



# CIESC

## ANNUAL REPORT 2024





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The Chemical Industry and Engineering Society of China (CIESC)

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Serve the public and government for knowledge, science, technology and innovation.



CIESC Website



Member Registration  
(China Mainland)



CIESC Official  
Subscription (Wechat)

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Add: 7F, B Unit, Huaxin Mansion, No.33 Anding Rd., Chaoyang District, Beijing, 100029, P.R.China

Tel: +86-10-6444 1885

Fax: +86-10-64441885

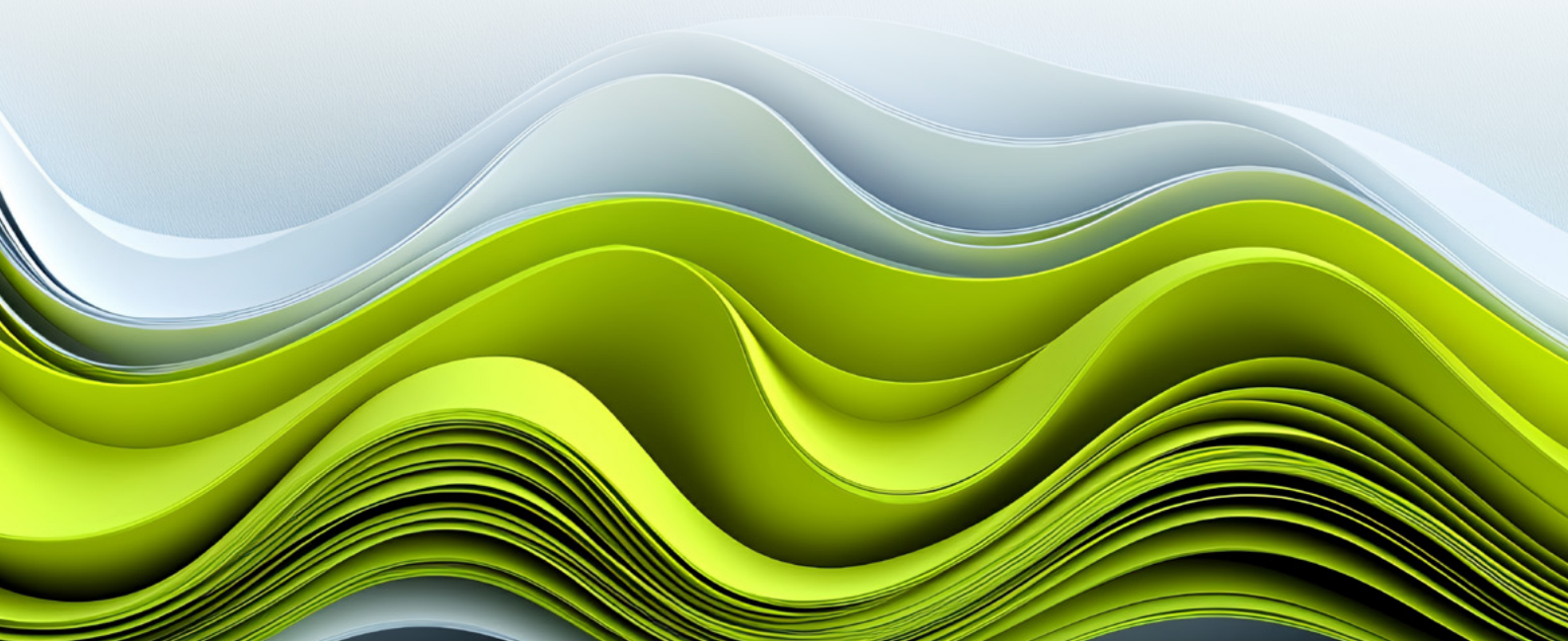
Email: [ciesc@ciesc.cn](mailto:ciesc@ciesc.cn)

Web: [www.ciesc.cn](http://www.ciesc.cn)



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## President's Address



Dear members of CIESC and friends,

Time and tide wait for no one, yet the new year is always full of new hopes and prosperity. As we bid farewell to the old year and usher in the new, I would like to, on behalf of the Council of the Chemical Industry and Engineering Society of China (CIESC), extend sincere greetings and best wishes to our colleagues in the chemical industry and members of CIESC, as well as to leaders and friends who have all along supported the development of CIESC.

During the past year of 2024, upholding pioneering and innovative spirit, we took on our missions with steadfast steps forward. CIESC united and led all colleagues in the chemical industry to serve in full passion and innovation with the whole nation in heart. We enabled industrial transformation and upgrading through science and technology innovation and drafted a new chapter of innovation and development of chemical industry in the new era, devoting wisdom and strength to high-level self-reliance and self-strengthening in science and technology.

During the past year, we adhered to the principle of serving the overall plan of the country, effectively playing the role as a science and technology hub as well as bridge among enterprises, universities and research institutes. We strengthened overall coordination and innovation, and analyzed the development trends and key issues in frontier fields such as carbon neutrality, green hydrogen energy, electronic chemicals and new flexible materials, taking a proactive role in serving national strategic decision-making and industrial high-quality development demand. Focusing on science and technology frontiers, we established exchange platforms in new fields such as energy materials and intelligent

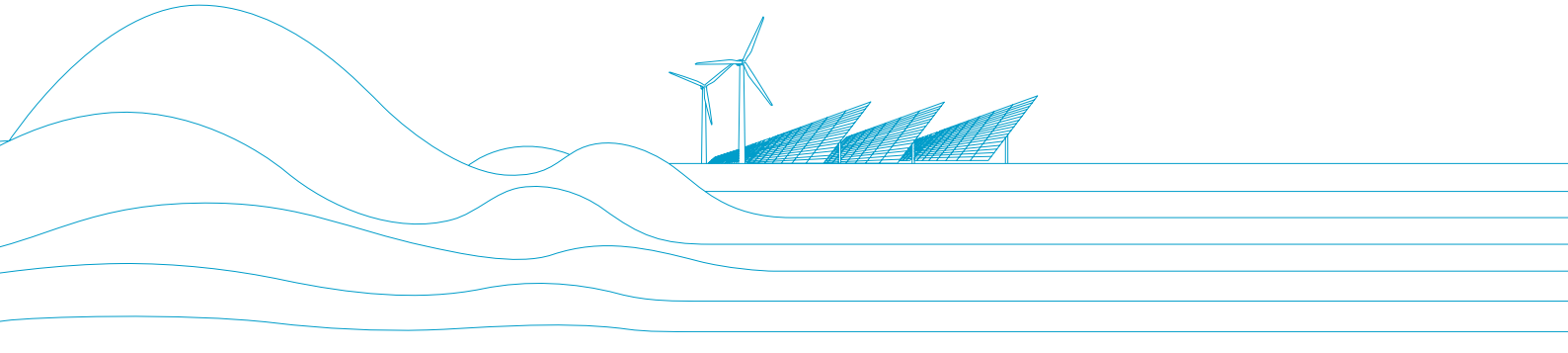
manufacturing, and promoted breakthroughs and applications in key innovation fields. We also vigorously took actions for "Science and Technology Innovation China", organized high-level think tank experts for in-depth surveys in Anqing, Liaoyang, Deyang, Jiande, Chuzhou, Ordos etc., guiding science, technology and innovation to serve the development of local chemical industries in a tailored manner.

During the past year, we strengthened brand building and achieved fruitful results in academic exchanges and science popularization. We successfully organized CIESC Science and Technology Innovation Conference as well as a series of high-level academic workshops, gradually forming a series of high-end and standardized activities with CIESC brand. Scientific evaluation system was formulated and "Classification of High Quality Science and Technology Journals in Chemical Industry" was successfully implemented with continued attractiveness of high-level academic achievements to domestic journals. We played a leading role in the first national collection of science popularization works with over 1300 works booming in the science popularization garden. We promoted science popularization to the world by publicizing Exploring Oil: Black Treasure Hidden Underground, which was selected as the "Good Science Popularization Book in Beijing of 2024" and was on the "Top 100 List" of 2024 Children's Book of the Year. Its Kazakh version has become goodwill envoy of the "Belt and Road".

During the past year, we adhered to prospering CIESC by talents with enhanced cohesion and attractiveness of high-level talents. The CIESC think tank enriched its functions combining experts, achievements and demands in the chemical industry. Growth



# President's Address



channels for young, female and international talents were further expanded. The "CIESC Fellows", "Hou Debang Chemical Science and Technology Award", and "CIESC Science and Technology Award" has found more China's high-level talents. An international expert pool and a communication mechanism of Chinese and foreign experts were preliminarily established, effectively promoting the development of high-caliber and international talents. The international talent evaluation system was taken shape, and new breakthroughs were made in international mutual recognition of chemical engineer qualifications in the UK and Kazakhstan.

During the last year, with a global vision, we expanded international science and technology exchange and cooperation channels in a continuous manner. Efforts were given to deepen the platform construction of the rotating presidency of APCCChE, CAST UN Consultative Committee on Clean Energy for Carbon Peaking and Neutrality and Technology & Innovation Cooperation Panel for Carbon Capture Utilization and Storage for energy and chemical industry's development. A series of international exchange events such as the China-Germany Forum on New Energy, New Materials and Bio-intelligent Manufacturing, and the China-France Academicians Forum were successfully held, striving to promote technological innovation, exchanges and cooperation as well as win-win development in the global chemical industry.

We will ride the tide and seize the opportunities to open up new chapters. With 2025 as the final year of the 14th Five Year Plan, CIESC will feature openness, connectivity and platform-building. We will make bigger progress in serving our colleagues, continuous efforts in serving innovation-driven development, better results in improving scientific literacy for our people, and more breakthroughs

in supporting scientific decision-making of the government. We will make new and greater contributions to promoting high-quality science and technology development of the chemical industry, enabling its transformation and upgrading, and the cultivation of new quality productivity.

Though the journey ahead may be long and arduous, with sustained actions, we will eventually reach our destination and embrace a brighter future. I wish all the best to our members and friends, greater glories and new achievements to the science and technology development of China's chemical industry. And I wish peace and prosperity to our great nation and people.

