imaging System	University of Science and Technology of China, Beijing Viktor Technology Co., Ltd., Jiangsu Specst Scientific Instrument (SSI) Co., Ltd.
6	INSPEC 9000 Liquid Chromatography Tandem Mass Spectrometry System	Relibale (Hangzhou) Medical Technology Co., Ltd.
7	CALIBUS 5 portable carbon analyzer	Hangzhou EXPEC Technology Co., Ltd. Focused Photonics (Hangzhou), Inc.
8	QitVenture 6E Portable On-site Rapid Screening Mass Spectrometer	Ningbo Banff Biotechnologies Inc., Ningbo University, Medicsystem Biotechnology Co., Ltd.
9	LabTech PT3000 Automatic Purge and Trap System	Beijing Labtech Instruments Co., Ltd.



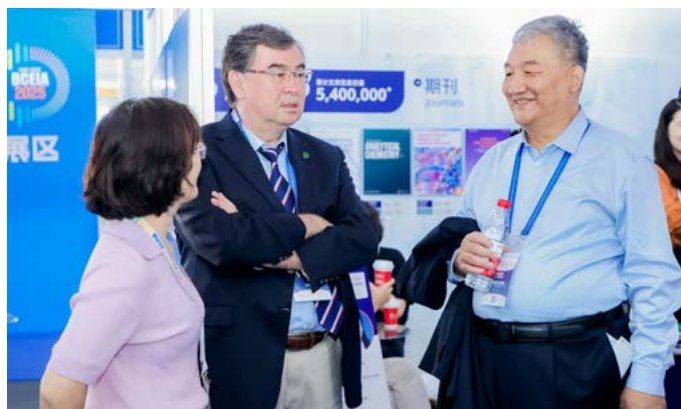


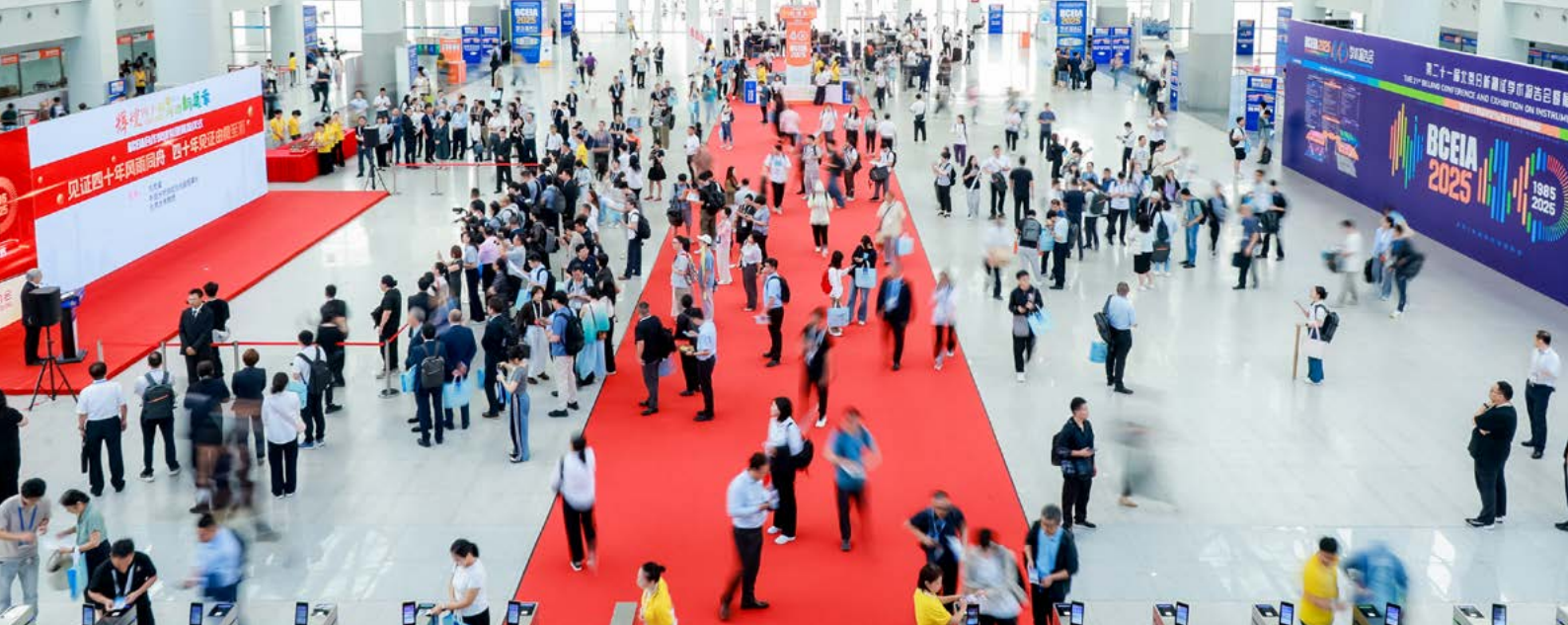
BCEIA2025 1985 2025 ACADEMIC JOURNALS EXHIBITION AREA

