

New challenges of carbon-free energy based on photoelectrochemistry

Date and time : April 16 (Tue), 2024, 16:00-17:30

Place : Room 6-204-02, Building 6, Hokkaido University

Kuan-Jiuh Lin

Director of iSNR Center, Chairman Lifetime Distinguished Professor, Chair of
Department of Chemistry, National Chung Hsing University

Working towards a Net-Zero Green Campus

Abstract: To create a viable pathway to success for “Taiwan's 2050 net-zero emissions pathway”, what can we do in Research-Development-Demonstration for innovative clean energy solutions to climate change and sustainability that can bring values to NCHU as a green campus?



Duen-Yau Chuang

Professor, Department of Chemistry, National Chung Hsing University

Blue Carbon—Algae Boosting Net-zero Value-added Technology

Biological capture of CO₂ using algae through photosynthesis has emerged as an attractive strategy for carbon sequestration. In this talk, we will show our plan towards the breakthrough of high photosynthesis rate in algae for improved anthropogenic CO₂ conversion, which can lead to an informed climate mitigation strategy to catch up with the global trend of carbon neutrality.



Wen-Yin Ko

Associate Researcher, iSNR Center and Department of Chemistry, National Chung Hsing University

Nanostructured Materials as Electrodes for Energy Storage Devices



Shin-Chwen Yeh

PhD candidate, Department of Chemistry, National Chung Hsing University

Navigating a Photocatalyst with Entire UV-visible-near IR absorption for Efficient Green Hydrogen Generation



主催：北海道大学理学研究院化学部門
共催：公益社団法人日本化学会北海道支部
物質科学フロンティアを開拓する Ambitious リーダー育成プログラム
スマート物質科学を拓くアンビシャスプログラム
フロンティア化学教育研究センター