

CONTENT

President's Address	2
2022 CIESC Annual Work Report	4
CIESC Journals	10
Brief Introduction of CIESC	14
CIESC Organization Chart	15
CIESC Committees	16



New Year Address from the President

Dear CIESC members and friends,

With the arrival of spring, the earth is taking on a fresh look. As we bid farewell to the eventful 2022 and usher in a promising 2023, 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 all colleagues in the petroleum and chemical industry, as well as partners and friends who have all supported the development of CIESC.

2022 has been another extraordinary year. The CPC successfully convened its 20th National Congress, drawing the blueprint for building a great modern socialist country in all aspects and sounding the bugle to forge ahead in the new era and on a new journey. In such an important year for implementing the 14th Five-Year Plan, we managed to overcome the combined impact of major changes and a pandemic both unseen in a century, celebrated the centenary of CIESC and convened the 40th CIESC Congress.

During the past year, with strengthening the Party building as our primary task, CIESC has implemented the guiding principles of the 20th CPC National Congress, consolidating the Party's leadership in the chemical science community. We continued to take Party building as a driving force and made achievement in academy, popular science, SciTech service and training activities, and have made steady progress on our way towards a leading society in the energy industry.

During the past year, we held a grand ceremony to mark the centenary of CIESC, and a series of celebratory activities. We released a commemorative book of named "Building a Chemical Powerhouse", a Documentary named "Refinement", and unveiled the list of "100 Personnel in the 100 Years' History of China's Chemical Industry", celebrating its century-old history and brilliant achievements of the chemical industry and the society, and championing the entrepreneurship and spirit of our predecessors, thus delivering on our mission of building a home of chemical SciTech workers. We successfully convened the 40th CIESC Congress, and elected the new Council and Supervisory Board, further clarified the reform priorities and targets, a milestone for CIESC to build on the past achievements and strive for new progress.

During the past year, we stayed committed to the purpose of serving the Party and the country, moved faster to enhance academic exchanges and made continued efforts in raising public awareness of chemical science, with activities such as "International Olefin and Polyolefin Conference", "China Pharmaceutical and Chemical Engineering Conference", "Hou Debang Public Lectures", "Chemistry 101", "Chemistry Carnival" and "Educational Base on Chemistry" being warmly received by the public.

CIESC intensified efforts in building a high-level think tank for the chemical industry of the country, carried out green chemical SciTech service program in the "Innovation China" drive, and organized activities such as "Lushan Academician Forum for Innovation", "Academicians and Experts Visiting the Old Revolutionary Base Areas". These endeavors helped to promote the two-way integration of innovation chain and industrial chain, thus better supporting high quality social and economic development. During the past year, we delivered on President Xi's

instructions to accelerate the building of world-class hubs both for talents and innovation, enhanced mentoring and training of talents in the chemical industry, and put in place a well-designed reward and incentive system. Awards that CIESC presented such as "CIESC Fellow", "Hou Debang Chemical Science and Technology Award" and "CIESC Science and Technology Award" are carrying more weight in the chemical industry, which helps to drive frontier technology advancement and motivate scientific brains

We pushed for new breakthroughs in the "Young Elite Scientist Sponsorship Program" of CAST, organized and elected a number of national and international awards including "The Most Beautiful Sci-Tech Personnel", "China Youth Science and Technology Award", "China Female Scientist" and "Asian Outstanding Scientist and Engineer Award", giving credit to excellent talents in the chemical industry.

During the past year, CIESC reached out to integrate into the global innovation network, led the efforts in establishing CAST UN Consultative Committee on Clean Energy for Carbon Peaking and Neutrality, and made its due contribution in building a new order and new pattern in the international chemical industry.

Dedicated to building an internationalized chemical engineer training and assessment system, CIESC completed the evaluation of chemical engineers with everincreasing social credibility. We issued the Specification of Competence Evaluation of Engineers in Chemical Industry, and achieved breakthrough in mutual recognition of chemical engineering qualifications with Royal Society of Chemistry, which marked a new step forward in building an international chemical community of partnership and shared interests.

Having gone through a remarkable journey over the past century, CIESC's original aspiration remains unshakable. As the entire Party and the Chinese people of all ethnic groups are now closely rallied around the Party Central Committee with Comrade Xi Jinping at its core, fully and faithfully delivering on the guiding principles of the 20th CPC National Congress, and taking confident strides toward the Second Centenary Goal, SciTech community needs to do more to carry forward the mission of the times at such a historic juncture.