Dai Houliang  
President of the Council of CIESC  
Academician of the Chinese  
Academy of Engineering



## Taking on the Mission of Innovation to Serve National Priorities Contributing to the Cultivation and Development of New Productive Forces in Chemical Engineering— Summary of the Work of the Chemical Industry and Engineering Society of China (CIESC) in 2024

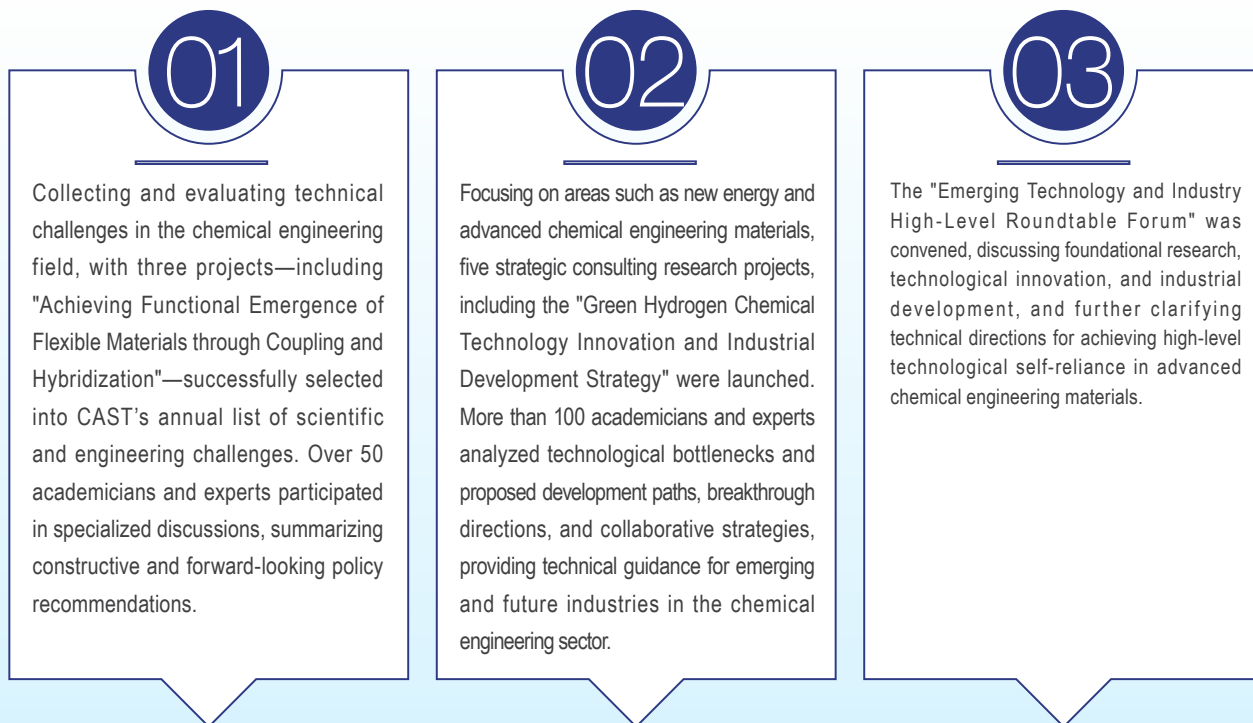
In 2024, under the guidance of the Ministry of Civil Affairs and the China Association for Science and Technology (CAST), and with the strong support of council members, institutional members, and chemical science and technology professionals nationwide, the CIESC significantly enhanced its cohesion and influence. The society's role as a "bridge and link" was fully realized, yielding remarkable achievements across various initiatives.



### 1. Consolidating and Integrating Resources to Effectively Serve the Development of the Chemical Industry

The establishment of CIESC's S&T Service Department and the enhancement of mechanisms for strategic decision-making, regional coordination, enterprise services have facilitated the deep integration of innovation chains, industrial chains, funding chains, and talent chains in the chemical engineering field, thereby empowering the cultivation and growth of new productive forces.

#### (1) Strengthening Support for Major National Strategies



#### (2) Achieving Significant Results in Promoting the Development of Local Chemical Engineering Industries

Leveraging the advantages of coordination between the society and provincial and municipal science and technology associations, efforts were made to inject new momentum into the high-quality development of local chemical engineering industries and the broader economy.

Two specialized technical service teams focusing on high-end electronic chemicals and green phosphorus chemicals were formed under the "Sci-Tech Innovation China" initiative. Fieldwork was conducted in key chemical industry regions such as Guangdong and Guizhou, providing guidance on industrial development planning and technological innovation. Common technical issues, such as clean and low-carbon production in the yellow phosphorus industry and electronic-grade fluoropolyimides, were addressed. The society's "Service Stations"





initiative was refined to facilitate the integration and convergence of industrial technologies. Three new service stations were established in Hangzhou, Ordos, and Anqing, along with two professional committee service stations. Regional innovation activities, such as the Liaoyang Chemical Engineering Industry Conference and Jiande Tech Think Tank Expert Service Event, led to eight collaborative scientific projects, including the development of ultra-high molecular weight polyethylene catalysts.

### (3) Supporting High-Quality Development of Chemical Enterprises

Actively carried out technology consulting, results evaluation, and group standards development services to assist chemical engineering enterprises in transforming technological innovations into practical applications. For example, consulting projects such as "Policy Research on Green and Low-Carbon Development in the Petrochemical Industry" assessed future technology trends and industrial development, providing recommendations on innovation directions and technical pathways for enterprises. Group standard development advanced, with 19 standards published and 19 approved for initiation. A systematic approach to technology evaluation was implemented, with work guidelines established. This year, 38 technology evaluation projects were completed, and related promotion efforts were integrated into regional and corporate services.



## 2. Upholding High Standards of Internationalization and Supporting the Growth of Chemical Engineering Talent

Adhering to the principle of "innovation as the primary driver and talent as the primary resource," the society relied on the construction of a scientific and technological think tank and ensured institutional safeguards to broaden channels for talent development comprehensively.

### (1) Enhancing the Functionality of the Chemical Science and Technology Think Tank

The think tank's scale expanded, and expert specialization was refined. A unique chemical engineering industry think tank system, integrating an expert database, an achievement database, and a demand database, was initially established. This digital system enables the intelligent identification of relevant experts, achievements, and needs, evolving into a technology service platform connecting chemical science and industry. The expert database currently includes more than 1,800 high-level experts, with nearly 1,000 specialists in seven sub-fields such as industrial water treatment, coatings, ionic liquids, and petrochemical archives. The service level and efficiency continue to improve.

### (2) Expanding Talent Services and Capacities

1.Focused on fostering young scientific and technological talent. The "Youth Talent Support Program" achieved 14 slots under the CAST initiative, matched three young scholars to university mentors, and invited four to participate in the "Sci-Tech Innovation China" service projects, opening opportunities for young researchers to understand frontline demands and seek applications for their work.

2.Actively built platforms for cultivating future talent, organizing numerous competitions for university students in the chemical field. The National Chemical Engineering Design Competition now covers 450 universities and attracts nearly 19,000 participants.

3.Continuously improved the rewards system. Key awards, such as the "Hou Debang Chemical Engineering S&T Award," "CIESC Fellow," and "CIESC Scientific and Technological Awards," have gained widespread attention from state-owned enterprises and innovative private firms. Outstanding talent from the chemical field was also recommended for national honors, including the "China Youth Science and Technology Award."



## 3. Strengthening Brand Building and Achieving Remarkable Results in Academic Exchange and Science Popularization

By adopting an international perspective and adhering to world-class standards, the society innovated methods and platforms to continually enhance the quality of academic exchanges and science popularization efforts.

### (1) Standardizing the Organization of Academic Conferences

Formulated and implemented the "CIESC Academic Conference Management Measures" to enhance the systematic, high-quality, and



standardized development of chemical engineering technology exchange platforms. Focused on cutting-edge scientific topics, fully leveraging the role of the Academic Advisory Committee, and successfully launched new platforms for industry-academia-research collaboration, such as the inaugural Academic Annual Conference of the Chemical Carbon Neutrality Technology Committee and the first Petroleum and Petrochemical Engineering Innovation and Development Conference. Currently, CIESC has established an academic exchange ecosystem, with the Annual Meeting and the S&T Innovation Conference as the core, supported by flagship academic exchange events and specialized high-quality academic seminars. This has led to the formation of a strong academic brand portfolio, with 14 branded academic conferences selected for inclusion in the "Important Academic Conference Guide" by the China Association for Science and Technology (CAST).

### (2) Improving Journal Management Standards

Increased policy and funding support for its publications, such as "CIESC Journal", "Chemical Industry and Engineering Progress", and "Chinese Journal of Chemical Engineering". These journals collectively received over 20 awards for outstanding achievements and national funding. Carried out the classification and publication of tiered directories for journals in the chemical engineering field, establishing descriptive profiles for journals at different levels. Developed the first edition of the "High-Quality Scientific Journal Classification Directory in the Chemical Engineering Field", combining qualitative and quantitative evaluation to select domestic candidate journals. This initiative aims to guide and encourage researchers to publish high-quality papers in domestic scientific journals. The evaluation methodology and results have been highly recognized by relevant management departments, journal publishers, and scientific researchers.

### (3) Advancing the Construction of International Exchange Platforms

Organized bilateral forums with renowned academicians from Germany and France, discussing academic brand conferences, talent exchanges, frontier technology collaborations, and joint scientific achievements. Actively engaged in UN platform affairs, co-hosting the thematic side event "Smart Responses to Climate Change" at the 29th UN Climate Change Conference (COP29), showcasing the contributions of Chinese enterprises to climate change mitigation and global sustainable development. Additionally, developed a special report titled "Advancing Sustainable Fuel Development to Support Carbon Reduction in the Transportation Sector", providing policy recommendations from a global perspective and promoting international exchanges on cutting-edge scientific and technological advancements.

### (4) Significant Progress Made in Development of National Level Science Popularization Center

1.Organized the first "National Petroleum and Chemical Science Popularization Works Competition" and a series of thematic events, collecting over 1,300 submissions. Launched the "National Science Popularization Day" opening ceremony and main event, organizing member units to donate over 400,000 RMB worth of high-quality science popularization books to the revolutionary old area of Huanggang. Also organized four sessions of the "Hou Debang Public Welfare Lecture Series", as well as the "2024 First Chemical Engineering Lecture" by Academician Zhu Shiping among other activities. Various science popularization education bases and branches actively carried out more than 20 science outreach activities, including "Saluting National Craftsmanship and Learning from Exemplary Role Models".

2.Promoted science popularization content to a global audience. The book "Exploring Petroleum: The Black Treasure Beneath the Earth" was selected for the 2024 Capital Science Popularization Best Books list and the 2024 Top 100 Laureate Children's Books. The Kazakh edition received high praise from the Chinese Ambassador to Kazakhstan and Kazakh government officials at its launch ceremony, organized by the Publicity Department of the CPC Central Committee.

3.The foundation for engineering ethics has been continuously strengthened. "CIESC Code of Engineering Ethics has been compiled, and an English course on engineering ethics has been recorded and made available as a shared resource for ASEAN and other countries. Additionally, CIESC led the organization of the Third Symposium on "Engineering Ethics" Curriculum Development and Faculty Training for Chemical Engineering Programs in Higher Education Institutions, promoting research, education, and the practical application of engineering culture and ethics.





## 4. Strengthening Internal Development to Enhance Cohesion and Service Capabilities

### (1) Governance System Modernization

Focused on advancing the society's institutional system, member development, management, and services, continuously strengthening the society's cohesion and overall effectiveness. The modernization of the governance system and governance capabilities has been accelerated. Seven internal control documents, including the "Department Responsibilities and Personnel Structure of the Secretariat" and "Secretariat Department and Position Responsibilities", have been formulated, leading to a continuous improvement in management standardization. The management structure of the Secretariat has been consolidated, optimizing the formation of three core platforms: Academic Development, Scientific and Technological Services, and Organizational Support Services. This has further streamlined the Secretariat's management functions. Four Executive Council meetings were held to review matters such as the renaming of work committees and adjustments to vice-chairperson candidates, ensuring efficient and compliant decision-making. Six major digital and intelligent service platforms have been established, including the Member System, Reward System, Expert Database System, Branch System, Group Standards System, and Member Resource Service Platform, along with internal office systems. These initiatives have significantly empowered management through digital and intelligent solutions.

### (2) Significant Improvements in Service Quality, Cohesion, and Influence

Efforts to enhance and refine the society's work have continued, deepening engagement with institutional members through strengthened communication and service initiatives. New institutional members have been actively promoted to expand their industry visibility and influence, facilitating information sharing and collaboration among relevant enterprises. In collaboration with the China National Chemical Information Center (CNCIC), a technology resource information database has been established. Joint studies with China Petrochemical Press have resulted in the publication of "Prospects and Strategies for the Lubricant Industry Amid the Rapid Development of New Energy Vehicles" and "Transformation and Technological Strategies of the Refining Industry in Europe and the United States". New features, such as technology novelty search services and job postings, have been introduced in the "Membership Bulletin" to enhance service offerings. This year, more than 10,000 new individual members have joined, and the number of "specialized, refined, and innovative" enterprises among institutional members has continued to grow.

