



香港中文大學理學院  
**FACULTY OF SCIENCE**  
THE CHINESE UNIVERSITY OF HONG KONG



SCIENCE FACULTY 60<sup>TH</sup> ANNIVERSARY

# DREAMWEAVERS

ALUMNI SCIENTIST PUBLIC LECTURE

**物質科學 Physical Science Session**

**9 Dec 2023 (Sat) - 2:30 - 4:30pm**

LT1B, Cheng Yu Tung Building, CUHK

廣東話主講 In Cantonese

座位有限，先到先得 Seats are limited; first come, first served



## 環保科技新未來 - 向塑膠時代說不 Green Tech to Replace Plastics

于紹龍 先生  
ÖKOSIX創辦人

Mr. YU Siu Lung Eddie  
Founder of ÖKOSIX



## 材料化學：探索創新與事業發展的基石 Materials Chemistry: Exploring the Building Blocks of Innovation and Career Development

陳家朗 博士  
中大化學系

Dr. CHAN Ka Long Donald  
Department of Chemistry, CUHK



免費講座 Free Admission  
網上報名 Online Registration  
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## 環保科技新未來 - 向塑膠時代說不 Green Tech to Replace Plastics

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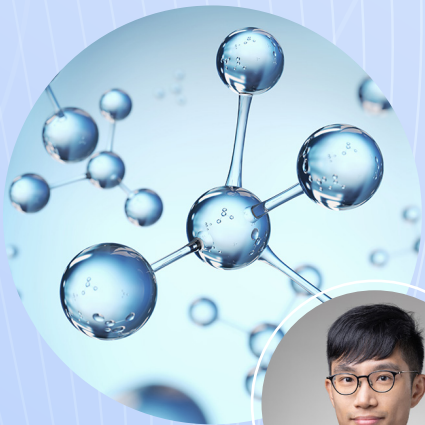
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面對塑膠污染的嚴峻問題及其對環境的影響，我們發明了可持續（可生物降解和可堆肥）及多功能的ÖKOMER。結合納米技術和其他加工技術，ÖKOMER能夠在製造業中取代塑料，並為各個產業帶來好處。我們的目標是製定「用完即棄產品」的新標準，可被自然微生物分解，並在其生命結束後6個月內回歸自然，實現真正的循環經濟。我們的技術將促進各領域的創新應用，從醫療（例如醫療服、口罩和傷口護墊等）和個人護理（例如美容面膜、尿片和衛生巾）到衛生用品等。

在講座中也會討論我們的綠色材料如何實現環保製造，以建設一個可持續的未來。只要我們齊心協力，就能作出改變，為世界帶來創新技術並同時促進環境保護。

Facing the critical issue of plastic pollution and its detrimental impact on our environment, we invented ÖKOMER which is sustainable (biodegradable and compostable) and multi-functional. Combined with nano-technology and other processing techniques, ÖKOMER is able to replace plastics in manufacturing and revolutionize various industries. Our goal is to set a new standard of "disposable products" which can be decomposed by natural microbes and return to nature within 6 months at the end of their lives, realising a real circular economy. Our technological breakthroughs will facilitate innovative applications in diverse sectors, from medical (e.g. medical gowns, masks and dressings etc) and personal care (e.g. beauty facial masks, diapers and sanitary pads) to hygiene and beyond.

Furthermore, I will discuss how our green materials can enable Environmentally Responsible Manufacturing and pave the way for a more sustainable future. Together, we can make a difference and create a world where environmental preservation and innovation go hand in hand.



## 材料化學：探索創新與事業發展的基石 Materials Chemistry: Exploring the Building Blocks of Innovation and Career Development

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材料化學是一個令人著迷的領域，它是創新的基石，並提供了許多就業機會，從而帶來職業發展和成就。材料化學家可以利用原子和分子的相互作用來製造特製的材料，從而為產業帶來革命性的改變並推動技術進步。

是次講座會探討材料化學的世界，並著重在兩個重要領域：聚合物和納米材料。聚合物是大分子，具有很強的通用性以及可以被廣泛應用。它們常見於我們日常生活的各個方面，包括包裝材料到生物醫學設備。同時，納米材料在納米尺度上具有獨特的性能。它們在電子、醫學和能源儲存領域具有巨大的應用潛力。

在講座中，我們將重點介紹材料化學家的工作以及他們對社區的影響。透過在分子層面上對材料的理解，材料化學家帶來了突破性的創新，提高了我們的生活品質並為世界帶來了重大貢獻。

Materials chemistry is a fascinating field that unveils the building blocks of innovation and unlocks numerous exciting career opportunities, leading to professional growth and achievement. Materials chemists can manipulate the interactions of atoms and molecules to create materials with tailored properties, revolutionizing industries and driving technological advancements.

This lecture explores the amazing world of materials chemistry, focusing on two important areas: polymers and nanomaterials. Polymers are large molecules with great versatility and wide-ranging applications. They are commonly found in various aspects of our daily lives, from packaging materials to biomedical devices. Meanwhile, nanomaterials possess unique properties at the nanoscale. They hold immense potential for applications in electronics, medicine, and energy storage.

Throughout the lecture, we will highlight the impressive work of materials chemists and the impact they have made on the community. Through their understanding of materials at the molecular level, materials chemists have driven groundbreaking innovations, enhancing our quality of life and shaping the modern world.