全球分析科学与生化技术博览 World Exposition on Analytical Science and Biochemical Technology

A Key Hub for Academic Exchange, Publication, and Dissemination

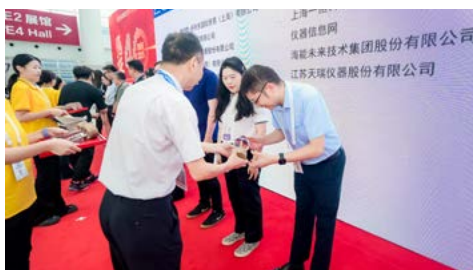
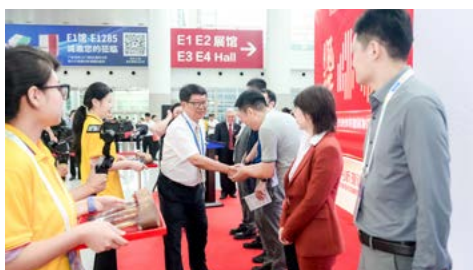
The Academic Journals Exhibition Area has been a vital hub connecting scientific research and academic publishing since its launch in 2023. The scale of the area has been expanded, with active participation from world-renowned publishing institutions and authoritative journals from around the world, to achieve a significant improvement in academic services. The exhibition area has fostered a strong on-site interactive atmosphere.