CIESC will thoroughly study and implement the guiding principles of the Report to the 20th CPC National Congress, strengthen the Party leadership, follow the right development direction, make renewed efforts in improving the organizational and governance system of the society, and boost our service capacity across the board.

We will remain committed to the principles that science and technology development must target the global science frontiers, serve the main economic battlefield, fulfill the significant needs of the country, and benefit people's lives and health. Championing openness and cooperation, CIESC will strive to serve as a platform for academic exchanges in the chemical industry and a national education base. We will build on the past while uphold innovation and strategic planning, make the most of our role as a bridge linking industries, universities and research institutes.

Putting people front and center, CIESC will work to build a system that spurs and serves the full-cycle development of chemical talents. We will ride the tide of science and industry transformation and continue to open up new areas and new arenas. CIESC stands ready to work with all chemical scientists and researchers to break new ground for the high-quality development of chemical industry in the new era and contribute more to building greater strength in science and technology for China and realizing the Chinese Dream of national rejuvenation.

What's past is prologue. As we embrace the New Year, I would like to, on behalf of the CIESC Council, extend the warmest New Year greetings to all of you. I wish health and happiness to all our members and friends. And I wish continued success and prosperity for the chemical industry and our great nation.

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



2022 CIESC Annual Work Report





The 20th National Congress of the Communist Party of China marked a milestone for 2022. Under the leadership of the Ministry of Civil Affairs and the China Association for Science and Technology (CAST), and with the strong support from all council units, members and colleagues in chemical industry, the Chemical Industry and Engineering Society of China (CIESC) stayed on the path of socialist people's organizations with Chinese characteristics and has achieved remarkable results in academic exchanges, industry-innovation integration, high-quality development of science popularization services, high-end scientific and technological think tank construction, and international scientific and technological exchanges and cooperation.

Holding centenary ceremony of CIESC

2022 is the 100th anniversary of the founding of CIESC, thus we grandly convened the "Celebration Conference of the 100th Anniversary of CIESC", released a commemorative book of named "Building a Chemical Powerhouse", produced the centennial feature film "Refinement" and unveiled the list of "100 Personnel in the 100 Years' History of China's Chemical Industry" to showcase the century-old history and brilliant achievements of China's chemical industry, as it inherited and carries forward the scientist spirit of diligence, sincerity, and dedication to the country highlighted by the elder generation of scientists and industrialists. 284 international and domestic organizations from different sectors sent congratulatory letters and telegrams, nearly 700,000 audiences watched the live broadcast of the conference. It is reported by mainstream and industry media from different platforms.





Enhancing membership cohesion

CIESC improved the training chain for talents. We sponsored 16 student chapters and encouraged college students to participate in the 16th Chemical Engineering Design Competition and the 6th Chem-E-Car Competition to improve their professional skills and comprehensive diathesis and strengthen the cultivation of reserve talents; we supported the Young Scholar Committee and the Women's Committee for Science and Technology to hold the "Yingxing Young Scholars Forum" and "Women Scientists Forum"; we also sponsored the "Young Elite Scientists Sponsorship Program" to aid them to pursue outstanding achievements in their golden age of creativity. Through the continuous enhancement of member service capabilities, we increased CIESC's attractiveness and member cohesion. The number of individual members of CIESC has exceeded 50,000, an increase of 10,000 from the previous year, and the number of member institutions has exceeded 400, an increase of 185.



CIESC ANNUAL REPORT 2022



CIESC constructed a talent training and recommendation system. We built a high-level scientific and technological think tank with crossborder integration which absorbed more than 1,000 high-level experts. CIESC also guided all divisions to build field-specific think tanks and six types of sub-tanks with more than 540 experts were completed, including Industrial Water Treatment, Coatings and Finishing, Ionic Liquids, Inorganic Acids, Bases and Salts, Petrochemical Archives, and Hydrocarbon Resources Processing and Utilization, which laid a solid foundation for decision-making and consultancy in various subdivided fields.

CIESC optimized a well-designed reward and incentive system in place. The social influence and participation of the "CIESC Fellows". "Hou Debang Chemical Science and Technology Award" and "CIESC Science and Technology Award" continued to increase in 2022. As one recommendation channel of "Young Elite Scientists Sponsorship Program by CAST," we cultivated and nominated 13 outstanding science and technology elites, which helped to cover and train more young talents. We completed the selection of the 4th "International Award for Outstanding Young Chemical Engineer", and 3 international outstanding engineers were granted the award. We further expanded the recommendation channels as we completed the nomination and selection for "The Most Beautiful Sci-Tech Personnel", "China Youth Science and Technology Award", "China Female Scientist", the Ministry of Education and the nomination for 2022 "Asian Outstanding Researcher and Engineer Award" and etc.

