

英国利物浦大学化学系 Iggo 博士学术报告

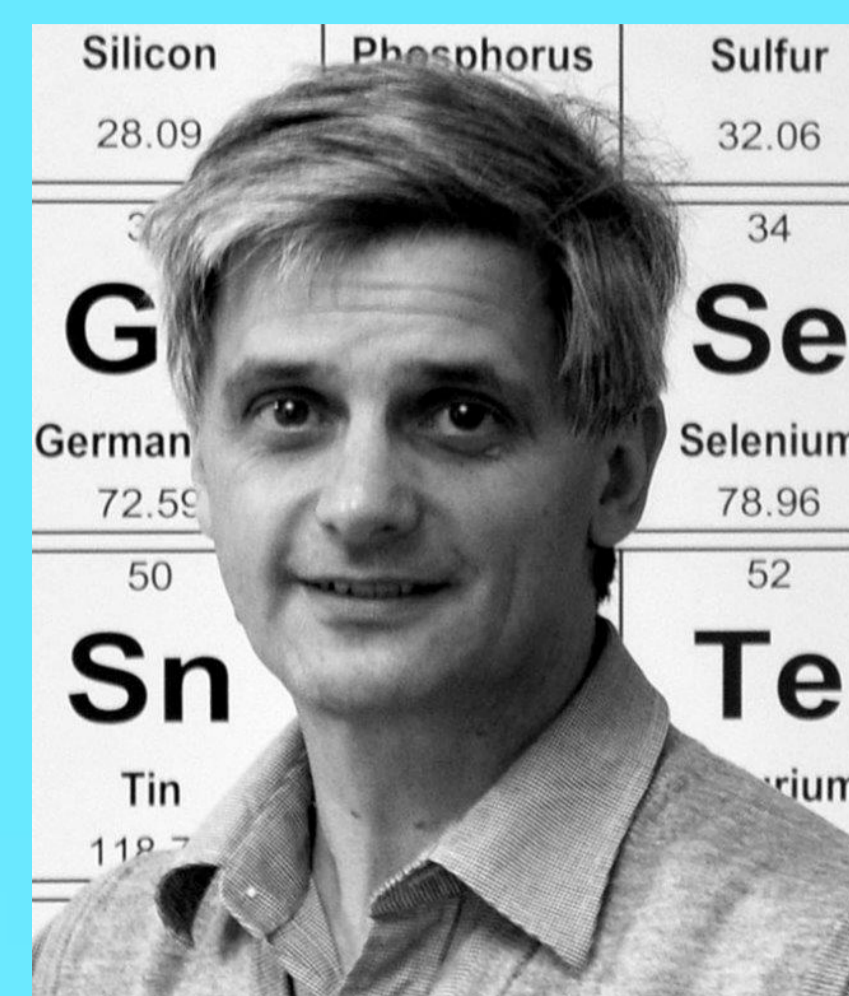
报告题目: Mechanistic Development of the Lucite ALPHA Process and other Pd-diphosphine Catalyzed Methoxycarbonylations

时间: 9月4日 (星期一) 下午 14:30-16:30

地点: 中心会议室

主讲人: Jonathan Iggo Ph.D Senior Lecturer

Department of Chemistry, University of Liverpool



主讲人介绍:

Dr. Iggo completed his PhD with Dr Martin Mays at the University of Cambridge, U.K. and a postdoc with Prof Bernard Shaw at the University of Leeds, Dr. Iggo joined the faculty at the Queens University of Belfast as a lecturer before moving to the University of Liverpool. With Prof. Heaton, he set up the Liverpool high pressure spectroscopy group. Dr Iggo's research interests are focused on *in* and *ex situ* and *in operando* studies of mechanism in organometallic catalysis. He developed the world's first, practicable, NMR system for studying working organometallic catalysts where one or more substrate is a gas and was closely involved in the development of the Lucite ALPHA Process for methyl methacrylate. Iggo also works with Prof. Jianliang Xiao on understanding the mechanism of asymmetric hydrogens and transfer hydrogenations.

报告摘要:

The Lucite ALPHA process for the manufacture of methyl methacrylate (MMA) uses radically different chemistry from the conventional acetone cyanohydrin (ACH) process. Commercialization of the process was critically dependent on improvements in catalyst lifetime. Identification of the reaction intermediates, resting states and catalyst decay processes by Iggo, Heaton, and Whyman provided crucial direction in the development of the process and the adoption of counter-intuitive process conditions. This resulted in the successful commercialization of this new process. This lecture will describe this and related mechanistic work.

欢迎各位参加!

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