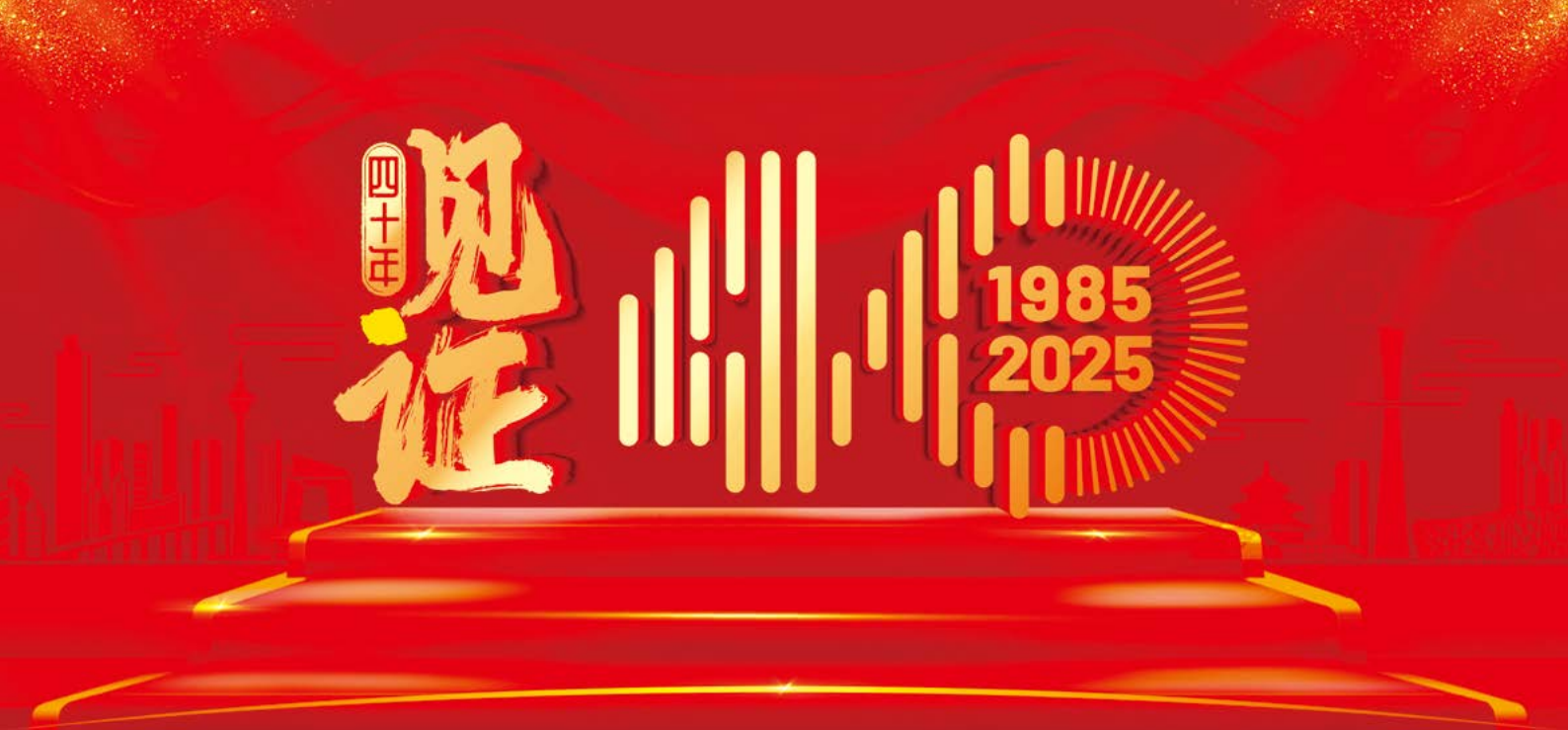


40TH ANNIVERSARY THEMED EVENTS Honorary Award Ceremony for Partners

In recognition of exhibitors' sustained trust, long-standing partnerships, and in-depth collaboration over the years, BCEIA 2025 specially launched the "Partner Honor," with nearly 100 domestic and foreign enterprises receiving this award.



CAIA Vice Presidents and BCEIA2025 Vice Chairs: Prof. Liu Mail, Prof. Zeper Abliz, Prof. Zhang Lihua, Prof. Liu Chengyan, Mr. Tian He, and Mr. Wu Xueti presented honors to the representatives of award-winning enterprises.



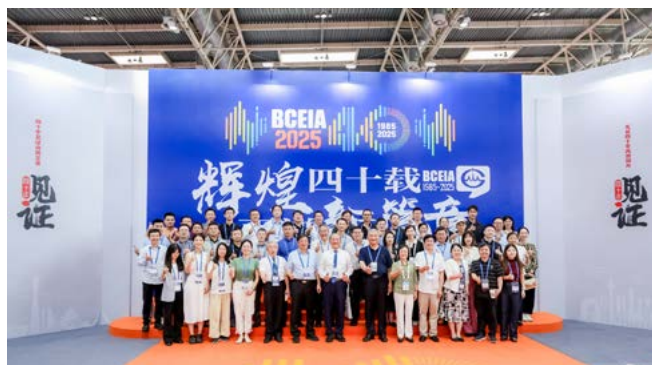
BCEIA 2025
全球分析科学与生化技术博览会
World Exposition on Analytical Science and Biochemical Technology



"WITNESS" – BCEIA 40TH

Anniversary Commemorative Exhibition

BCEIA has witnessed China's analytical testing technology evolve from "introduction and absorption" to "independent innovation." It has also been deeply involved in and promoted the formation and maturity of the industry. The BCEIA 40th Anniversary Commemorative Exhibition vividly unfolded the historical journey of BCEIA's synchronous development with China's analytical testing field.



