For favour of posting

The Chinese University of Hong Kong
Department of Chemistry

Research Seminar Series

（普通話主講）

Speaker: 佟振合院士
中國科學院
理化技術研究所

Title: 太陽能光分解水

Date: November 5, 2015 (Thursday)

Time: 2:30 p.m.

Venue: Room G06
Y.C. Liang Hall (潤昌堂)

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Contact Person:
Prof. Zuowei Xie

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The Chinese University of Hong Kong
Department of Chemistry
Research Seminar Series

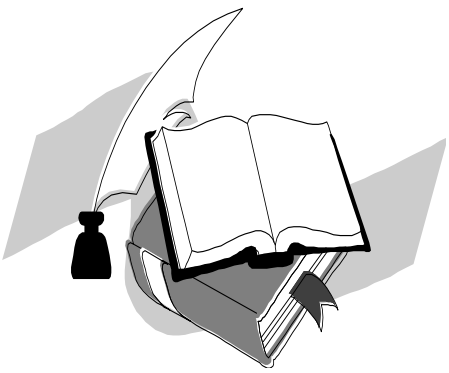
Speaker: Prof. Qilin Zhou
Dean, College of Chemistry
Nankai University

Title: Catalytic Asymmetric Carbene Insertions into Heteroatom—Hydrogen Bonds

Date: November 23, 2015 (Monday)

Time: 4:30 p.m.

Venue: L2
Science Centre



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Contact Person:
Prof. Zuowei Xie

For favour of posting

The Chinese University of Hong Kong
Department of Chemistry
Research Seminar Series

Speaker: Prof. Liu Lei
Department of Chemistry
Tsinghua University

Title: Studies on chemical protein synthesis

<< ***Abstract*** >>

Proteins are fascinating organic molecules. Not every protein can be obtained biologically. Synthetic chemistry provides a supplementary approach for the production of proteins. This method expands our exploration of chemistry of life and drug development. In the talk I wish to present our studies in this area.

Date: November 26, 2015 (Thursday)

Time: 4:30 p.m.

Venue: Room G06
Y.C. Liang Hall (潤昌堂)

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Contact Person:
Prof. Jiang Xia

For favour of posting

Revised

The Chinese University of Hong Kong
Department of Chemistry
Research Seminar Series

Speaker: Prof. Shihe Yang
Department of Chemistry
The Hong Kong University of Science and Technology

Title: Chemistry-enabled Nanostructures and Interfaces for Sustainable Solar Energy Conversion

<< Abstract >>

Chemistry is experiencing a paradigm shift to embrace functions emerging from complexity such as nanostructured materials, interfaces, etc. In this talk, I will highlight some of our recent results in understanding, interfacing and assembling different solution-processed processed nanomaterials for efficient solar energy conversion. First, I will focus on the design and construction of mesoscopic photoelectrodes, semiconductor quantum structures, donor-acceptor molecules, metallo-organic halide films for sensitized solar cells and especially the most recently rising perovskite solar cells. Power conversion efficiency (PCE) of over 15% can now be readily obtained with low-cost materials and processes by judiciously designing the nanostructures and interfaces.

Second, I will discuss our recent developments of various nanostructures and their combinations for solar fuel generation devices, including nanostructured catalysts, photocatalysts, photoelectrochemical electrodes and light harvesters. One of the current challenges in engineering solar energy conversion devices is to understand the component nanostructure - function relationship, akin to the bond-property relationship but at a higher level.

Date: November 27, 2015 (Friday)

Time: 2:30 p.m.

Venue: LT
William M W Mong Engineering Building (蒙民偉工程學大樓)
(The entrance is at 9th floor, right next to the footbridge)

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Contact Person:
Prof. Jiang Xia