At present, the world is undergoing profound changes unseen in a century, and technological innovation is entering an unprecedented period of rapid advancement. Let us unite our efforts, forge ahead with determination, and diligently advance all aspects of the society's work. Together, we will strive to promote the high-quality development of China's chemical engineering industry, making new and greater contributions to the nation's modernization, the building of a strong country, and the great rejuvenation of the Chinese nation!



# CIESC Honors in 2024

Award Honorary Title	Awarding Unit
Outstanding units in science popularization work of national societies in 2024	China Association for Science and Technology
Outstanding Manuscripts of the 2024 Volume of "Yearbook of China Association for Science and Technology"	China Association for Science and Technology
Outstanding Units of National Societies for Submitting E-Government Information to the China Association for Science and Technology Website (6/16)	China Association for Science and Technology
Chinese Journal of Chemical Engineering: Selected for the Second Phase (2024–2028) of the Excellence Program for Chinese Science and Technology Journals as a Leading Chinese Journal	China Association for Science and Technology
Chemical Industry and Engineering Progress: Selected for the Second Phase (2024–2028) of the Excellence Program for Chinese Science and Technology Journals as a Leading Chinese Journal; Selected for the Capital Science and Technology Journals Excellence Action Plan as a Key Chinese Journal (Three-Year Term)	China Association for Science and Technology
Chinese Journal of Chemical Engineering (English Edition): Selected for the Second Phase (2024–2028) of the Excellence Program for Chinese Science and Technology Journals as an English Tier Journal	China Association for Science and Technology



# CIESC Events in 2024

## 1.Academic Exchange and International Cooperation

### 1.1 Academic exchange and leadership



2024 CIESC Technological Innovation Conference, November 2–4, Shaanxi



The 9th National Conference on Energy Storage Science and Technology, March 23–24, Liyang, Jiangsu;



2024 Spring National Rubber and Plastics Green Manufacturing Industry-Academia Integration Forum, March 29–31, Changzhou, Jiangsu;

The 2nd Green Engineering Education and Future Engineers Forum, April 20–21, Chengdu, Sichuan;







2024 (8th) International Olefins and Polyolefins Conference, May 23–24, Ningbo, Zhejiang;



The 1st Annual Academic Conference of the CIESC Chemical Carbon Neutrality Technology Division, July 31 – August 1, Zhenjiang, Jiangsu;



2024 CIESC 2nd Annual Conference on Microchemical Technology, June 29–30, Changzhou, Jiangsu;



2024 CIESC "Yingxing" Youth Forum, August 2–4, Dalian, Liaoning;



The 20th Annual Academic Conference of the CIESC Information Technology and Applications Division, August 16–17, Chengdu, Sichuan;



The 4th China Sulfur-Phosphorus-Titanium Industry High-End Forum 2024, August 22–23, Guiyang, Guizhou;



2024 CIESC Conference on Energy, Materials, and Chemical Engineering, August 23–25, Changzhou, Jiangsu;



2024 CIESC Annual Conference of the Chemical Machinery Division, August 24–27, Qingdao, Shandong;



The 1st Petroleum and Petrochemical Engineering Innovation and Development Conference, September 12–13, Beijing;

The "1st Petroleum and Petrochemical Engineering Innovation and Development Conference," jointly hosted by CIESC, China Petroleum Engineering Co., Ltd., China Petroleum and Chemical Corporation Engineering Department, Sinopec Refining & Chemical Engineering Co., Ltd., Offshore Oil Engineering Co., Ltd., and the Chemical Business Unit of State Energy Investment Group Co., Ltd., was held in Beijing on September 12-13, 2024. With the theme "Innovation, Digital Intelligence, and Low Carbon: Cultivating New Drivers and Advantages for High-Quality Development of Petroleum and Petrochemical Engineering," the conference aimed to stimulate new momentum for the innovative development of petroleum and petrochemical engineering, promoting the transformation of the petroleum and petrochemical industry toward high-end, green, safe, and efficient development, and supporting the achievement of the "dual-carbon" goals. Nearly 300 representatives attended, discussing and exchanging the latest research progress and technological achievements in the field of petroleum and petrochemical engineering innovation.



The 5th Smart Refining Technology Conference & The 2nd Petrochemical Intelligent Warehousing and Material Handling Technology Conference 2024, September 19–20, Nanjing, Jiangsu;



The 4th National Conference on Chemical Process Intensification, September 20–22, Shanghai;

The 2nd China High-Purity Chemicals Development Conference of CIESC, October 26–27, Quzhou, Zhejiang;







CIESC Rubber and Plastics Green Manufacturing Committee Plenary Meeting & 2024 Autumn Forum on New Polymer Chemical Materials, November 1, Xi'an, Shaanxi;



2024 CIESC Intelligent Manufacturing Technology Exchange Conference, December 13–15, Ningbo, Zhejiang;



2024 Sino-German Forum on New Energy, New Materials, and Bio-Manufacturing, November 20–21, Hangzhou, Zhejiang;



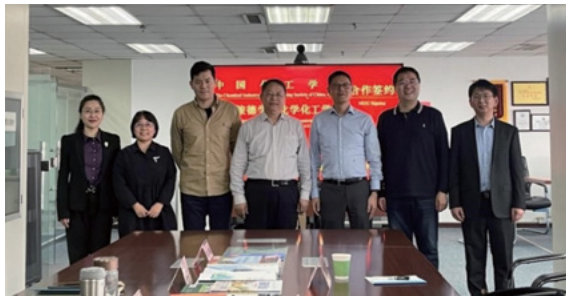
The 5th National Conference on Engineering Thermochemistry, November 30 – December 1, Nanjing, Jiangsu;

## 1.2 International exchange and cooperation



Vice President and Secretary-General Fang Xiangchen Assumes the Presidency of the Asian Pacific Confederation of Chemical Engineering, April 4;





CIESC and the Gesellschaft Chinesischer Chemiker und Chemieingenieure in der Bundesrepublik Deutschland e.V. (GCCCD) Sign a Memorandum of Understanding (MoU) on Cooperation, April 9, Beijing;



Bilateral Exchange Meeting Between CIESC and the Society of Chemical Engineers, Japan (SCEJ) Successfully Held, April 22, Tokyo, Japan;



Vice President and Secretary-General Fang Xiangchen Invited to Attend the World Chemical Engineering Council (WCEC) Digital Conference and Deliver a Keynote Speech at the Plenary Session, May 24;



China-Kazakhstan Exchange on Engineering Education and Engineering Capacity Building, June 24, Shihezi, Xinjiang;

Visit to the Kazakhstan Central Asian Association for Accreditation of Educational, July 15–18, Almaty, Kazakhstan;



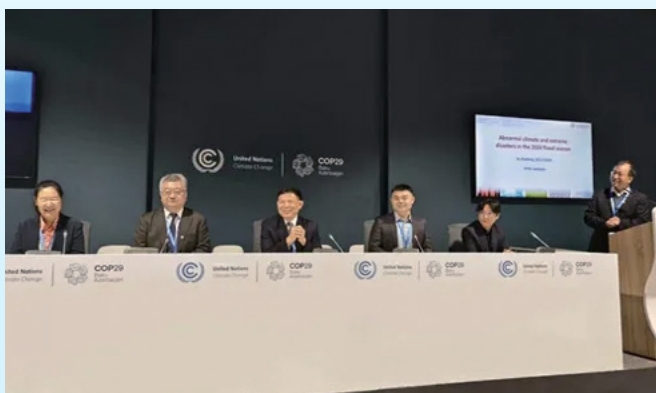




Visit of World Chemical Engineering Council (WCEC) by Secretary-General Willi Meier, August 23, Beijing;



2024 Asian Pacific Confederation of Chemical Engineering Board Meeting Held in Bangkok, September 11, Bangkok, Thailand;



Focus on COP29 – China Association for Science and Technology (CAST) UN Consultative Committee on Clean Energy and "Dual Carbon" Strategy Discusses Climate Change Response, November 18, Baku, Azerbaijan;



World Chemical Engineering Council (WCEC) Executive Committee Meeting Held in Xi'an, November 1, Xi'an, Shaanxi;



## 2.Popularization of Science and Cultural Construction

### Series of Science Popularization Activities by CIESC Branches and Science Education Bases



The 1st National Petroleum and Chemical Science Popularization Works Collection Event – Outstanding Works Release Conference, May 25, Beijing;



Hydrocarbon Resource Evaluation, Processing, and Utilization Committee Hosts Series of Activities on Caring for the Next Generation;



CIESC Science Popularization Education Base – National Key Laboratory of Green Pesticide (Central China Normal University) Series of Science Popularization Activities;

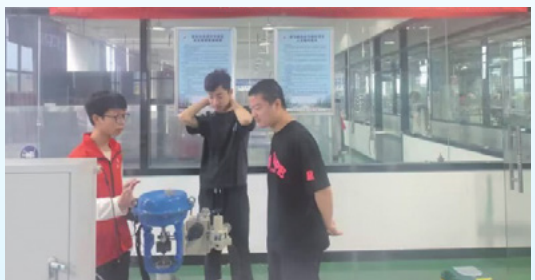




CIESC Science Popularization Education Base – Hunan Chemical Vocational Technology College Hosts "Saluting National Craftsmen, Learning from Role Models" Vocational Education Science Popularization Event;



CIESC Science Popularization Education Base – Sinopec Shanghai Research Institute of Petrochemical Technology Green Chemical Science Popularization Base Launches "Science Popularization Public Welfare Tour" Volunteer Service Initiative and Carries Out Hope Project Scholarship Donation Activities in Qimen County, Anhui;

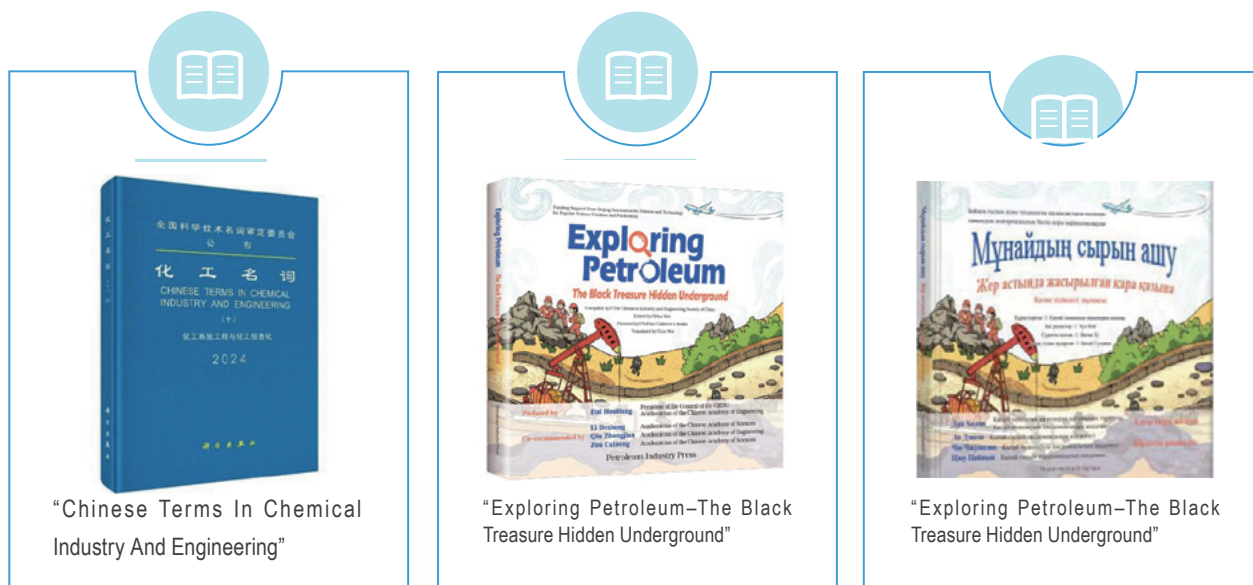


CIESC Science Popularization Education Base – Hunan Chemical Vocational Technology College Hosts "New Intelligent Chemical Technologies Leading a Better Life" Science Popularization Event;



Hou Debang's Lecture Hall





Popular science works in 2024



On October 25, 2024, the Beijing-Tianjin-Hebei Outstanding Science Popularization Books Release Event was held at the National Science and Technology Communication Center, where “Exploring Petroleum” was prominently displayed as an award-winning book.