数“读”盛会

Audience Statistics



BCEIA2025 Exhibitors



95%

Satisfaction
Will continue to Participate

39703

PROFESSIONAL VISITORS

53400^{M²}

EXHIBITION AREA

10000

PRODUCTS

742

EXHIBITORS

4500

SCHOLARS

1000

ACADEMIC TALKS

1200

ACADEMIC PAPERS

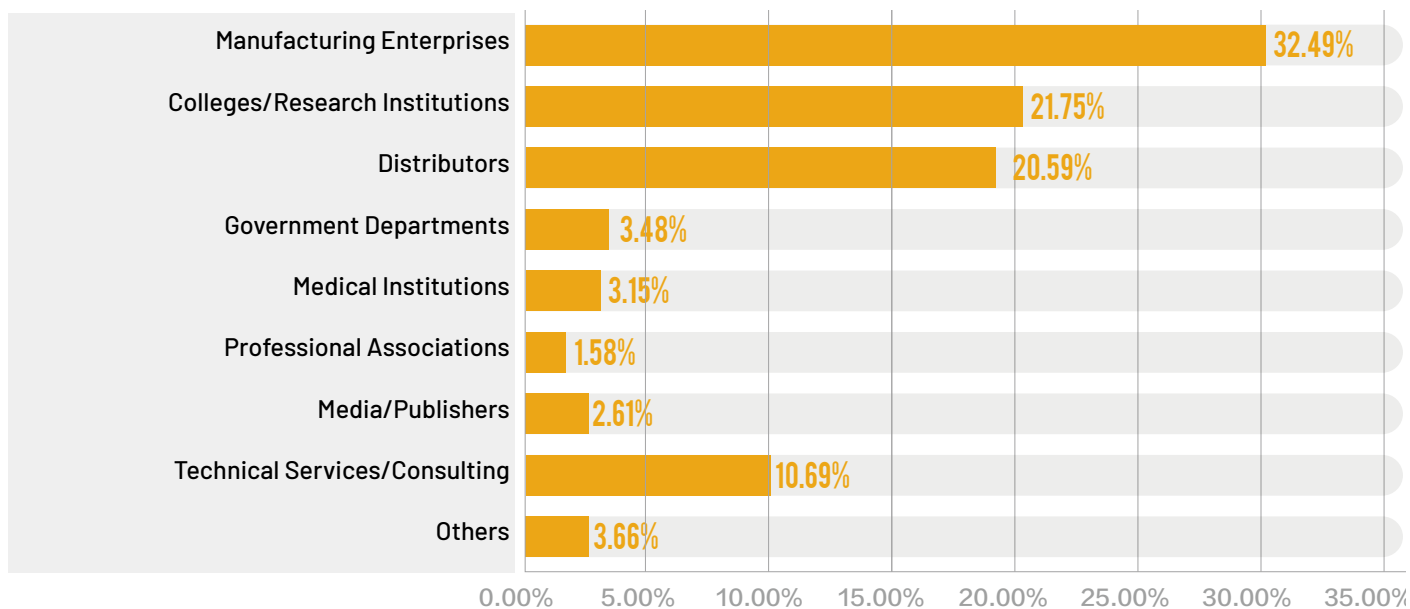
18

COUNTRIES AND REGIONS



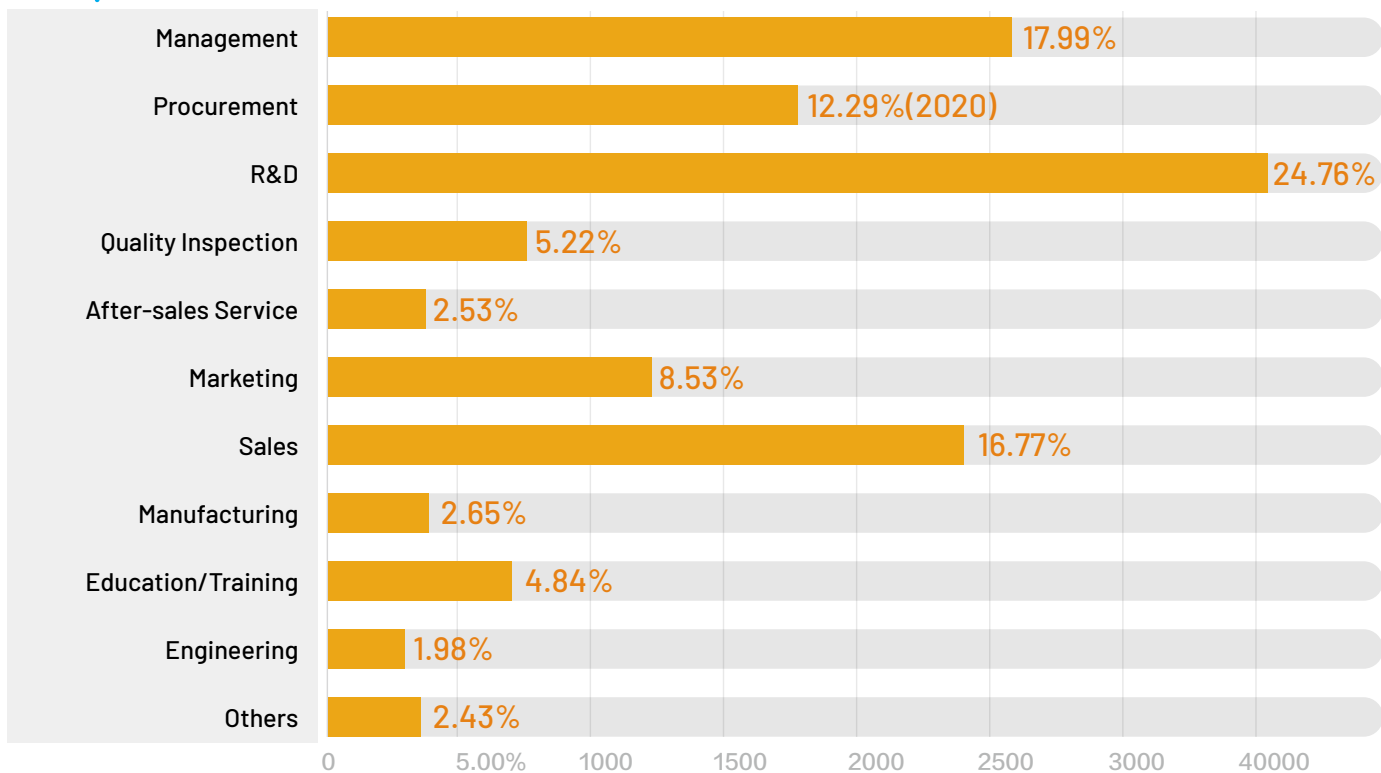
Categories of Visitors' Affiliations

40 YEARS PROSPERITY A NEW ERA OF ANALYTICAL SCIENCE



