

可見光光催化塗層技術研討會

Visible Light Photo-Catalyst Coating Technology Seminar

日期 Date: 13 October 2017 (Friday)
2017年10月13日(星期五)
時間 Time: 2:30 pm – 4:30 pm
下午2時半至4時半
地點 Venue: Room 120, HKPC Building,
78 Tat Chee Avenue, Kowloon, Hong Kong
香港九龍塘達之路78號生產力大樓120號室

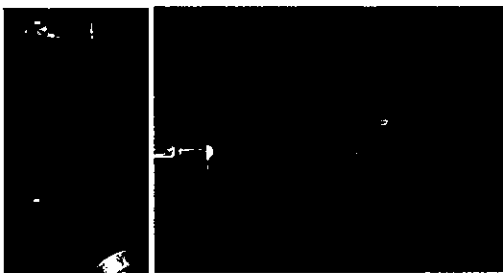
費用全免
Free of Charge
人數: 30人
Target number of Audience: 30

Background:

Environmental cleanliness and public hygiene in public indoor environments, such as transportation system and hospitals, are issues of the highest priority in metropolitan cities like Hong Kong. Currently, one of the approaches for air pollutant removal and surface disinfection is the deposition of a photo-catalyst coating (PCC). A widely adopted photoactive material is titanium dioxide (in anatase phase) which is well known for its photo-catalytic oxidation and surface disinfection effect upon the exposure to a specific range of UV light. However, the intensity of UV light in ordinary indoor conditions is not high enough to activate titanium dioxide unless an external UV source is present. An upconversion (UC) that emits UV light upon an absorption of sufficient visible light offers an alternative to the solution. The development a PCC that combines titanium dioxide and an UC material offers a promising approach of air pollutant removal and surface disinfection in ordinary indoor environment.

背景:

在大城市如香港，尤其是公共交通系統及醫院內，公共衛生和環境清潔永遠是不容忽視的問題。目前，沉積光催化塗層(PCC)是其中一種用作潔淨空氣中污染物和表面消毒的方案。二氧化鈦(銳礦鈦)是一種備受廣泛採用的光敏材料，當它受到特定波長的紫外光照射，它就會產生光催化氧化和抗微生物的效果。然而，除非有外來紫外光源，否則一般室內照明下的紫外光強度都不足以激發二氧化鈦，而能吸收可見光繼而發射紫外光的上轉換材料則有望可解決上述問題，繼而發展出一種結合二氧化鈦和上轉換材料的光催化塗層，並在一般室內環境發揮潔淨空氣中污染物和表面消毒的功用。



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Funding Organization



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香港表面處理學會
Hong Kong Surface
Finishing Society

All-round Productivity Partner
全方位企業伙伴



詳細內容 Seminar Programme

時間 Time	程序 Programme
14:30 – 14:45	接待及登記 Registration
14:45 – 15:30	介紹先進表面塗層技術及其用途 Introduction of Advanced Surface Coating Technology & Application 盧偉賢博士 (高級顧問) 香港生產力促進局 Dr. Wai Yin LO (Senior Consultant) Hong Kong Productivity Council
15:30-16:15	可見光光催化抗菌塗層技術及其用途 Visible Light Photo-Catalytic Anti-microbial Coating Technology& Application 鄭穎怡小姐 (助理顧問) 香港生產力促進局 Candy CHENG (Associate Consultant) Hong Kong Productivity Council 張智敏先生 (助理工程師) 香港生產力促進局 Anson CHEUNG (Assistant Engineer) Hong Kong Productivity Council
16:15-16:30	Q&A

備註：主辦機構保留權利可更改調動論壇題目、內容及講者而不須先行通知。

Note: The organizer reserves the right to alter the topic / content / speaker of the forum programme without prior notice.

免責聲明 Disclaimer

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