



Department of Chemistry

香港城市大學
City University of Hong Kong

Special Departmental Seminar

By

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***Functionalized Carbon Nanohoops for
Supramolecular Applications***



Date: 4 August 2026 (Tuesday)

Time: 3:30 pm – 4:30 pm

**Venue: G5-315 (Green Zone, 5th Floor)
Yeung Kin Man Academic Building
City University of Hong Kong**



For abstract, please refer to the attached sheet.

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~ All Are Welcome ~

Abstract

Cycloparaphenylenes (CPPs) are a new class of organic conjugated macrocycles that have attracted tremendous attention because of their cyclic conjugated structures, radially oriented π -electron systems, size-dependent physicochemical properties, and host–guest interactions. Replacing a phenylene unit in a cycloparaphenylene ring with a non-benzenoid aromatic building block not only provides an efficient strategy for constructing novel conjugated carbon nanohoops but also represents one of the most effective approaches for tuning their optoelectronic properties.

Our research group has focused on the development of functionalized carbon nanohoops through the incorporation of various functional units into cycloparaphenylenes. We have investigated their applications in supramolecular self-assembly, topological chirality, and (chiral) luminescent materials, greatly expanding the application scope of conjugated carbon macrocycles and providing new insights into the development of novel (chiral) luminescent carbon materials. In this presentation, we will discuss the design, properties, and applications of these new carbon nanohoops.

Biography



Jiang Hua is a Beijing Normal University Distinguished Professor, Ph.D. supervisor, and former Director of the Key Laboratory of Radiopharmaceuticals of the Ministry of Education at Beijing Normal University. He graduated from Hubei University in 1991 and remained there as a faculty member until 1995. He received his M.S. degree in Organic Chemistry from the Department of Chemistry at Wuhan University in 1998 and earned his Ph.D. in Organic Chemistry from the Institute of Chemistry, Chinese Academy of Sciences, in June 2001. From 2001 to 2006, he conducted postdoctoral research successively in France and the United States, at the European Institute of Chemistry and Biology and the University of Notre Dame, respectively. He joined the Institute of Chemistry, Chinese Academy of Sciences, in 2006 and moved to Beijing Normal University in 2013, where he has been serving ever since.

Professor Jiang's research has been supported by several prestigious funding programs, including the Chinese Academy of Sciences' Hundred Talents Program, the National Science Fund of China for Distinguished Young Scholars, and the National Basic Research Program of China (973 Program). His research focuses on the design and construction of functional supramolecular systems, particularly foldamers, molecular machines, and nanocarbons, with a special emphasis on carbon nanohoops. He has published more than 130 SCI-indexed papers in leading international journals, including *Science*, and holds four authorized patents.