



# 2022「中技社科技獎學金」

## 2022 CTCI Foundation Science and Technology Scholarship

### 境外生生活助學金

Living Grant for International Graduate Students



## Multi-electron Redox-active Cathode Material for High-performance Lithium-ion Battery and Post-lithium-ion Batteries

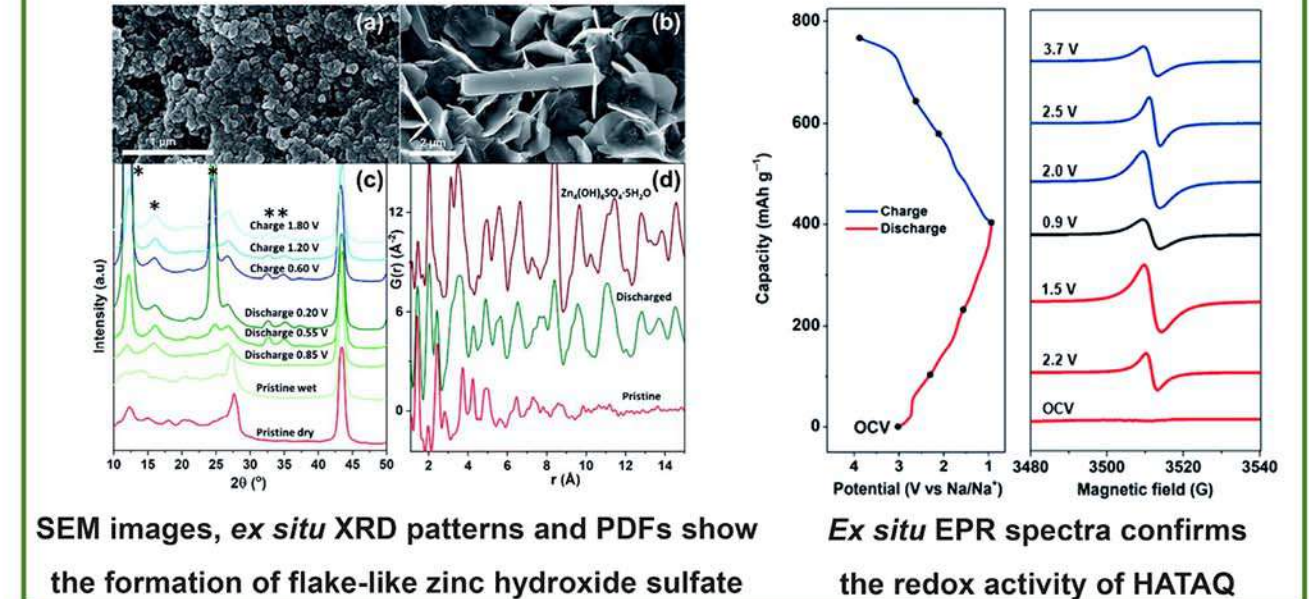