Statistics on Visitors' Occupation

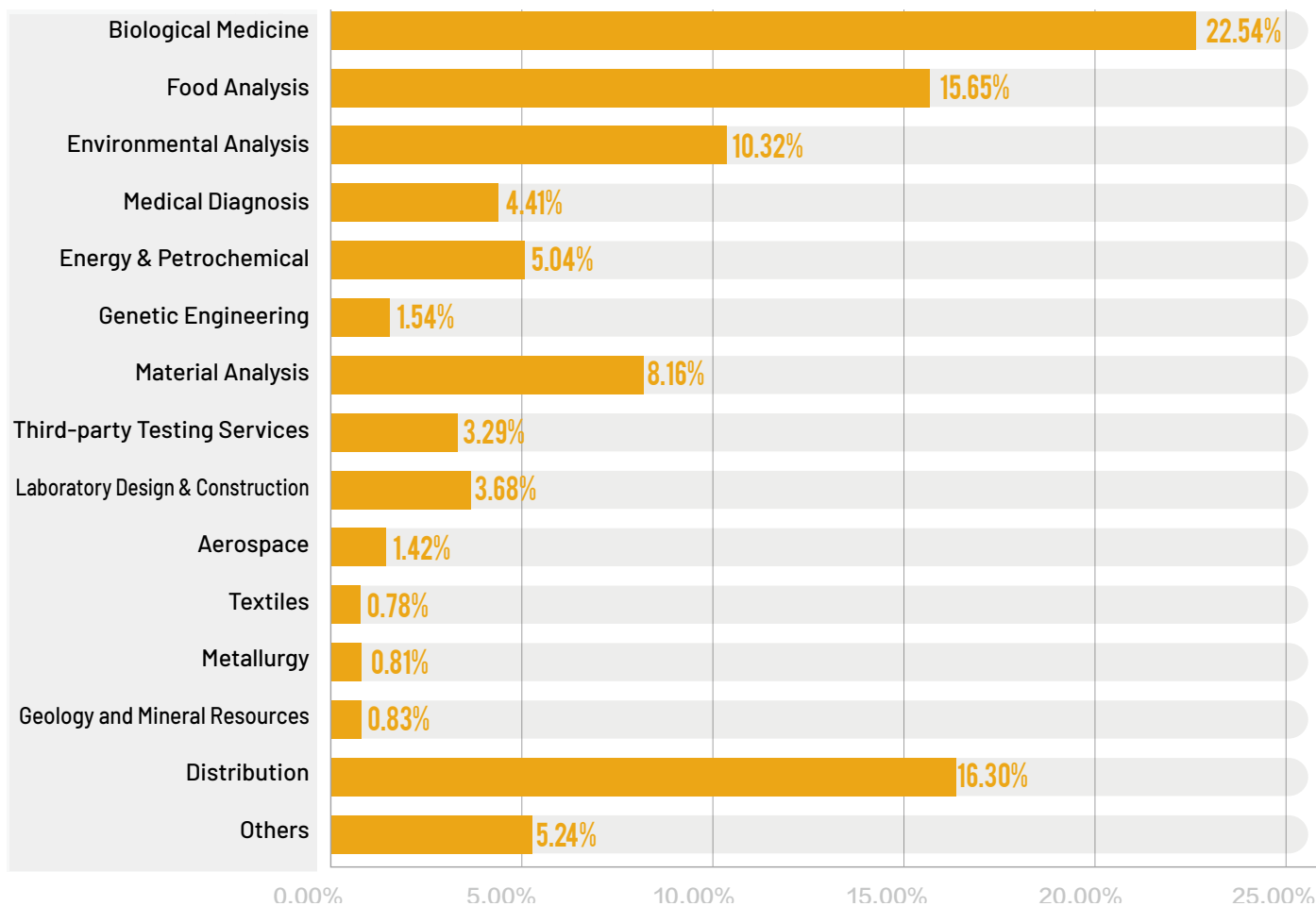
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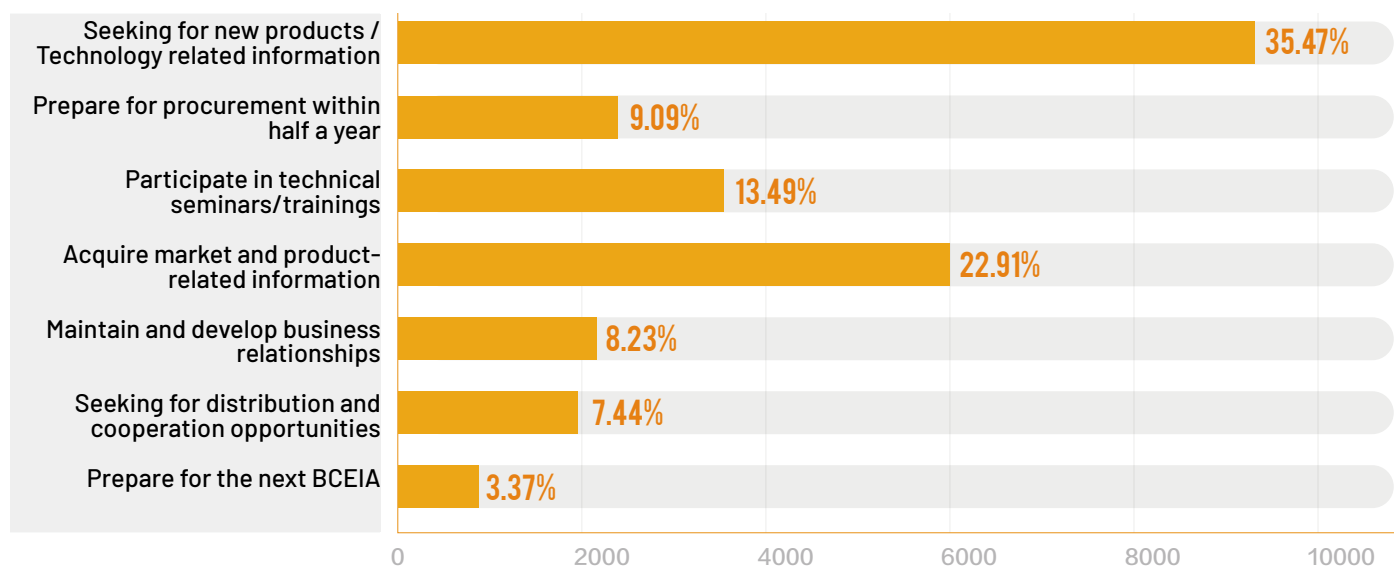
Visitors by Industry/Field

