



香港浸會大學  
HONG KONG BAPTIST UNIVERSITY

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Creativity



香港浸會大學理學院  
HKBU Faculty of Science  
Department of Chemistry

**DISTINGUISHED CHINESE VISITING SCHOLAR  
LECTURESHIP PROGRAM**

# Enhanced Catalysis by Nano Confinements



## Prof. Bao Xinhe

- Academician of Chinese Academy of Sciences
- President of Shenyang Branch of Chinese Academy of Sciences

**Date: 17 March 2014 (Mon)**

**Time: 11:00 a.m.**

**Venue: Room 909**

**Cha Chi-ming Science Tower**

**Ho Sin Hang Campus**

**Hong Kong Baptist University**

**\*All Interested are Welcome\***

**Sponsored by Hung Hin Shiu Charitable Foundation**

# Speaker's Biography



## Prof. Bao Xinhe

- ✧ **Academician of Chinese Academy of Sciences**
- ✧ **President of Shenyang Branch of Chinese Academy of Sciences**

Prof. Bao Xinhe received his PhD in Physical Chemistry from Fudan University in 1987 and then worked as a Fellow of Alexander von Humboldt in Fritz-Haber Institute of Max-Planck Society in Berlin/Germany. He became a full Professor of the Dalian Institute of Chemical Physics (DICP, CAS) in China in 1995 and the group leader of Nano & Interface Catalysis at the State Key Laboratory of Catalysis later. He held the position of the institute director from 2000 to 2007, and was appointed the President of Shenyang Branch of the Chinese Academy of Sciences in 2009.

Bao is a member of Chinese Academy of Sciences, a member of the Academy of Sciences for the Developing World (TWAS) and a fellow of the Royal Society of Chemistry (UK). He is currently the vice President of Chemical Society of China and the President of Chinese Society of Catalysis. Bao is a co-editor-in-chief of Journal of Energy Chemistry (JEC, Elsevier). His name is listed in the editorial board or international advisory board of several international scientific journals, including Angew. Chem. Int. Ed., Energy & Env. Sci., Chem. Sci., Surf. Sci. Report, ChemCatChem, ChemPhysChem, Surf. Sci. and etc.

His research focuses mainly on the fundamental understanding of catalysis, and its application to the development of new catalysts and catalytic processes related to energy conversion, in particular clean coal and natural gas utilization. His achievements in catalysis of nanoporous materials, nano-structured carbon materials and nano-sized oxide particles, as well as in the fundamental researches of understanding the nano-confined catalysis have been well recognized in the community worldwide. BAO has published more than 450 scientific papers and 1 book (Elsevier) with a citation over 8000 times, and filed 75 patents. He was awarded the prizes of National Natural Science Award (second Class, 2005) and HLHL Prize (Hong Kong, 2012).

## 包信和 中国科学院院士

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包信和，男，汉族，1959生于江苏省。理学博士，研究员，博士生导师。1987年获复旦大学理学博士学位；1987-1989年在复旦大学化学系任教；1989-1995年获洪堡基金资助在德国马普协会柏林FRITZ-HABER研究所进行合作研究；1995年至今，在中科院大连化学物理研究所工作，现任所学术委员会主任，催化基础国家重点实验室研究员，博士生导师，中国科学院研究生院教授；2000年8月至2007年2月，任中国科学院大连化学物理研究所所长；2009年3月至今任中国科学院沈阳分院院长；2009年当选为中国科学院院士。



包信和研究员主要从事表面化学与催化基础和应用研究。发现次表层氧对金属银催化选择氧化的增强效应，揭示了次表层结构对表面催化的调变规律，制备出具有独特低温活性和选择性的纳米催化剂，解决了重整氢气中微量CO造成燃料电池电极中毒失活的难题。发现了纳米催化体系的协同限域效应，研制成碳管限域的纳米金属铁催化剂和纳米Rh-Mn催化剂，使催化合成气转化的效率成倍提高。在甲烷活化方面，以分子氧为氧化剂，实现了甲烷在80℃条件下直接高效氧化为甲醇的反应；创制了Mo/MCM-22催化剂，使甲烷直接芳构化制苯的单程收率大幅度提高。

包信和研究员发表论文322余篇，申报国际、国内专利51件。1995年获国家杰出青年基金资助，为1996-2000年度香港求是“杰出青年学者奖”获得者，2005年获得国家自然科学基金二等奖。现任国家重点基础研究规划（973）专家顾问组成员；中科院-BP“面向未来的清洁能源”项目中方首席科学家；任J. Natural Gas Chem. 主编，《科学通报》执行副主编，《催化学报》、《化学物理学报》和《物理化学学报》副主编，以及Surf. Sci.、Appl. Catal. A等13个国际、国内杂志编委；第二十六、二十七届中国化学会常务理事。

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