## Cultural Construction



2024 Seminar on “Engineering Ethics” Curriculum Development for Chemical Engineering Majors in Higher Education & Faculty Training Program, July 8–10, Qingdao, Shandong;



Unveiling Ceremony of Mr. Wu Yunchu's Bronze Statue, March 20, Shanghai;





"Pursuing the Spirit of Science, Illuminating the Path of Growth" – Caring for the Next Generation Thematic Event, May 25, Beijing;

### 3. Think Tank Construction and Technology Consulting

#### 3.1. Study and judge technological trends and actively provide suggestions

CIESC Recommends Three Major Issues for Inclusion in the 2024 Major Scientific and Engineering Technical Problems of the China Association for Science and Technology (CAST);

On July 2, at the main forum of the 26th China Association for Science and Technology (CAST) Annual Conference, CAST officially announced the 2024 Major Scientific Issues, Engineering Technical Challenges, and Industry Technology Problems. The issues recommended by CIESC include: "Achieving Emergent Functions of Flexible Materials through Coupling and Hybridization," which was selected as one of the Top 10 Scientific and Technological Issues; and "Interdisciplinary Support for Scaling Up Multiphase Reactors from Laboratory to Industrial Scale" and "Achieving Ecological Carbon Balance by Efficient and Mild Activation Conversion and Large-Scale Utilization of Carbon Dioxide," both of which were selected as Top 10 Engineering Technical Challenges.

Organized the "Emerging Technologies Industry High-End Roundtable Forum"



Focused on the major national strategic needs and common industrial demands, organized and conducted strategic research.

We focused on key areas such as new energy, electronic chemicals, and new chemical materials, organized and planned five strategic consulting topics including "Research on Green Hydrogen Chemical Technology Innovation and Industry Development Strategies" and "Technological Innovation and Industry Development Status of Rare Gas Industry in China".



These topics were accepted in the China Association for Science and Technology (CAST) report on recommendations from science and technology workers. The efforts mobilized and leveraged the strengths of the society's branches and strategic scientist teams in the chemical industry. Over a hundred academicians and experts conducted in-depth research to identify gaps, bottlenecks, and constraints in technological development, proposing development paths, key research directions, and collaborative strategies. This provided clear direction for the high-quality development of the chemical industry and technical guidance for supporting the growth of emerging and future industries in China.

Centered on the needs of enterprises, conducted high-quality enterprise technical consulting services.

We delved into the development directions of enterprises such as CNPC and Sinopec, and initiated scientific consulting projects including "Research on Green and Low-Carbon Development Policies for Chemical and Petrochemical Industries", "Survey on the Development Path of Future Oil-Based Benzene Series Industry Chain" and "Research on the Development of Carbon Fiber Industry in China Petroleum". Experts were organized to conduct market and technical research, forecast future technological and industrial development, and, in line with the enterprises' strengths and characteristics, devised plans and strategies for innovative development. Key technologies were identified, and recommendations for technical paths, collaborative teams, and other aspects were proposed, providing think tank support for the enterprises' future development.

### 3.2. Focus on the construction of "Science and Technology Innovation China" and promote the deep integration of science, technology and economy



CIESC Hangzhou Service Station Launch Meeting & Think Tank Expert Service Activities, January 25–27, Jiande, Hangzhou;



CIESC High-Level Think Tank Experts Conduct Investigation and Research in Anqing, March 27–29, Anqing, Anhui;





Academician's Visit to Liaoning (Liaoyang Station) and the 2024 Liaoyang Chemical Industry Conference, July 23, Liaoyang, Liaoning;



CIESC Anqing Service Station Officially Unveiled, August 29, Anqing, Anhui;



CIESC Experts Conduct Investigation and Research in Mianzhu, Deyang, September 10–11, Mianzhu, Deyang, Sichuan;



CIESC organized experts to visit three regions to participate in the "Science and Innovation China" local event;

In November, under the organization of the China Association for Science and Technology (CAST), CIESC organized experts to participate in three expert events of the "Science and Innovation China" initiative: "Science and Innovation China" Shaanxi, Ningbo, and Ningxia tours. During these events, experts had face-to-face exchanges and in-depth technical discussions with local enterprises on issues and challenges related to the development of industries such as hydrogen energy, new chemical materials, and new energy. These efforts promoted industry-academia-research cooperation, addressed key industrial challenges, and contributed to the high-quality development of regional industries.



## 4. Science and Technology Rewards and Talent Cultivation

### 4.1. Technology rewards



2024 CIESC Fellow Awarding Ceremony;



The 16th "Hou Debang Chemical Science and Technology Award" was grandly awarded;



2024 CIESC Science and Technology Award was grandly awarded;



#### 4.2. Talent training

Finals of the 2nd "Dual Carbon" Goal Engineering Thermochemistry Technology Innovation and Design Competition, March 24, Shenyang, Liaoning;



The 8th China University Chem-E-Car Competition®, August 6, Changsha, Hunan;





The 7th National "Internet+ Chemical Reaction Engineering" Course Model Design Competition, August 2, Chengdu, Sichuan;



The 18th National College Students Chemical Engineering Design Competition, August 16-22, Hangzhou, Zhejiang;



2024 "First Class of Chemical Engineering", September 13, Beijing;



National College Students Contest of Chemical Engineering Safety Design Final, December 7, Guangzhou, Guangdong;





2024 "SCIP" Green Chemistry and Chemical Industry Innovation & Entrepreneurship Competition, December 13, Shanghai;

#### CIESC Continuing Education Programs and Continuing Education Base;

To further enhance the continuing education efforts for chemical industry professionals and establish a professional and efficient talent education platform, CIESC has carried out the 2023 continuing education project and base application and recognition process. A total of 8 units were selected for the proposed recognition of CIESC Continuing Education Bases, and 16 continuing education projects were recognized. By developing scientifically organized and standardized educational courses, the goal is to build a professional and efficient platform for talent education, and improve the engineer training, evaluation, service, and recommendation systems.

## 5. Socialized Public Services

### 5.1. Evaluation of scientific and technological achievements



### 5.2. Formulation and revision of group standards

CIESC launched the development and revision of group standards in 2018. By the end of 2024, 172 group standards have been approved for project initiation, and 81 standards have been approved for release. Among these, 19 group standards were approved and released in 2024, with 23 projects approved for initiation.

### 5.3. Evaluation of the competency level of chemical engineers

In order to promote the growth of scientific and technological talents in the chemical industry and explore the establishment of a third-party talent evaluation system that meets the specific needs of the chemical industry and is socially recognized, as well as to prepare for the international mutual recognition of engineer qualifications, CIESC, authorized by CAST, initiated the chemical engineer professional level evaluation in 2020. By 2024, more than 220



chemical engineers had passed the evaluation for engineer, senior engineer, and professor-level engineer qualifications.

### 5.4. International mutual recognition qualifications for chemical and chemical engineering capabilities

The International Mutual Recognition of Engineering Competencies in Chemistry and Chemical Engineering has been successfully carried out;

CIESC is one of the founding members and 27 standing council units of the China Engineers Union. As the leading organization for the "Engineering Competency Evaluation in Chemistry and Chemical Engineering," it continued to explore and pilot international mutual recognition in the field of chemistry and chemical engineering in 2024. A total of 48 individuals passed the 2024 engineering competency evaluation in chemistry and chemical engineering and became members of the China Society of Engineers.

In 2024, under the guidance of the China Society of Engineers, CIESC produced a 3-hour English-language engineering ethics course, which will be shared with countries along the Belt and Road Initiative as a high-quality course. The pilot engineering mutual recognition project with the Royal Society of Chemistry in the UK successfully concluded, with three individuals receiving joint certificates, providing valuable experience for the mutual recognition process. With the support of CNPC and Shihezi University, CIESC assisted the Chinese Association for Science and Technology (CAST) in the visit to Kazakhstan. Discussions were held with the Central Asian Education Accreditation Association on topics such as scientific and technological cooperation, engineer mutual recognition, and employment promotion. A memorandum of understanding is planned for signing, aiming to integrate regional, institutional, and talent advantages to promote academic exchanges and talent development between China, Kazakhstan, and Central Asia, thereby supporting China's science and technology diplomacy and the Belt and Road Initiative.



## 6. Organizational Building



CIESC Branch Committees Work Meeting,  
January 16-18, Changzhou, Jiangsu;



The 3rd Member Representative Meeting of CIESC Energy Storage Engineering Professional Committee, April 27, Guilin, Guangxi;



The 8th Member Representative Meeting of CIESC Biochemical Engineering Professional Committee, April 13, Beijing;



The 10th Member Representative Meeting of CIESC Chemical Engineering Professional Committee, April 28, Beijing;



CIESC Chemical Big Data and Intelligent Design Professional Committee was officially established, May 25, Deqing, Zhejiang;



The 7th National "Internet+ Chemical Reaction Engineering" Course Model Design Competition, August 2, Chengdu, Sichuan;



The 2nd Member Representative Conference of CIESC Engineering Ethics Education Work Committee, July 8, Qingdao, Shandong;





CIESC 3rd Meeting of the 41st Council , November 1, Xi'an, Shaanxi;



The 10th Member Representative Assembly of CIESC Coal Chemical Engineering Professional Committee, December 20, Shanghai;



The Establishment of CIESC Polymer and Polymer Engineering Professional Committee, December 22, Hangzhou, Zhejiang;



11 branches successfully completed their leadership transitions in 2024;

No	Branch Name
1	Chemical Engineering Professional Committee
2	Biochemical Engineering Professional Committee
3	Coatings & Finishing Professional Committee
4	Energy Storage Engineering Professional Committee
5	Chemical Process Intensification Professional Committee
6	Thermochemistry and Engineering Professional Committee
7	Daily Chemical Products Professional Committee
8	Pesticide Professional Committee
9	Petrochemical Ecological Engineering Professional Committee
10	Coal Chemical Engineering Professional Committee
11	Engineering Ethics Education Committee



## Outstanding Branches' Showcase

### Fine Chemical Engineering Professional Committee: Focusing on Academic Exchange Leadership, Refining High-End Conference Brands;

The Fine Chemical Engineering Professional Committee of CIESC was established in 2003, with the current term being the 9th. Its host institution is Dalian University of Technology. The committee is composed of the chairman, Academician Peng Xiaojun of the Chinese Academy of Sciences, the secretary-general, Professor Fan Jiangli from Dalian University of Technology, 14 vice-chairpersons, and 56 committee members.

Since the establishment of the 9th Fine Chemical Engineering Professional Committee more than two years ago, it has consistently shouldered the important responsibility of promoting the development of the fine chemical industry. The committee has remained at the forefront of academic exchanges, carefully planning and successfully organizing or co-hosting nearly ten important academic conferences. Through its forward-looking selection of topics, comprehensive publicity efforts, and systematic organization planning, the committee has accumulated rich experience in hosting academic conferences.