Strengthening the platform construction of academic exchange

We hosted more than 80 events including diverse forums, lectures, training programs, and welfare activities. With the aim of building outstanding brands events, we held the 1st"China Pharmaceutical and Chemical Engineering Conference" and the 1st "Annual Conference of Microchemical Engineering Technology" conforming to the trend of science and technology. In 2022, 11 outstanding academic conferences were collected into the "Guidelines to the Important Academic Conferences" released by CAST.

CIESC strived to leading chemical engineering workers to improve scientific literacy. We hosted 10 sessions of "Hou Debang Public Lectures" and invited renowned academicians and experts to carry out cutting-edge science and technology lectures in chemical engineering and related fields, with the total number of more than 30,000 audience.



CIESC kept promoting the construction of firstclass sci-tech journals as we strengthened the guidance and services to CIESC branches sponsoring 30 sci-tech periodicals. We published Special Issue of State Key Laboratory of Chemical Engineering, Special Issue of Carbon Neutralization Technology in Chemical Industry, Special Issue of Excellent International Young Scientists in

Energy Storage, and Special Issue of Chemical Industry and Energy Storage to showcase the frontier development directions in various fields: we also compiled Advanced Chemical Materials Key Technology Series and Digital and Intelligent Transformation of Petrochemical Industry to beef up academic guidance and discipline construction in chemical industry.



Improving capabilities of decision-making and consultancy

With much emphasis placed on major scientific problems, CIESC provided decision-making consultancy on key issues related to chemical industry and regional development. We organized the collection of major scientific problems, engineering problems and industrial problems in chemical industry while the topic "Extracting Helium from Low-grade Helium-containing Natural Gas" submitted to CAST was selected for Top 10 Frontier Scientific Issues of 2022; we served the regional industrial economy, supported the key activities of the 24th Annual Meeting of CAST, completed the special investigation of "Research on Countermeasures for Transformation and Upgrading of Petrochemical Industry in Hunan"; we were concerned to the security of the industry chain and supply chain of chemical industry, and proposed the project "Research on Risks and Countermeasures of the Industrial Chain and Supply Chain of New Materials in Chemical Industry"; we promoted the project selection of key areas of chemical engineering, published the "Chemical Process Intensification Series" and "Key Technologies of Advanced Chemical Materials (Second edition)" jointly with Chemical Industry Press, boosted the deep integration of chemical and materials disciplines, precisely helped the science and technology innovation.





Elevating brand propagation of science popularization

The first batch of 12 CIESC Science Popularization Bases carried out a variety of activities, such as scientific and technological training, popular science lectures, and technical guidance for remote and underdeveloped areas. 3 entities including the "State Key Laboratory of Effective Utilization of Chemical Resources (Beijing University of Chemical Technology)" recommended by CIESC were listed as the National Science popularization Education Base 2021-2025" by CAST.

CIESC organized a series of science popularization activities of "First Class of Chemical Engineering 2022" with 18,000 teachers and students from more than 100 top colleges and universities participated. The program introduced "What is Chemical Engineering" and "What does Chemical Engineering do", which enabled first-grade bachelor students to deeply feel the charm of chemical industry and realize the important role of chemical industry in the national economy. The event aimed to guide young students to join in the chemical industry field, which promotes the cultivation of technology reserve talents.







CIESC Committee of Micro-Chemical Engineering and Technology produced a science popularization video around Pressure Swing Adsorption (PSA) technology, which was widely spread through various channels such as the National Science Popularization Day, WeChat Official Accounts, etc. The Committee of Coatings & Finishing launched the science popularization activity "Powder School" for 7 sessions and 14 experts were invited to report online. This work further raised the public's awareness of powder coatings and helped the green development of China's coating industry.

In 2022, CIESC was awarded the "2022 Excellent Academy Unit for Science Popularization within National Societies" initiated by CAST.

Promoting the integration of technology and economy

During the past year, CIESC focused on the construction of "Innovation China", continuously expanded the breadth and depth of the integration of innovation and industrial, supported the high-quality development of the regional industrial economy.

In 2022, we carried out the "Innovation China" green chemical industry technology service project and offered technological services focusing on key industries in the pilot cities of "Innovation China" including Changsha, Hengyang, Lanzhou New Area in Gansu Province, Bayingolin Mongol Autonomous Prefecture, Heze, and Puyang.

