

Celebrating the 60th Anniversary of Institute of Chemistry, Chinese Academy of Sciences

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Received August 29, 2016; accepted August 31, 2016; published online September 12, 2016

Citation: Zhang D, Wang D. Celebrating the 60th Anniversary of Institute of Chemistry, Chinese Academy of Sciences. *Sci China Chem*, 2016, 59: 1229–1230, doi: 10.1007/s11426-016-0352-0

Institute of Chemistry, Chinese Academy of Sciences (ICCAS) was established in 1956. ICCAS is a multi-disciplinary research institute dedicated to the basic research in broad fields of chemical sciences, and to the key development of the innovative high-technology aiming at the imperative national needs and important strategic targets, as well as to the collaborative high-technology applications and transfers. With the development of 60 years, ICCAS has become one of the leading chemistry institutions in China with high international visibility.

ICCAS's major research areas include polymer science, physical chemistry, organic chemistry, analytical chemistry, and inorganic chemistry. The institute focuses on the following fields: the frontiers of molecular and nano sciences, organic and polymeric materials, chemical biology, as well as energy and green chemistry. Since 2011, ICCAS has been implementing the "135" strategic development plan, which includes three breakthrough areas and five emerging areas. The three breakthrough areas are: i) molecular self-assembly and optoelectronic materials as well as device applications, ii) surface/interface functional materials and green-/nano-printing technology, and iii) high-performance polymers. ICCAS plans to further strengthen researches in the following five emerging areas: i) green carbon science and selective synthesis, ii) environmental molecular science,

iii) energy storage and conversion with chemical approaches, iv) chemical imaging and analytical chemistry for living bio-systems, and v) stimuli-responsive and bio-active materials.

For celebrating the 60th Anniversary of Institute of Chemistry, we organized this special issue. This special issue, including 18 Research Articles and Reviews, summarizes the most recent accomplishments of ICCAS researchers in the above research areas. The publication of this ICCAS special issue will provide not only an opportunity to allow our colleagues to introduce their recent research progress to the broad scientific community but also an incentive for further scientific collaborations between our colleagues and other researchers in the respective areas. We would like to thank Prof. Li-Jun Wan and his colleagues from the editorial office of *Science China Chemistry* very much for their efforts on this special issue.

ICCAS aims to make further research progress in basic sciences and related technologies. By integrating efforts of our faculties, administrative and supporting teams, and our graduate students and postdoctoral scholars, ICCAS will continuously make great contributions to promote sustaining development in molecular science and related areas.

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Prof. Deqing Zhang studied chemistry in Beijing Normal University from 1983 to 1987. He then joined Institute of Chemistry, Chinese Academy of Sciences (ICCAS) as a graduate student and obtained his M.S. in Organic Chemistry in 1990. He received his Doctor's degree (DR. RER. NAT.) from Ruprecht-Karls University Heidelberg in 1996. He is now a research professor in ICCAS and the director of the Institute. His research interest includes the development of external stimuli-responsive molecular systems for molecular switches, logic gates and chemical/bio-sensors. He also shows interest in design and synthesis of organic functional materials and organic nanoassemblies.



Prof. Dujin Wang received his B.S. in 1989 and M.S. in 1992 from Shandong University, and Ph.D. degree in 1995 from Peking University. After postdoctoral research at Institute of Chemistry, Chinese Academy of Sciences (ICCAS) with Prof. Duanfu Xu, he joined ICCAS in 1997 first as an associate professor and was promoted to full professor in 2000. He received the China Association for Instrumental and Analysis (CAIA) Awards (First Grade) in 2001 and 2006, the Science and Technology Progress Awards of Beijing Municipal (First Grade) in 2001 and 2009. He was elected as executive deputy director of Polymer Division of Chinese Chemical Society in 2011. In 2016, he was elected as the Fellow of Royal Society of Chemistry. His research interest includes polymer crystallization, processing and composites.