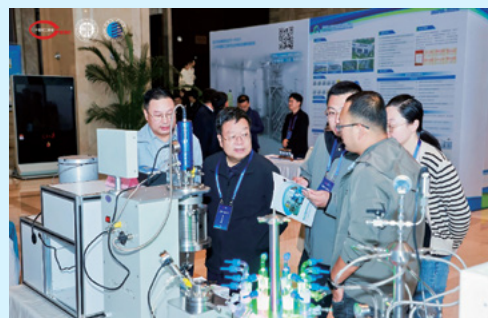
The "2024 Third National Fine Chemical Conference," hosted by the Fine Chemical Engineering Professional Committee and co-organized by Northwest University and Shaanxi University of Science and Technology, took place from October 11 to 13. Academician Peng Xiaojun served as the conference chairman. The conference discussed the latest research progress and technological achievements in the field of fine chemical engineering. The event received enthusiastic responses, with authoritative media platforms such as China Net and China Chemical Industry News extensively reporting on the conference.

### Conference Topic Selection — Aligning with the Pulse of the Times and Industry Needs

In line with national strategic guidance: Fine chemicals serve as a pillar industry for the national economy and are a key driver for the high-quality development of manufacturing. With high technological intensity, high product added value, strong industrial relevance, and rapid demand growth, fine chemicals are one of the most dynamic emerging sectors in the current chemical industry. The Fine Chemical Engineering Professional Committee closely aligns with national development strategies and recognizes its pivotal role in advancing the high-quality development of manufacturing. The conference topics centered around major national demands for the fine chemical industry, focusing on how technological innovation can enhance industry competitiveness and drive the transformation of the industry toward green, low-carbon, and circular development. This ensured that the topics held macro-strategic significance and connected strategic guidance with academic support for the development of the industry.

**Seizing current Hotspot opportunities:** In September 2023, President Xi Jinping first introduced the concept of "new type of productive forces." This term represents the modernized form of productive forces, characterized by higher technology levels, better quality, greater efficiency, and sustainability compared to traditional forms of productivity. The new type of productive forces is driven by innovation, breaking away from traditional economic growth models and pathways, and embodies high-tech, high-efficiency, and high-quality features, aligning with the advanced production capacity consistent with the new development concept. By incorporating this current hot topic, the conference not only stayed in tune with the times but also offered a fresh theoretical perspective for technological innovation in the fine chemical industry. It inspired participants to explore industry development paths from the perspective of new productive forces.

**Focusing on frontier needs:** In addition to the above, the selection of topics initially considered the strategic development direction of the fine chemical industry, ensuring the conference theme covered emerging technologies and innovative processes, as well as frontier content and needs. This helped create a platform for experts, scholars, and industry representatives to discuss the latest trends in the industry and facilitated the exchange of ideas for technological breakthroughs and innovative development in the fine chemical field.





### Conference Promotion — Multi-Channel, All-Around Promotion

**Mainstream Media Cooperation:** The conference collaborated with mainstream media platforms such as People's Daily Online, China Daily, The Paper, China.com, and Sohu.com to report on the event. Leveraging their broad audience base and powerful communication capabilities, the conference quickly increased its visibility and influence before the event, attracting more attention from both inside and outside the industry regarding the development of the fine chemical field.

**New Media Platform Support:** Several WeChat official accounts, including those from Northwest University and the Fine Chemicals Editorial Department, were used for extensive promotion. Targeted groups such as professionals in the fine chemical industry, university faculty and students were precisely reached with high-interaction content. By releasing event previews, expert introductions, and highlights, the platforms helped create an engaging atmosphere ahead of the conference, drawing relevant participants.

**Industry Integration Promotion:** The conference also assisted the Bazhong Zengkou-Jintang Chemical Industrial Park (Zengkou Block) in using the event platform to attract investment and conduct innovation research services. This combined promotion efforts with actual industry needs, enhancing the deep integration of government, industry, academia, research, and business in the fine chemical sector, further expanding the conference's influence within the industry.



### Conference Organization — Scientifically Setting Up the Venue Layout and Inviting a Top-Tier Panel

The conference was organized with one main venue and five sub-venues, each focusing on different themes such as fine chemical intelligent manufacturing, biochemistry, fine chemicals product engineering, a women scientists' forum, and an industry-academia-research forum. The event invited nine academicians, including Zhang Tao, Yuan Yingjin, Ma Guanghui, Zhu Weihong from the Chinese Academy of Sciences, and Wang Yuzhong, Zheng Yuguo, Yang Weimin, Chen Fen'er, and Lü Jian from the Chinese Academy of Engineering to attend and give reports. Additionally, 127 invited talks and oral presentations were arranged.

The strong lineup of experts provided high-level academic content, attracting nearly 800 representatives from universities, research institutes, and industry enterprises across the country, including over 80 national outstanding talents. This ensured the academic quality and authority of the conference. Notably, the fifth sub-venue hosted an industry-academia-research exchange forum, inviting more than 50 companies to participate and hold roundtable meetings to release technical demands and product promotions. This organizational format promoted direct communication and collaboration between universities, research institutes, and businesses, accelerating the transformation and industrial application of research achievements, achieving deep integration of industry, academia, and research, and providing strong momentum for the development of the fine chemical industry.



Currently, the National Fine Chemicals Conference has become the largest and most influential academic conference in the field of fine chemicals in China. It has built a high-end communication platform for fine chemicals, promoting the transformation of scientific achievements and their industrial application in the fine chemicals sector, contributing to the realization of high-quality economic development. With its rich and valuable experience in organizing academic conferences, the Fine Chemical Engineering Professional Committee will continue to deepen domestic and international cooperation and exchange, strengthen talent cultivation, stimulate innovation, and promote the industrial upgrading and innovative development of the fine chemical industry.

**Industrial Water Treatment Professional Committee: Focusing on Member Development and Service, Building a Comprehensive Industry Platform;**

The Industrial Water Treatment Professional Committee of the Chinese Chemical Society was established in 1980. It is a social organization under the leadership of the Chinese Chemical Society, dedicated to promoting scientific and technological innovation in water treatment and



advancing the development of the water treatment industry. The committee has both academic and industrial characteristics, and its hosting institution is the Tianjin Chemical Research & Design Institute of China National Offshore Oil Corporation (CNOOC). The 9th Committee is composed of academicians, renowned scholars, industry experts, outstanding young and middle-aged scientific and technological workers, and entrepreneurs in the field of water treatment.

In 2024, the Industrial Water Treatment Professional Committee continues to focus on water pollution control, water ecological restoration, and water resource protection. It advocates and organizes water treatment scientists and engineers to break through industry bottlenecks with technological innovation. The committee strives to open communication channels between industry, academia, research, and application, promoting the prosperity and development of water treatment technology and continuously supporting China's fight against water pollution and ecological civilization construction. The committee fully leverages its talent and resource advantages, providing strong technological support for high-quality development in the industry, local governments, industrial enterprises, and environmental protection enterprises. It has received broad recognition from society.

The Industrial Water Treatment Professional Committee believes that the development and service of its members are essential foundations and driving forces for industry work. As such, the committee has built a highly advantageous, diverse membership system, which encompasses research, design, technology, equipment, products, engineering, and water service operations in the water treatment field. It also gathers many members, experts, and water treatment scientists.

#### Membership Development — Multidimensional Strategies for Strong Growth

The strategies for membership development within the Industrial Water Treatment Professional Committee cover the following six key aspects:

**Strengthen internal organizational construction:** The committee's secretariat has established a Membership Management Department to handle daily member services, scientific and technological achievements evaluation, professional capability evaluation, group standards, and other member-related services. For unit members, the committee maintains detailed service records and forms service reports, enhancing the membership experience and improving satisfaction.

**Set clear membership standards:** The committee has formulated clear membership criteria, including enterprise qualifications, technical capabilities, and industry influence, ensuring that newly joined unit members possess certain strength and development potential, thus improving the overall level of the committee.

**Provide rich member benefits:** Members are granted priority in academic exchanges, access to industry information and technical resources, and enjoy technical support and consulting services, strengthening their sense of belonging and active participation.

**Carry out diversified promotional activities:** Through multiple channels and formats such as WeChat official accounts, websites, and academic conferences, the committee actively showcases its achievements and advantages, increasing its visibility and influence while attracting more potential members.

**Enhance interaction with current members:** Regular interactions with existing members allow the committee to adjust services based on feedback and needs. This is done through events like seminars and surveys, strengthening members' sense of participation and satisfaction.

**Establish a recommendation-based membership mechanism:** The committee encourages current members to recommend qualified enterprises for membership, rapidly expanding the number of members while improving the quality and loyalty of new members, thereby creating a positive reputation.

#### Membership Services — Expanding Service Functions with Multiple Measures

**Build academic and technical exchange platforms to promote industry development:** Based on national ecological environment and green development policies, and driven by the needs of individual and organizational members, the committee actively develops platforms for water ecology, water environment, water resources, water technology, and water industry exchanges. It organizes comprehensive, regional





industry conferences, special seminars, and exchange activities, offering members the priority to participate in conferences, technical reports, exhibition booths, and networking opportunities. This promotes "industry-academia-research-application" exchanges and cooperation, supporting the innovation and application of water treatment technologies and the development of the water treatment industry.

The Industrial Water Treatment Professional Committee has also carefully created an online communication platform, the "Cloud Conference," to establish an online academic and technical exchange platform for the industry, enhancing mutual learning and communication among water treatment scientists and engineers in the post-pandemic era. The committee organizes a series of online events, including online forums, specialized application seminars, and other water treatment-related virtual conferences. Dozens of experts and member enterprises from various subfields of water treatment are invited to deliver online presentations and engage in exchanges, sharing outstanding water treatment technologies, processes, case studies, solutions, operational experiences, etc. This helps enterprises with their promotional efforts and market expansion. Approximately 40 sessions are held annually, with over 20,000 online viewers.



**Provide multi-level talent services to support member development:** The Continuing Education Base of the Industrial Water Treatment Committee of the Chinese Chemical Society, with its solid professional foundation and forward-looking vision, has carefully established a multi-level talent service system that includes training, evaluation, and recommendation. It offers training in key areas of industrial water treatment, such as industrial enterprise cooling water technology and operation management, industrial water system operation and intelligent management, and industrial wastewater treatment operation management. This comprehensive training covers critical fields of industrial water treatment and precisely enhances the professional quality of technical personnel in enterprises, strengthening their core competitiveness. In line with the overall requirements for promoting the professional and social evaluation of scientific and technological talents, and emphasizing the professional attributes and technical advantages of the Society, the focus is on evaluating the professional level of chemical engineering technical personnel, with pilot exploration of professional title assessment for technical personnel. The committee also actively recommends talents for the Hou Debang "Youth Award," "Achievement Award," "Innovation Award," as well as the Chinese Chemical Society Science and Technology Award and the "Youth Talent Uplifting Program."



**Building a media information platform matrix to strengthen the construction of publicity positions:** By leveraging multiple channels such as WeChat official accounts, video accounts, society member newsletters, member groups, and "Weekly Industry Dynamics," regular communication with members is maintained to ensure effective liaison work and promote efficient information transmission and interactive exchange. The "Industrial Water Treatment" WeChat official account has published over 600 pieces of scientific and technical professional information, with a total readership exceeding 2 million and more than 100,000 followers. Additionally, over 30 short videos have been launched on the video account, covering member publicity, industry trends, and popular science knowledge, with a readership exceeding 100,000. Significant achievements have been made in member promotion.





Currently, the Industrial Water Treatment Professional Committee has successfully attracted 119 institutional members, 268 professional members, and 869 individual members. The existing membership system not only promotes in-depth exchanges and resource sharing in the water treatment field but also creates a powerful synergy in areas such as technological innovation, project collaboration, and industry standard formulation. This has laid a solid foundation for promoting the high-quality development of the water treatment industry, showcasing strong industry cohesion and vitality.