Based on the actual situation and demand of the local industrial development, we organized academicians and experts to conduct in-depth investigation and research at the basic level to ease difficulties, and successfully carried out a series of activities including "2022 China New Chemical Materials Forum (Yueyang)", "Pooling Industrial Chain Intelligence, Revitalizing Dabie Mountain" CIESC academicians visiting Huanggang Revolutionary Base, and Lushan Academician Forum for Innovation to introduce scientific and technological talents as well as innovative achievements to the needy places, which promoted the two-way integration of the innovation and the industrial chain to better support high quality social and economic development.





Exploring the public science & technology services

CIESC carried out high-quality scientific and technological public services such as the formulation of industry standards, and the evaluation of scientific and technological achievements. In 2022, we approved and issued 24 association standards, approved 10

project standards, and completed more than 10 evaluation projects of scientific and technological achievements. We steadily promoted competency assessment for chemical engineers that 7 principal senior engineers, 30 associate senior engineers, and 30 engineers were certificated in 2022. CIESC made a new breakthrough in the international mutual recognition of chemical engineering qualifications as we have jointly

signed a memorandum of understanding on mutual recognition and cooperation of engineers with Royal Society of Chemistry (RSC), reaching a consensus on the pilot work of substantive and equal mutual recognition. Our science and technology public services and social credibility have been continuously enhanced to a new level.

Deepening international exchanges and cooperation

In 2022, CIESC has made further progress in participating in global governance of science and technology and promoting the construction of an international talent team. Appointed by CAST, we established CAST UN Consultative Committee on Clean Energy for Carbon Peaking and Neutrality, requested for hosting side events of the "Clean Energy Ministerial Conference", and organized experts to participate in the 27th "United Nations Climate Change Conference (COP 27)". CIESC accelerated the internationalization of the teams of engineers. We took the lead in the establishment of the Culture and Ethics Committee of the Chinese Society of Engineers (CSE) and developed the "CIESC Code of Ethics for China Engineers" based on benchmarking relevant international norms. We responded to the nomination of the examiners of the CSE, and 8 examiners passed the certification. We formulated and issued the Specification of Competence Assessment for Chemical Engineers, completed the equivalent standard, process, and procedure of engineers' competency with the assessment of RSC, and signed the International Mutual Recognition of chemical engineering qualifications with UK.





CIESC improved the global science and technology partnership network. We stayed in close contact with international organizations such as World Chemical Engineering Council (WCEC), Asian Pacific Confederation of Chemical Engineering (APCChE), European Federation of Chemical Engineering (EFCE), and the American Institute of Chemical Engineers (AIChE) and etc. We participated in WCEC Council Meeting, APCChE Board Meeting and well prepared for the satellite conference of 2023 World Congress of Chemical Engineering (WCCE 11). Each year we release the English version of the "CIESC Annual Work Report" to enhance our international profile and international communication.



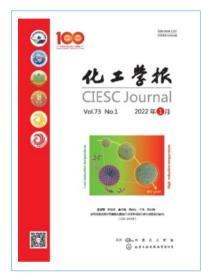
Standing at the new starting point of the centuryage society, CIESC shoulders a more glorious and greater historical mission. Under the leadership of CIESC Council Board, we will continue to unite chemical scientists and technologists, forge ahead, and strive to make greater contributions to the prosperity of chemical science and technology.





CIESC Journals

CIESC Journa



Founded in 1923, CIESC Journal is a monthly magazine. It mainly publishes original academic papers in chemical industry and related interdisciplinary fields, representing the basic and applied research level of China.

http://www.hgxb.com.cn

ISSN

0438-1157

II-I946/TQ

CN

Chemical Industry and Engineering Progress



Founded in 1981, Chemical Industry and Engineering Progress is a monthly magazine. It focuses on scientific research, technology and industry, reflects the latest achievements and trends of chemical industry in China and abroad, introduces new technologies, disseminates chemical knowledge to promote the progress of chemical science and technology.

http://www.hgjz.com.cn

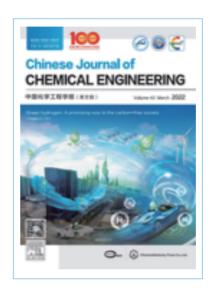
ISSN

1000-6613

II-I954/TQ

CN

Chinese Journal of Chemical Engineering (English Edition)



