

JOINT EVENT

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&
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From liquid-flow window to solar-absorbing facade

The demands on green building development are increasing year by year and all over the world. Traditionally, exterior facade is one crucial element in building architecture. Nowadays, it has escalating importance in the building services role owing to its significant influence on the engineering system performance and energy use. While window glazing is widely used in modern architecture, its weak thermal performance often leads to increased air-conditioning load and electricity consumption. For this reason, many innovative window glazing technologies have been evolving in the last decade. The liquid-flow window technology as an example has undergone rapid developments in recent years. Together with the related research and development activities on the opaque walling, the spirit in their full-integration gives the unique concept of solar-absorbing facade. The development trend in the last decades will be briefly reviewed in this presentation. Then the insight and new contribution from our research team in this aspect will be elaborated, together with the experimental findings and numerical analysis.

Biography

Tin Tai Chow received his PhD from the University of Strathclyde, UK. He is currently the Associated Professor and Director of the Building Energy and Environmental Technology Research Unit at the City University of Hong Kong. He has many scholarly publications, including 135 SCI journal articles and with Web of Sc citations >4,500 and h-index at 38. He has been serving as member of many journal editorial boards, such as the Journal of Building Performance Simulation. He also contributes to many reputable international conferences as committee members and invited speakers. He holds fellow membership in many professional institutions, such as FASHRAE and FCIBSE.

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