#### **Petrochemical Archives Professional Committee: Providing Training to Empower Career Paths and Offering Business Guidance to Lead the Archives Journey;**

The Petrochemical Archives Professional Committee of the China Chemical Society was established in 2020. It was set up as a professional branch to meet the development needs of the production, research, application, and teaching of petrochemical archives, focusing on academic exchange, member services, international communication, editing and publishing, technological innovation, training, business guidance, and consulting related to petroleum, natural gas, and petrochemical archives.

Since its establishment, the Petrochemical Archives Professional Committee has focused deeply on the field of archives business training. With a professional and highly targeted training system, it quickly established a distinctive professional characteristic. To date, six training sessions have been successfully held, with a total of more than 500 participants. In 2024, the Committee further leveraged its advantages, strengthening its business and technical training efforts. It carefully prepared and successfully held two specialized courses on petroleum and petrochemical enterprise archive management. These courses have gradually shaped a distinctive training brand that combines professionalism and practicality, receiving widespread praise within the industry. At the same time, the Committee continues to enhance its coordination ability, explores innovative approaches, and actively supports the high-quality development of the archival industry. It has successfully passed the archival service quality management system certification, laying a solid foundation for the standardized and regulated development of archival services.

**Continuous Iteration of Courses, Seeking Reform and Innovation:** In the process of designing training courses, the Committee adheres to the core concept of "Content First," closely aligning with the actual needs of petrochemical enterprise archive management. Practicality and operability are given top priority, ensuring that the training content effectively meets the daily archive management needs of enterprises. To continuously meet the evolving training needs of enterprises and participants, the Committee is actively involved in the innovation and transformation of training methods and content. By introducing advanced archival management concepts, technologies, and methods, the Committee promotes the popularization of archival knowledge and the dissemination of scientific spirit, providing high-quality continuing education and technical training services to its members and related professionals.

**Optimizing Faculty Configuration, Ensuring Training Quality:** With talent development as the core driving force, the Committee widely recruits senior experts, scholars, and frontline archive management professionals with rich practical experience, effectively building a high-level teaching team. It actively promotes the establishment and improvement of an expert database for archive professionals, providing solid support for the scientific, practical, and forward-looking nature of the training content. Each training session has received excellent feedback from participants, significantly improving the professional technical level and comprehensive management capabilities of archival professionals.



#### **Strengthening Internal Standards through Quality Certification**

To meet the continuously developing business needs and enhance its service quality management system, the Petrochemical Archives Professional Committee, with a solid and meticulous work attitude, successfully passed the Archival Service Quality Management System certification in September 2024. This certification will lay a solid foundation for the Committee's core businesses, such as archive management consulting, organizing archive management training, and implementing quality evaluations for construction project archives. It will inject strong momentum into the Committee's move toward refined and professional business management, significantly improving its operational efficiency and brand recognition. This certification will guide the archival work to move into a systematized, scientific, and standardized development



trajectory. In the long term, this certification will support the Committee in achieving its own high-quality development while also yielding greater economic and social benefits. It will set a benchmark for the Society and its affiliated branches in the field of system certification, playing a positive role in guiding and setting an example.



Building on this foundation, the Petrochemical Archives Professional Committee deeply explores the value of archival resources, fully leveraging their service effectiveness. With profound professional expertise and keen industry insight, the Committee provides a comprehensive and high-quality professional service system that offers precise and efficient archive consulting and validation, specialized technical support, and advanced technology promotion to the petrochemical industry. This continuous flow of strong momentum injects into the high-quality development of archive management in the petrochemical sector, guiding the industry toward more standardized, efficient, and innovative directions.

Additionally, the preparation of the group standard "Specifications for Document Control and Archive Management in Modern Coal Chemical Construction Projects", approved by the Society, has officially started. The Committee gathers the wisdom of industry experts, conducts in-depth research, and scientifically validates the process, aiming to create an authoritative and leading industry standard. This will provide a scientifically-based operational guide for document control and archive management in modern coal chemical construction projects, propelling the industry's management level to new heights.



#### The Energy Storage Engineering Professional Committee: Leading Experts of the Society Delivering Technology, Empowering Grassroots Innovation and Science in China;

The Energy Storage Engineering Professional Committee of the Chemical Industry and Engineering Society of China (CIESC) was established in 2014 in response to the technological development needs of the energy sector, particularly focusing on the characteristics and development of energy storage science and technology. The committee is supported by the Institute of Process Engineering, Chinese Academy of Sciences, and its secretariat is based at the editorial office of "Energy Storage Science and Technology". The committee's service scope covers diverse areas of energy storage, including chemical energy storage (various types of batteries such as lithium, vanadium, sodium, lead-acid, fuel cells, etc.), pumped storage, compressed air energy storage, cryogenic energy storage, thermal and cold storage, superconducting energy storage, flywheel energy storage, and supercapacitors. It provides a comprehensive service platform for industry stakeholders, researchers, and enterprises, facilitating academic exchanges, technical consulting, project validation, technology identification, seminars, and professional training. This has significantly contributed to the collaborative development and innovation within the energy storage sector.

In recent years, the China Association for Science and Technology (CAST) has worked to establish its flagship service brand, Sci-Tech Innovation China, aligning with the national innovation-driven development strategy. This initiative actively integrates science and technology with the economy, aiming to inject strong momentum into high-quality development, promote the conversion and application of scientific innovation, and lead the trend of innovation in the era. At the same time, the enormous innovation potential in grassroots regions offers strong support for the transformation and upgrading of traditional industries, fosters the incubation of emerging industry clusters, creates abundant job opportunities, and nurtures new forms of productive forces, becoming a key support for regional coordinated development.

In this context, the Energy Storage Engineering Professional Committee has actively participated in the Sci-Tech Innovation China initiative. It has focused on regions such as Changxing in Zhejiang, Mianzhu in Sichuan, Jiaozuo in Henan, and Jingmen in Hubei, leveraging its expertise



in energy storage to help these areas tap into the potential of the energy storage industry, drive technological innovation and application, and contribute to the industrial development and technological progress of these regions. Together, they are working toward the grand blueprint of Sci-Tech Innovation China.

**Establishing Service Stations and Efficiently Building a Sustainable Mechanism:** The committee has promoted the establishment of expert service stations in regions like Changxing, Jingmen, and Jiaozuo, with the ongoing support of the society. This initiative will effectively promote the deep integration of the society's technological resources and the needs of local enterprises, serving as a crucial bridge for transferring technological achievements, solving technical challenges, and tackling key technological issues. It will provide a convenient channel for energy storage researchers to transfer advanced technological outcomes to enterprises, assist in solving complex technical problems, and overcome critical core technologies hindering industrial development. This will also help break down the barriers in the process of technology transfer and commercialization, significantly improving efficiency, and enable the society to better serve enterprises in their innovation and industrial upgrading efforts.

**Customized Services and Precision Planning to Solve Pain Points:** By fully leveraging expert resources, the committee organizes senior industry experts to conduct field visits and face-to-face communications with enterprises. They focus on accurately analyzing and addressing the pain points of companies in areas like R&D and production processes, providing tailored technical solutions that match the companies' development needs. For instance, Professor Zhang Qiang, Vice Chairman of the Energy Storage Engineering Professional Committee and a professor at Tsinghua University, identified the urgent needs of the company Muyang in lithium-sulfur battery technology during a discussion. He reached a cooperation agreement with the company, signed a technical service contract, and provided a detailed research proposal. His extensive research experience provided full support during the technical breakthrough process. This deep integration of industry, academia, and research has helped the company overcome bottlenecks, successfully secure a competitive position in the industry, and achieve a dual leap in technical strength and market competitiveness. This also sets an example for technological innovation and industrial upgrading in the energy storage sector.



**Promoting through Various Forms to Actively Expand Industry Influence:** Leveraging the power of new media platforms, the Energy Storage Engineering Professional Committee (ESEPC) has organized various activities to promote the national innovation-driven development strategy and the Society's related work in multiple forms and on a regular basis. Over the past five years, the committee has carefully planned 2-3 online public courses or forums every year, building an interactive platform for industry experts, scholars, and practitioners. These forums focus on in-depth discussions of cutting-edge technologies, development trends, and other hot topics within the energy storage field.

At the same time, the committee has made full use of high-quality industry expert resources, actively recommending experts to participate in the Society's "Hou Debang Public Lecture Hall" live events. These experts, with their professional knowledge and insightful case studies, have attracted a large number of professionals in the energy storage field to watch online. The total number of views for these exchange reports has exceeded 1 million, generating a strong response within the industry.

Furthermore, the committee has also utilized multiple channels, including the "Energy Storage Science and Technology" journal, the WeChat official account, and the official website, to timely and comprehensively promote information about the Society's scientific innovation activities. The content is presented in a visually appealing and detailed format, enabling a wider audience to understand the Society's and the committee's proactive role in driving technological innovation in the energy storage industry. This has further enhanced the reputation and influence of the Society and the committee within the industry, creating a positive public opinion environment for the development of the energy storage industry.

Going forward, the Energy Storage Engineering Professional Committee will continue to rely on the Society's "Sci-Tech Innovation China" initiative to enhance the creation and operation of service stations. These service stations will be closely integrated with enterprises, fostering a positive environment for the development of new forms of productive forces. They will transform the service stations into platforms for showcasing the talents of technological professionals, becoming a true "bridgehead" that promotes local technological innovation and economic development.



## Introduction of CIESC

CIESC was established on April 23, 1922, in Beijing. It was originally known as the China Chemical Industry Association and the Chinese Society of Chemical Engineering, making it one of the earliest national, public, and academic social organizations in China. Pioneers of the Chinese chemical industry, such as Chen Shizhang, Yu Tongkui, Fan Xudong, Wu Yunxu, Hou Debang, Hou Xianglin, and Min Enze, along with generations of scientific and technological workers, founded and grew the CIESC. Over the past century, alongside the remarkable development of China's chemical industry—from nothing to something, from weak to strong—the CIESC has consistently shared the same destiny as the nation, marching in step with the times. It has united, consolidated, and led generations of chemical technology workers, dedicating itself to advancing China's chemical science and technology and contributing actively to the remarkable achievements of the nation's chemical industry.

CIESC is a voluntary organization formed by chemical technology workers and relevant organizations. It holds legal entity status as a social organization and serves as the bridge and link between the Party, government, and chemical technology workers. It is an essential part of the national innovation system. CIESC is committed to serving science and technology workers, driving innovation, improving national scientific literacy, and supporting scientific decision-making by the Party and government. The Society works to promote the prosperity and development of chemical science and technology, to advance its popularization, to foster the growth of chemical science and technology professionals, and to integrate chemical science and technology with economic development, while protecting the legal rights and interests of chemical technology workers. It strives to build an open, hub-like academic organization, bringing chemical scientists and engineers closer to the Party, and working toward the great rejuvenation of the Chinese nation.

In recent years, CIESC has been dedicated to its "four services" responsibilities: serving science and technology workers, serving innovation-driven development, serving national scientific decision-making, and serving the enhancement of national scientific literacy. With these commitments, the Society's influence has grown steadily. Currently, CIESC has 47 professional committees and 3 working committees, with over 500 institutional members and more than 70,000 individual members. The Society publishes six academic journals: "CIESC Journal", "Chemical Industry and Engineering Progress", "Chinese Journal of Chemical Engineering", "Energy Storage Science and Technology", "Petrochemical Technology", and "Fine Chemicals", while its branches publish 28 professional academic journals. CIESC has established cooperative relationships with dozens of international organizations. It is one of the nine members of the Executive Committee of the World Chemical Engineering Council (WCEC) and one of the 13 members of the Council of the Asia Pacific Confederation of Chemical Engineering (APCChE), where it holds the rotating chairmanship. CIESC vigorously promotes scientific spirit, encourages technological innovation, and strengthens international exchange, becoming a vital force in advancing China's chemical science and technology in the new era.