Founded in 1982, The Chinese Journal of Chemical Engineering is a monthly journal. The aim of the journal is to develop the international exchange of scientific and technical information in the field of chemical engineering. It publishes original research papers that cover the major advancements and achievements in chemical engineering in China as well as some articles from overseas contributors.

http://www.cjche.com.cn

ISSI

1004-9541

II-3270/TQ

CN

Energy Storage Science and Technology



Founded in 2012, Energy Storage Science and Technology is a bimonthly journal. It focuses on energy storage industry in academic research, technology application, industry trend and etc.

http://www.energystorage-journal.com

ISSN

2095-4239

10-1076/TK









Journals Sponsored by CIESC Professional Committees



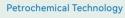












Fine Chemicals

Chemical Reaction Engineering and Technology

Safety Health & Environment

Environmental Protection of Chemical Industry













Industrial Water Treatment Chemical Engineering & New Chemical Materials

Inorganic Chemicals Industry

Fertilizer & Health













Agrochemicals











Dyestuffs and Coloration

Coating and Protection Paint & Coatings Industry

Green Energy & Environment

Engineering







Petrochemical Industry Technology



Petroleum Processing and Petrochemicals



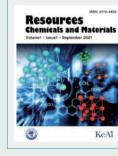
Petroleum Processing China Petroleum Processing & Section Petrochemical Technology













China Rubber Industry Tire Industry Rubber Science and Syngas Technology

Energy Chemical Industry

Coal Conversion

Sulphuric Acid Industry

Resources Chemicals and Materials

Carbon Resources Conversion



Brief Introduction of CIESC

ANNUAL REPORT 2022



CIESC Organization Chart

ANNUAL REPORT 2022



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General Introduction

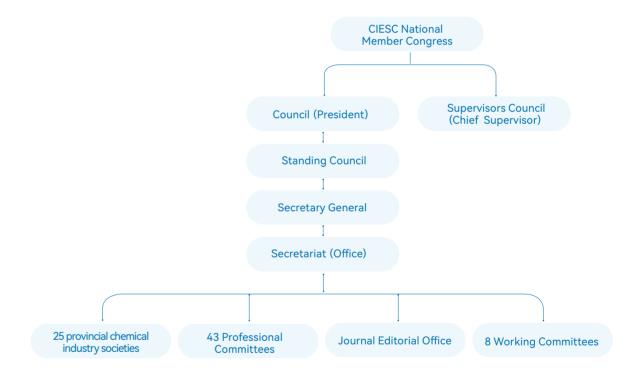
The Chemical Industry and Engineering Society of China (CIESC), founded on April 23, 1922, is a national academic non-profit social organization, affiliated to the Chinese Association for Science and Technology (CAST).

CIESC has been working on progress and development of chemical science and technology in China. By the end of 2022, over 400 units and more than 40,000 individuals registered as CIESC's members. CIESC has 8 working committees and 43 professional committees.

CIESC sponsors 4 academic journals: CIESC Journal, Chemical Industry and Engineering Progress, Chinese Journal of Chemical Engineering (English Edition) and Energy Storage Science and Technology.

CIESC is one council member of the World Chemical Engineering Council (WCEC), one board member of the Pacific Asian Confederation of Chemical Engineering (APCChE) and institutional member of the European Federation of Chemical Engineering (EFCE). CIESC has extensive contacts with international academic organizations, and has established bilateral and multilateral exchanges and cooperation with more than 10 international organizations, such as the American Institute of Chemical Engineers (AIChE), The Society of Chemical Engineers, Japan (SCEJ), Gesellschaft für Chemische Technik und Biotechnologie. e.V. (DECHEMA), The Institution of Chemical Engineers (IChemE) and Korean Institute of Chemical Engineers (KIChE).

In order to promote domestic and international academic exchanges and development on chemical science and technology, and to support the growth of chemical science and technology talents, CIESC will continue to do great effort on academic exchanges, socialized public service, scientific popularization, think tank consultation, discipline construction, talent recommendation and international cooperation.













CIESC ANNUAL REPORT 2022





□ CIESC Working Committees:

Academic Working Committee

International Cooperation Working Committee

Continuing Education on Science Popularization Working Committee

Organizational Working Committee

Editorial Working Committee

Engineering Ethics Education Committee

Women Scientists Committee

Youth Working Committee



CIESC Professional Committees

CIESC professional committees are established in accordance with the development needs of academic, research, application and production in chemical industry and related fields. The professional committees are under the leadership and management of CIESC without legal qualification. There are 43 professional committees by the end of 2022.