40 YEARS PROSPERITY A NEW ERA OF ANALYTICAL SCIENCE



Purpose of Visit

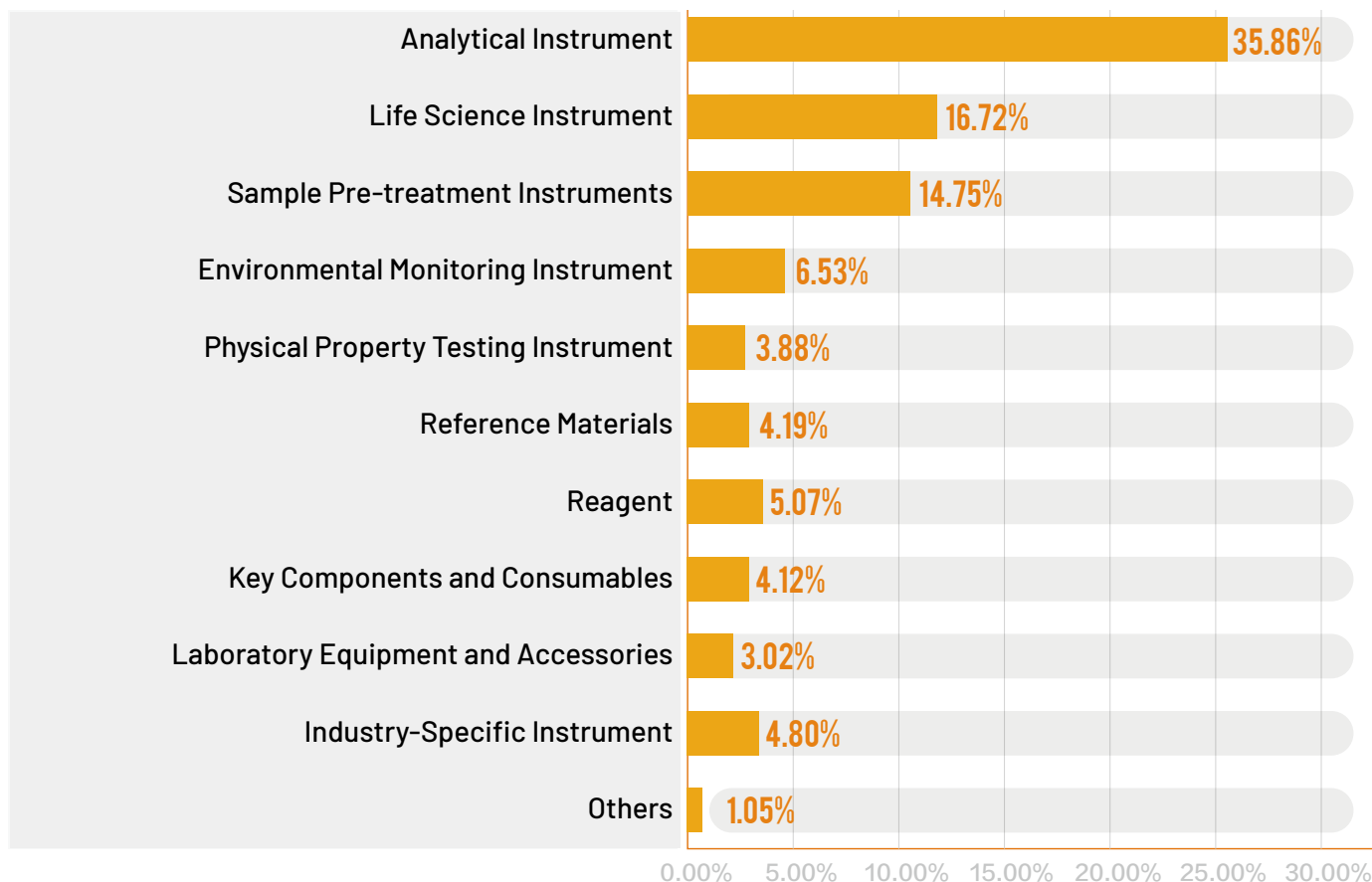
40 YEARS PROSPERITY A NEW ERA OF ANALYTICAL SCIENCE