The century-long journey has been magnificent, and the original mission remains steadfast. In the new century, CIESC will continue to be guided by Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era, forging ahead with determination and commitment. It will continue to lead chemical technology workers, focusing on chemical science and technology innovation, and play a more significant role in advancing China's chemical science, technology, and education. CIESC aims to contribute even more to achieving the "Two Centenary Goals" and the great rejuvenation of the Chinese nation through its future endeavors.





# CIESC Journals

Academic journals are an important wing of academic communication. The Chemical Industry and Engineering Society of China (CIESC) publishes six academic journals: "CIESC Journal", "Chemical Industry and Engineering Progress", "Chinese Journal of Chemical Engineering", "Energy Storage Science and Technology", "Petrochemical Technology", and "FINE CHEMICALS ". Additionally, 28 specialized field journals are published by its branches, forming a comprehensive academic communication journal brand matrix.

In 2024, "CIESC Journal", "Chemical Industry and Engineering Progress", and "Chinese Journal of Chemical Engineering" successfully completed the first-phase annual project of the China Association for Science and Technology (CAST) China Science and Technology Journal Excellence Action Plan and were smoothly selected for the second-phase project (2024-2028). "Chemical Industry Progress" was also included in the Key Chinese Journal Project under the Capital Science and Technology Journal Excellence Action Plan.

In 2024, "Chemical Industry and Engineering Progress" and "CIESC Journal" continued to maintain leading positions in journal evaluation indicators. The latest journal metrics released by the China Institute of Scientific and Technical Information and the Journal Influence Index (CI) published by CNKI ranked them first and second in their respective disciplines. "Chemical Industry and Engineering Progress" was recognized as one of the "Top 100 Outstanding Chinese Academic Journals" and awarded the "2024 Excellent Academic Journal with International Influence in China" title. "Chinese Journal of Chemical Engineering" was selected as one of the "2024 Most Internationally Influential Chinese Academic Journals." Its impact factor remained stable at 3.7 in the U.S. SCI database's International JCR Citation Report, and its global engineering-chemical ranking improved to 58th. "Chemical Industry and Engineering Progress", "CIESC Journal", "Chinese Journal of Chemical Engineering", and "Energy Storage Science and Technology" were all included in the 2024 World Influence Index Report for Science and Technology Journals.

## Chemical Industry and Engineering Progress



<http://www.hgjz.com.cn>

微信公众号名称“化工进展”

Founded in 1981, currently a monthly journal. Indexed in important international and domestic databases such as EI, SCOPUS, and CSCD. It is the official journal of the China Chemical Industry and Engineering Society (CIESC). It has been included in the China Premium Science and Technology Journals and China Science and Technology Journal Excellence Action Plan. In 2024, it ranked first in the China Academic Journal Impact Factor Annual Report (CI) in its field, and also ranked first in the China Science and Technology Journal Citation Report (Core Edition) in the chemical engineering category. The journal is ranked 18th among 2,156 Chinese science and technology journals in comprehensive evaluation. It also ranked first in the "Chemical Industry" category of the 2023 edition of Chinese Core Journal Guide. The journal's mission is to reflect the latest achievements and trends in the domestic and international chemical industry, introduce high-tech innovations, disseminate chemical engineering knowledge, and promote the progress of chemical science and technology. It has always advocated the role of scientific journals in serving the development of disciplines and the chemical industry, focusing on research, technology, and industry.



### Awards Received by "Chemical Industry and Engineering Progress" in 2024:

- Selected for Phase II of the China Science and Technology Journal Excellence Action Plan as a Leading Chinese Journal Project.
- Included in the Capital Science Journal Excellence Action Plan as a Key Chinese Journal Project.
- Top 100 Outstanding Chinese Academic Journals.
- 2024 Most Internationally Influential Academic Journal in China.
- Selected for the 2024 Top Journal Paper Platform Leader F5000 Project in the Premium Journal category.
- Selected as a T1-level journal in the inaugural "High-Quality Science and Technology Journal Classification Directory in the Chemical Engineering Field".

ISSN

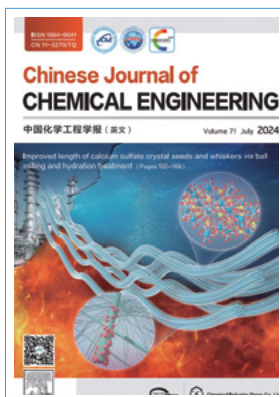
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## Chinese Journal of Chemical Engineering



<http://www.cjche.com.cn>

微信公众号名称 “CJChE 中国化学工程学报”

Founded in 1982, currently a monthly journal. It is indexed in renowned international and domestic databases such as SCIE, EI, SCOPUS, CA, “China Scientific Paper Statistics and Analysis”, and the “Chinese Science Citation Database”. The journal is part of the China Science and Technology Journal Excellence Action Plan. According to the Journal Citation Report (JCR) published by the American SCl database, it has an impact factor of 3.7 and is classified in the Q2 quartile. The journal’s mission is to reflect innovative scientific research outcomes in the field of chemical engineering in China, promote academic development and exchanges in the domestic and international chemical engineering communities, and cultivate chemical technology talent. The journal focuses on the forefront of chemical engineering development, both in China and globally, and addresses major national economic needs. It mainly publishes original research papers on basic chemical engineering theory, new technologies, methods, equipment, and materials. It also reports valuable basic data and provides reviews and essays that guide discipline development and technological progress. The scope includes chemical engineering, chemical processes, chemical equipment, process development, chemical metallurgy, and related high-tech fields such as biology, information, energy, materials, environmental engineering, and safety engineering.



### Awards Received by “Chinese Journal of Chemical Engineering” in 2024:

- Selected for Phase II of the China Science and Technology Journal Excellence Action Plan as an English Tier Journal Project.
- 2024 Most Internationally Influential Academic Journal in China.
- Selected for the 2024 Top Journal Paper Platform Leader F5000 Project in the Premium Journal category.
- Selected as a T1-level journal in the inaugural “High-Quality Science and Technology Journal Classification Directory in the Chemical Engineering Field”.

ISSN

ISSN 1004-9541

CN 11-3270/TQ

CN

## CIESC Journal



Founded in 1923, currently a monthly journal. It is indexed in international and domestic databases such as EI, CA, SCOPUS, CSCD, and others. It is the official journal of the China Chemical Industry and Engineering Society (CIESC). The journal has won the China Publishing Government Award for Journals, been selected as one of the Top 100 Outstanding Chinese Academic Journals, Top Chinese Science & Technology Journals, and is part of the China Science and Technology Journal Excellence Action Plan. It mainly publishes original academic papers in the field of chemical engineering and related interdisciplinary fields, representing the level of China’s basic and applied research.



### Awards Received by “CIESC Journal” in 2024:

- Selected for Phase II of the China Science and Technology Journal Excellence Action Plan as a Leading Chinese Journal Project.
- Selected for the 2024 Top Journal Paper Platform Leader F5000 Project in the Premium Journal category.
- Selected as a T1-level journal in the inaugural “High-Quality Science and Technology Journal Classification Directory in the Chemical Engineering Field”.

<http://www.hgxb.com.cn>

微信公众号名称 “化工学报”

ISSN

ISSN 0438-1157

CN 11-1946/TQ

CN



## FINE CHEMICALS



"FINE CHEMICALS" was founded in June 1984 and is published on the 15th of each month, with both domestic and international distribution. It is the official journal of the Fine Chemicals Professional Committee of the China Chemical Industry and Engineering Society and the China Fine Chemicals Association (under preparation).

"FINE CHEMICALS" has won numerous honors, including being selected as one of the Top 100 Outstanding Chinese Academic Journals, consistently listed as a China Premium Science and Technology Journal, and ranked among the Top 100 Petroleum and Chemical Journals in China. Several outstanding papers are selected annually for the F5000 - Top Academic Papers in China Premium Science and Technology Journals. The journal is indexed in EI (EI Compendex), Scopus, "Chemical Abstracts" (CA), Japan's "Scientific & Technical Society Chinese Literature Database" (JST), Russia's "Abstract Journal" (pж), and "Cambridge Scientific Abstracts" (CSA) in the U.S. It is a Chinese Core Journal, a Core Journal in Chinese Science and Technology, a Peking University Core Journal, an RCCSE China Authoritative Academic Journal (A+), a "China Science Citation Database - Core Edition" (CSCD) source journal, a full-text journal in "China Academic Journal" (CD Edition), a source journal in "China Academic Journal Comprehensive Evaluation Database", a source journal in "China Core Journals (Selection) Database", and a source journal in "China Academic Journal Abstracts (English Edition)".

 <http://www.finechemicals.com.cn/>

 微信公众号名称“精细化工”

ISSN

I ISSN1003-5214

CN21-1203/TQ

CN

## Petrochemical Technology



Founded in February 1970, currently a monthly journal. "Petrochemical Technology" is a Chinese Core Journal, a core journal in the field of Chinese Science and Technology, and a CSCD Core Journal. It is indexed in CA and JST. The journal ranks among the top 40 in the Second National Petroleum and Chemical Journals Top 100 and is listed as one of the top 30 digital journals. It has been recognized as a "China Premium Science & Technology Journal" and an "RCCSE China Authoritative Academic Journal." The journal reports technological achievements in the petrochemical industry and related fields, introducing new technologies and developments in the petrochemical and related sectors.

 <http://www.shiyouhuagong.com.cn>

 微信号: 无

ISSN

ISSN 1000-8144

CN 11-2361/TQ

CN

## Energy Storage Science and Technology



Founded in 2012, indexed in the Scopus database. It is a Chinese Core Journal, a core journal in the field of Chinese Science and Technology, and in the Chinese Science Citation Database. The journal was revised in 2022 to become a monthly publication. The current editor-in-chief is Professor Huang Xuejie from the Institute of Physics, Chinese Academy of Sciences. In 2023, the journal's impact factor in the Chinese Science Core was 1.6, ranking 4th among 21 journals in the energy discipline. The journal has won multiple industry awards and is considered a leading publication in the field.



Awards Received by "Energy Storage Science and Technology" in 2024:

Included in the 2024 World Influence Index Report for Science and Technology Journals.

Selected as a T2-level journal in the inaugural "High-Quality Science and Technology Journal Classification Directory in the Chemical Engineering Field".

