

先導物質化学研究所講演会

講師：Professor Cheuk-Lam Ho (Hong Kong Baptist University)

演題：Synthesis, Characterization and Applications of Functional Materials for Energy Conversion

日時：2015年2月13日(金) 15:30~17:30

場所：先導物質化学研究所(筑紫地区) 南棟112講義室

abstract

Since the quality of our life depends to a large extent on the availability of energy, the energy crisis problem will pose a great threat to us for the foreseeable future and energy is and will certainly remain one of the great challenges for the world. It is critically essential to find alternative forms of renewable energy sources. Currently, people are talking about renewable energy in various scientific disciplines around the world and these terms are frequently brought to wide public attention. There is great interest in developing renewable resources and improving the technologies for energy interconversions. The transformations of light into electricity (electrical energy generation in photovoltaic cells) and electricity into light (light generation in light-emitting diodes) are two important interrelated areas that have attracted considerable research interest in recent years. Functional organometallic and organic molecules have become a field of intense activities in the optoelectronic research. They hold great promise for use in energy interconversions. The chemical and physical properties of such functional materials can be easily fine-tuned simply by varying its chemical structures to develop the best materials to fit a particular energy conversion application. This lecture presents a critical perspective of the field, with emphasis on fundamental concepts and current applications.

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