

Distinguished Lecture Series

From Molecular Design To Control of Supramolecular Assembly, Nanostructures and Functional Properties for Energy, Materials and Biomedical Applications



20 June 2022 (Monday)

2:30 - 4:00 p.m. GMT+8 (Hong Kong Time)



Dr. Hari Harilela Lecture Theatre (WLB103),
 The Wing Lung Bank Building for
 Business Studies, Shaw Campus;
 and online via Zoom

(The webinar details will only be provided to registrants)



ABSTRACT

The constant search for materials with new and improved properties has led to a variety of investigations into molecular materials and a growing interest in the exploration of molecular-based functional materials research. Molecular functional materials are made up of molecules that could perform a specific function or task at the molecular level. This increasing interest in the search for new molecular materials based on pure organic and metal-organic systems mainly stems from the versatility of materials development through rational design studies and elucidation of the structure-property relationship at the molecular level. Organic and metal-organic molecules can serve as versatile building blocks for molecular-based functional materials as they can be rationally engineered and prepared, and their properties are tunable with a proper understanding of structure-property relationships. In this presentation, a number of metal-ligand chromophoric complexes, coordination compounds and molecules will be described. Through rational design and various strategies, these molecular materials may find potential applications and functions as efficient triplet emitters for small-molecule and solution-processable organic optoelectronics, and as materials for memories, chemosensing and biological assays.

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Prof. Yam obtained both her BSc (Hons) and PhD from The University of Hong Kong, and is currently the Philip Wong Wilson Wong Professor in Chemistry and Energy and Chair Professor of Chemistry at The University of Hong Kong. She was elected to Member of Chinese Academy of Sciences, International Member (Foreign Associate) of US National Academy of Sciences, Foreign Member of Academia Europaea, Fellow of TWAS and Founding Member of Hong Kong Academy of Sciences. She was Laureate of the 2011 L'Oréal-UNESCO For Women in Science Award. She has received a number of awards, including the Josef Michl ACS Award in Photochemistry, RSC Centenary Medal, RSC Ludwig Mond Award, Porter Medal, JPA Eikohsha Award, JSCC International Award, State Natural Science Award, CCS-China Petroleum & Chemical Corporation (Sinopec) Chemistry Contribution Prize, CCS Huang Yao-Zeng Organometallic Chemistry Award, etc. Her research interests include inorganic/organometallic chemistry, supramolecular chemistry, photophysics and photochemistry, and metal-based molecular functional materials for sensing, organic optoelectronics and energy research.



Registration

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