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International Summit on

# **CONVENTIONAL & SUSTAINABLE ENERGIES**

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## Michael K H Leung

City University of Hong Kong, Hong kong

### Functional nanomaterials for sustainable energy

Advanced energy conversion and storage technologies, including fuel cell, metal-air and metal-sulfur batteries, solar photovoltaics and photocatalysis, etc., are shaping the future of sustainable energy. The development of functional nanomaterials plays a crucial role as core driving force for the revolution of these technologies. Present active research efforts aim to achieve scientific breakthrough via (1) engineering intrinsic properties, such as bandgap, charge carrier mobility, charge and spin density distribution etc., and (2) increasing active sites, including morphology control, preferred crystalline facet control, increasing specific surface area, etc. In this presentation, the speaker will discuss the latest development and future trend of nano-photocatalysts and carbon-based electrode materials for various applications towards sustainable energy.

#### Biography

Michael K H Leung is a Professor and Associate Dean in the School of Energy and Environment at the City University of Hong Kong. He is also the Director of Ability R&D Energy Research Centre at CityU. His research interests include solar photocatalysis, fuel-cell electrochemistry and advanced refrigeration. He has published 130+ journal papers, 70+ conference papers, 15 books/book chapters, and 6 patents. He is listed as a highly cited scholar in Energy Science and Engineering by ShanghaiRanking and Elsevier.

mkh.leung@cityu.edu.hk

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