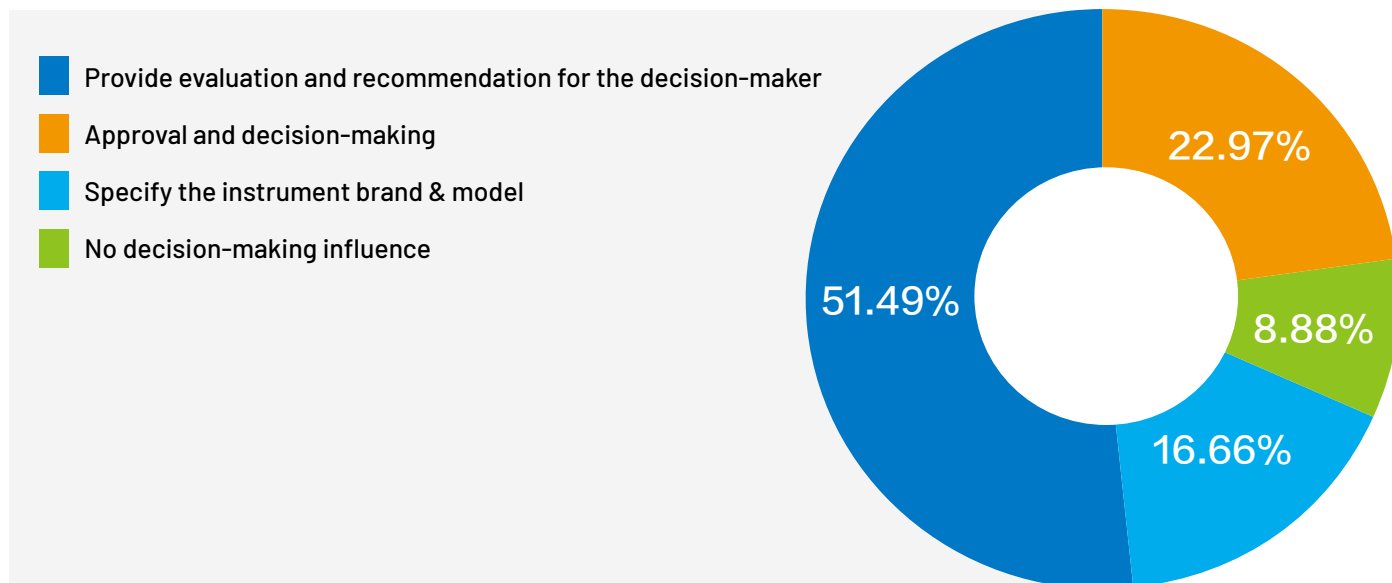


Products and Services Sought by Visitors

40 YEARS PROSPERITY A NEW ERA OF ANALYTICAL SCIENCE



Participants' influence in decision-making when purchasing equipment





See you in Beijing

September 21-23, 2027

**Capital International Exhibition
& Convention Center**



For booth reservation and the latest updates,
follow BCEIA's official WeChat account.

Exhibition Inquiries:

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Academic Conference Inquiries:

Tel: +86-10-68537066 | Email: conference@bceia.cn