 <http://www.energystorage-journal.com>  微信号: esst2012

ISSN

ISSN 2095-4239

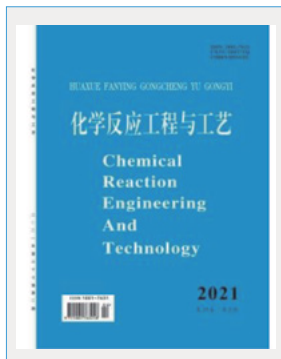
CN 10-1076/TK

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The name and cover of the journals sponsored by CIESC professional committees



Chemical Reaction Engineering and Technology



Safety, Health and Environment



Environmental Protection of Chemical Industry



Industrial Water Treatment



Chemical Engineering & Machinery



New Chemical Materials



Inorganic Chemical Industry



Fertilizer and Health



Nitrogen Fertilizer & Syngas



China Rubber industry



Tire Industry



Agrochemicals

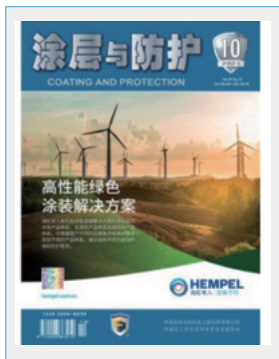


Dyestuffs and Coloration



Rubber Science and Technology

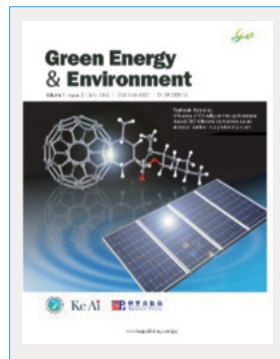




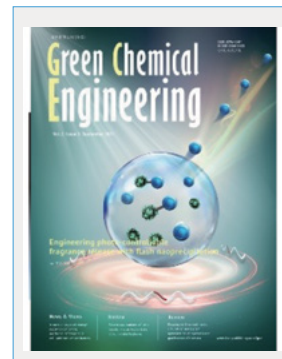
Coating and Protection



Paint & Coatings Industry



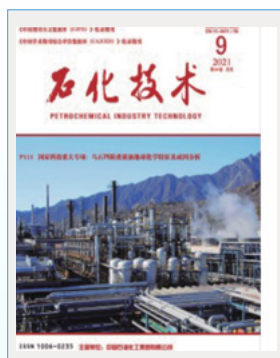
Green Energy & Environment



Green Chemical Engineering



China Synthetic Resin and Plastics



Petrochemical Industry Technology



Petroleum Processing and Petrochemicals



ACTA PETROLEI SINICA (Petrochemical Processing Section)



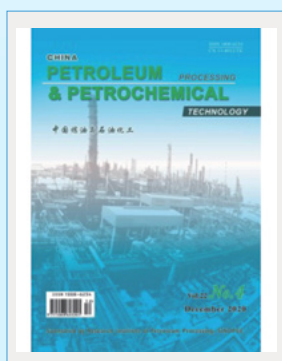
Energy Chemical Industry



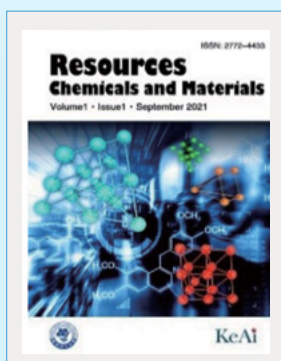
Coal Conversion



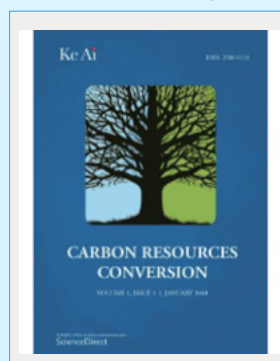
Sulfuric Acid Industry



China Petroleum Processing & Petrochemical



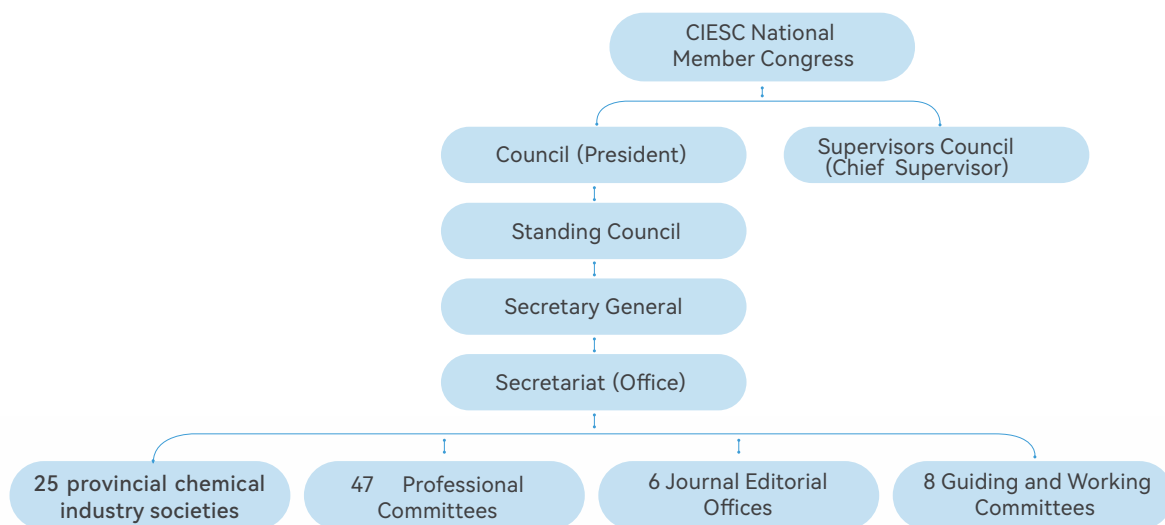
Resources Chemicals and Materials



Carbon Resources Conversion



## CIESC Organization Chart



## CIESC Committees

The professional committees under CIESC are established based on the needs of education, research, production, and application in the chemical engineering and related fields. These committees are professional branches of CIESC for conducting academic activities. CIESC's professional committees adhere to the development principles of sound organization, standardized operation, and academic democracy, and carry out activities based on the needs of disciplinary development. Currently, CIESC has 47 professional committees and 3 working committees.

### CIESC Professional Committees

No	Committee Name	Chairman of the Committee	Committee Secretary General	Tel	Email
1	Chemical Engineering	REN Zhongqi	CHENG Daojian	18611349376	chengdj@mail.buct.edu.cn
2	Petrochemical Engineering	GU Songyuan	ZHAO Peng	010-59961706	zhaop.bjhy@sinopec.com
3	Biochemical Engineering	TAN Tianwei	SU Haijia	15811138640	suhi@buct.edu.cn
4	Fine Chemical Engineering	PENG Xiaojun	FAN Jiangli	13591834856	zykzlb@sina.com
5	Coal Chemical Engineering	YANG Weimin	TENG Jiawei	021-68467713	tengjw.sshy@sinopec.com
6	Chemical Process Safety	YANG Zhe	WANG Lin	18266655777	wangl.qday@sinopec.com
7	Environmental Protection	LIU Chunping	LI Hesheng	010-59202231	Lihsh.bjhy@sinopec.com
8	Industrial Water Treatment	HAN Yongqiang	MING Yunfeng	13802170986	2068324250@qq.com
9	Chemical Machinery	HE Deqiang	ZHANG Zhiyuan	0931-7526508	457302735@qq.com
10	Chemical New Materials	LI Xiaoyu	MU Yuanchun	13426205470	2021500068@mail.buct.edu.cn
11	Inorganic Acids, Bases and Salts	ZHANG Lei	YANG Yumei	13752576212	aais-yyim@163.com
12	Chemical Fertilizer	LAI Chunbo	FAN Xuwen	021-55259520*1103	1332545975@qq.com
13	Rubber Institute	LI Gaoping	FENG Tao	010-51338149	fengtao2004@hotmail.com
14	Pesticide	LIU Changling	ZHAO Ping	024-85869187	zhaoping1@sinochem.com
15	Dyestuffs	XU Weichang	WEI Feng	13130276006	weifeng@sinochem.com
16	Coatings & Finishing	DI Zhigang	WU Xiangping	0519-83299523	Jeff@asiacoat.com



No	Committee Name	Chairman of the Committee	Committee Secretary General	Tel	Email
17	Information Technology Applications	ZHOU Min	ZHU Jie	13810361606	zhujie@sinochem.com
18	Smart Manufacturing	ZHONG Weimin	SONG Bing	15000552328	songbing@ecust.edu.cn
19	Specialty Chemicals Engineering	WEI Huazhen	ZHOU Chuanjian	13153034007	zhouchuanjian@sdu.edu.cn
20	Ionic Liquids	ZHANG Suojiang	LI Chunshan	010-82544875	csli@home.ipe.ac.cn
21	Energy Storage Engineering	ZHU Qingshan	XI Xiangli	010-64519601	Esst_edit@126.com
22	Waterborne Technology Application	HU Zhong	YU Yingying	13915091933	yuyy2@cnooc.com.cn
23	Mixing and Agitation	WANG Yundong	LIU Zuohua	023-65678932	liuzuohua@cqu.edu.cn
24	Rubber and Plastics Green Manufacturing	ZHANG Liqun	WU Weidong	18610609519	13810367675@163.com
25	Simulation & Virtual Process Engineering	GE Wei	WANG Limin	010-82544942	lmwang@ipe.ac.cn
26	Petrochemical Equipment Maintenance	XU Gang	BAI Hua	010-59964525	baih@sinopec.com
27	Supercritical Fluids	REN Qilong	BAO Zongbi	0571-87952773	baozb@zju.edu.cn
28	Sulfur, Phosphorus and Titanium Resource Chemicals	TANG Shengwei	WANG Xinlong	028-85408098	wangxl@scu.edu.cn
29	Microwave Power Application in Chemical Industry and Engineering	HUANG Kama	ZHU Huacheng	028-85470659	zhuhuacheng@126.com
30	Filtration and Separation	XU Baoyun	LIU Deli	13816472294	brand2008@163.com
31	Chemical Process Intensification	CHEN Jianfeng	DU Jinxiang	010-64519148	dujinx@sina.com
32	Thermochemistry and Engineering	XIAO Rui	ZENG Xi	010-68984449	zengxi@btbu.edu.cn
33	Petrochemical Ecological Engineering	ZHOU Yong	ZHANG Xiwen	15804112158	zhangxiwen.fshy@sinopec.com
34	Daily Chemical Products	JI Hongbing	YU Yuanbin	18858278383	sheyb@zjut.edu.cn
35	Rare Earth Catalysis and Process	DONG Lin	TANG Changjin	025-89684945	tangcj@njnu.edu.cn
36	Hydrocarbon Resources Processing and Utilization	LI Mingfeng	ZHANG Qundan	13810431636	zhangqd.ripp@sinopec.com
37	Petrochemical Archives	JIAO Xinting	HONG Yan	010-69166020	hongy.trqi@sinopec.com
38	Micro-Chemical Engineering and Technology	LUO Guangsheng	XU Jianhong	010-62781490	xujianhong@tsinghua.edu.cn
39	Molecular Recognition Separation	REN Qilong	YANG Qiwei	0571-87951224	yangqw@zju.edu.cn
40	Pharmaceutical & Chemical Engineering	ZHENG Yuguo	XUE Yaping	13819190869	xyp@zjut.cdu.cn
41	Electronic Chemicals	ZHANG Suojiang	LIU Ruixia	18518225906	rxliu@ipe.ac.cn
42	High-Purity Chemicals Process and Equipment	LI Qunsheng	LIU Dahuan	13810124701	liudh@mail.buct.edu.cn
43	Carbon Neutrality	XIE Zaiku	QI Guozhen	18201901935	qigz.sshy@sinopec.com
44	Big Data for Chemical Process towards Intelligent Design	LU Xiaohua	JI Yuanhui	13951907361	yuanhui.ji@seu.edu.cn
45	Polymerization and Polymer Engineering	WANG Yuzhong	LIU Pingwei	0571-87953745	liupingwei@zju.edu.cn
46	Silicon Energy and Chemical Engineering (Preparatory)	WEI Zhong (To be nominated)	YANG Shengchao (To be nominated)	16609932906	shengchao-yang@hotmail.com
47	Chemical Industry ESG (Preparatory)	WANG Hualin (To be nominated)	BAI Zhishan (To be nominated)	13701875789	baizs@ecust.edu.cn
CIESC Working Committees					
1	Engineering Ethics Education Committee	ZHAO Jinsong	DU Yi	13522877819	dldy@tsinghua.edu.cn
2	Women Scientists Committee	XING Weihong	LIU Yu	13645184807	liuyu@njtech.edu.cn
3	Youth Working Committee	XU Jianhong	CHEN Zhuo	18810277590	chenz2022@tsinghua.edu.cn