No	Committee Name	Committee Secretary General	Tel	Email
1	Agricultural Chemicals	ZHAO Ping	024-86859187	zhaoping1@sinochem.com
2	Biochemical Engineering	WU Zhenyi	010-62311037	wzy@263.net
3	Carbon Neutrality	QI Guozhen	18201901935	qigz.sshy@sinopec.com
4	Chemical Engineering	CHEN Xiaochun	010-64429057	chenxc@mail.buct.edu.cn
5	Chemical Fertilizer	LIU Hong	021-52803605	Sh62736666@163.com
6	Chemical Machinery	ZHANG Zhiyuan	0931-7526508	457302735@qq.com
7	Chemical New Materials	MU Yuanchun	13426205470	2021500068@mail.buct.edu.cn
8	Chemical Process Intensification	DU Jinxiang	010-64519148	dujinx@sina.com
9	Chemical Process Safety	ZHANG Shucai	0532-83786653	zhangsc.qday@sinopec.com
10	Coal Chemical Engineering	TENG Jiawei	021-68467713	tengjw.sshy@sinopec.com
11	Coatings & Finishing	WU Xiangping	0519-83299523	Jeff@asiacoat.com
12	Daily Chemical Products	JI Hongbing	13600450733	jihb@mail.sysu.edu.cn
13	Dyestuffs	WANG Ying	024-85869219	wangying3@sinochem.com

Electronic Chemicals					ı
Energy Storage Engineering	No	Committee Name	Committee Secretary General	Tel	Email
Environmental Protection Li Hesheng 010-59202231 Lihsh.bjhy@sinopec.com	14	Electronic Chemicals	LIU Ruixia	18518225906	rxliu@ipe.ac.cn
Filtration and Separation WANG Shiyong 021-52815377-0415 wsy023@163.com Fine Chemical Engineering FAN Jiangli 13591834856 zykjzlb@sina.com High-Purity Chemicals Process and Equipment LIU Dahuan 13810124701 liudh@mail.buct.edu.cn High-Purity Chemicals Process and Equipment LIU Dahuan 13810431636 zhangd.ripp@sinopec.com High-Purity Chemicals Processing and Utilization ZHANG Qundan 13810431636 zhangd.ripp@sinopec.com	15	Energy Storage Engineering	XI Xiangli	010-64519601	Esst_edit@126.com
Fine Chemical Engineering FAN Jiangli 13591834856 zykjzlb@sina.com	16	Environmental Protection	LI Hesheng	010-59202231	Lihsh.bjhy@sinopec.com
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Micro-Chemical Engineering and Technology 26 Microwave Power Application in Chemical Industry and Engineering 27 Mixing and Agitation 28 Molecular Recognition Separation 29 Petrochemical Archives 20 Petrochemical Ecological Engineering 30 Petrochemical Ecological Engineering 31 Petrochemical Equipment Maintenance 32 Petrochemical Equipment Maintenance 33 Pharmaceutical & Chemical Engineering 34 Rare Earth Catalysis and Process 55 Rubber and Plastics Green Manufacturing 36 Rubber Institute 50 FENG Tao 51 Simulation & Virtual Process Engineering 52 Separation 53 Smart Manufacturing 54 Separation 55 Simulation & Virtual Process Engineering 56 Separation 57 Simulation & Virtual Process Engineering 58 Smart Manufacturing 59 Specialty Chemicals Enology and Tannon Disposition Process 50 Suffur, Phosphorus and Titanium Resource Chemicals 50 Suffur, Phosphorus and Titanium Resource Chemicals Engineering 58 WANG Xinlong 59 Suffur, Phosphorus and Titanium Resource Chemicals Engineering 50 WANG Xinlong 50 Suffur, Phosphorus and Titanium Resource Chemicals 51 Supercritical Fluids 52 BAO Zongbi 53 WANG Kangjun 54 Supercritical Fluids 54 Supercritical Fluids 55 BAO Zongbi 56 Suffur, Phosphorus and Titanium Resource Chemicals 57 Suffur, Phosphorus and Titanium Resource Chemicals 58 WANG Kangjun 59 Thermochemistry and Engineering 50 WANG Kangjun 50 WANG Kangjun 50 WANG Kangjun 50 WANG VALViervier 50 WANG VALVi	23	Inorganic Acids, Bases and	YANG Yumei	022-26689023	aais-yym@163.com
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42 Engineering WANG Kangjun 13940559792 angle_79@163.com Waterborne Technology 12015001033	41	Supercritical Fluids	BAO Zongbi	0571-87952773	baozb@zju.edu.cn
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