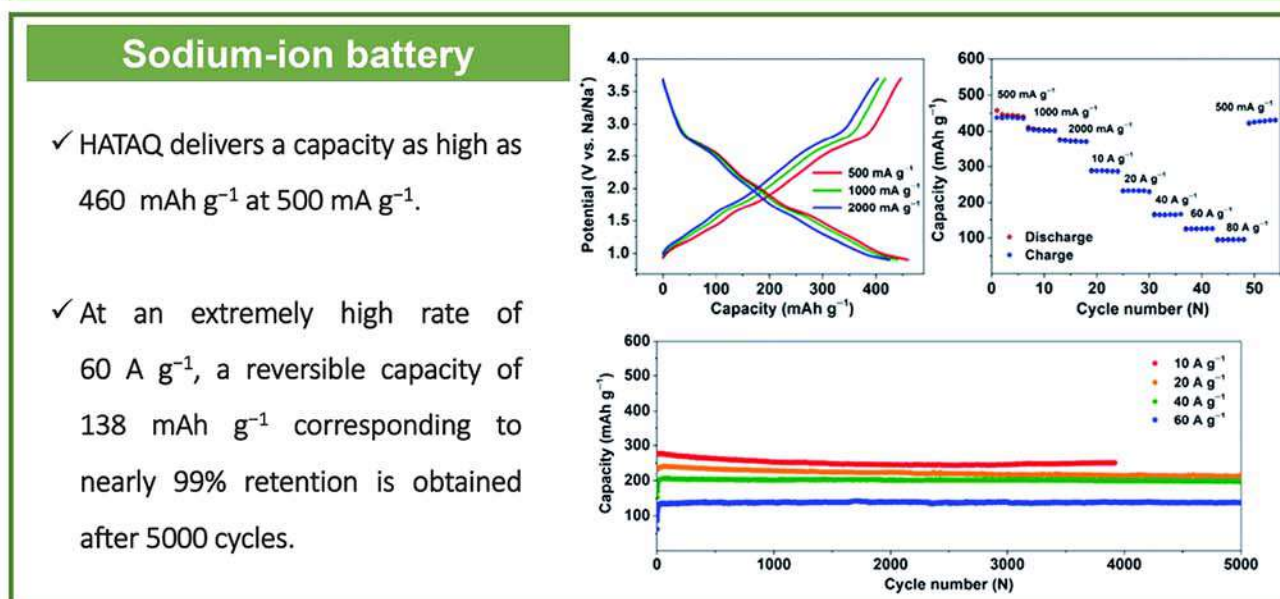
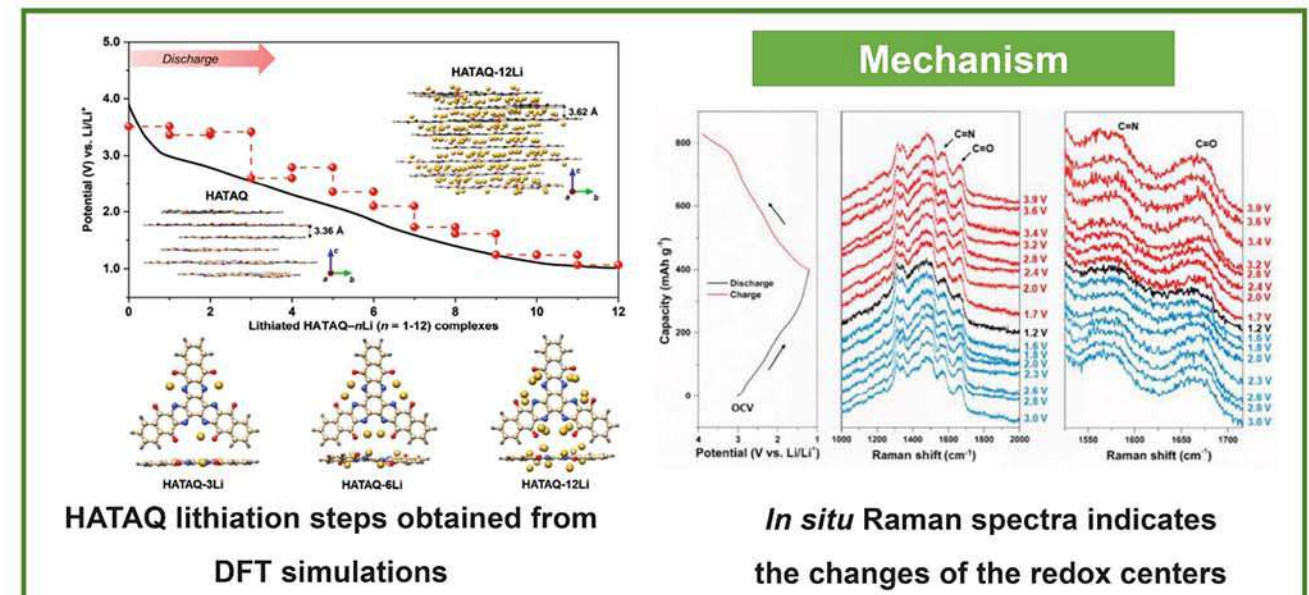
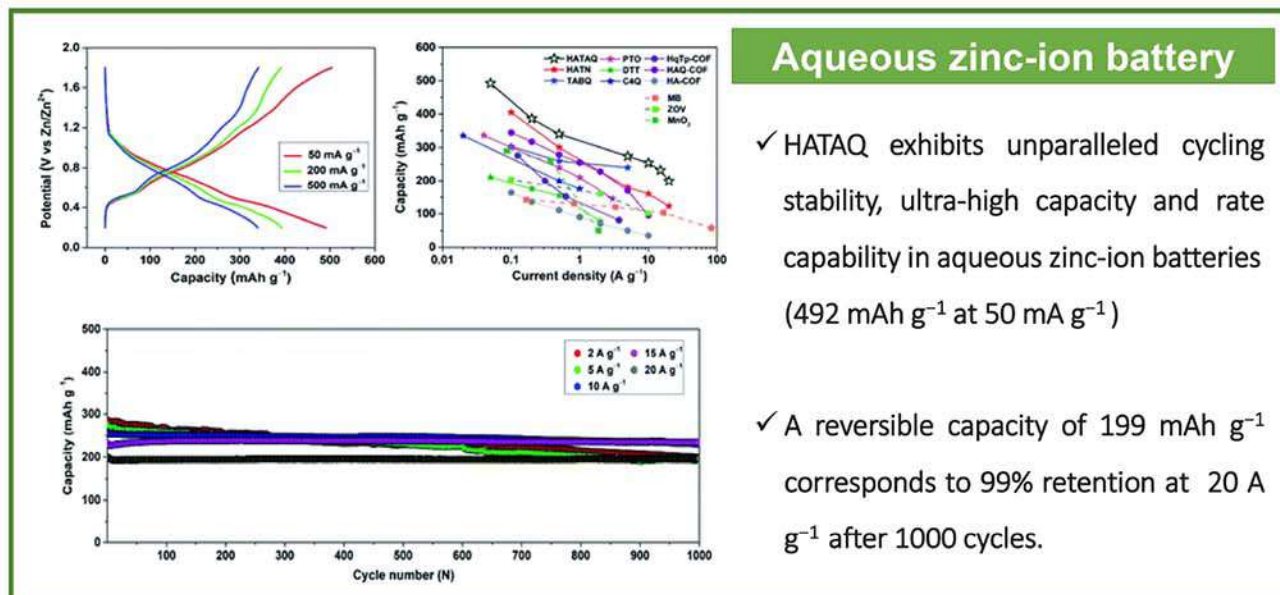
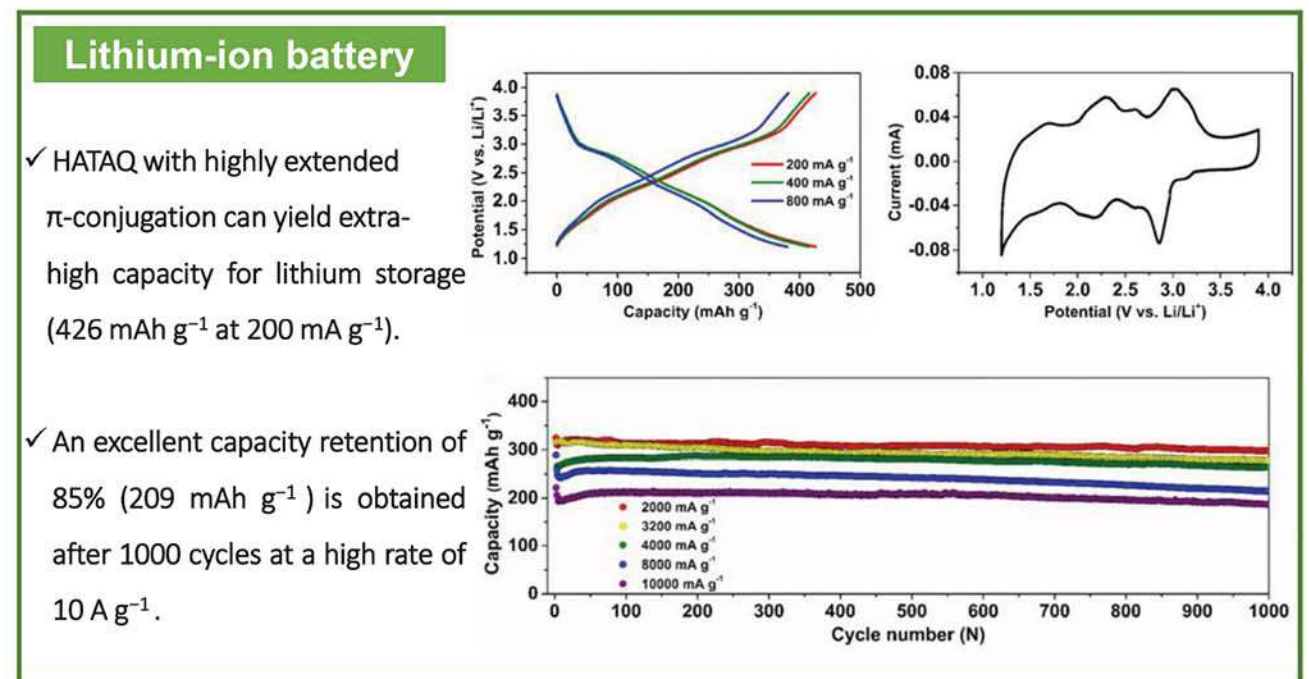
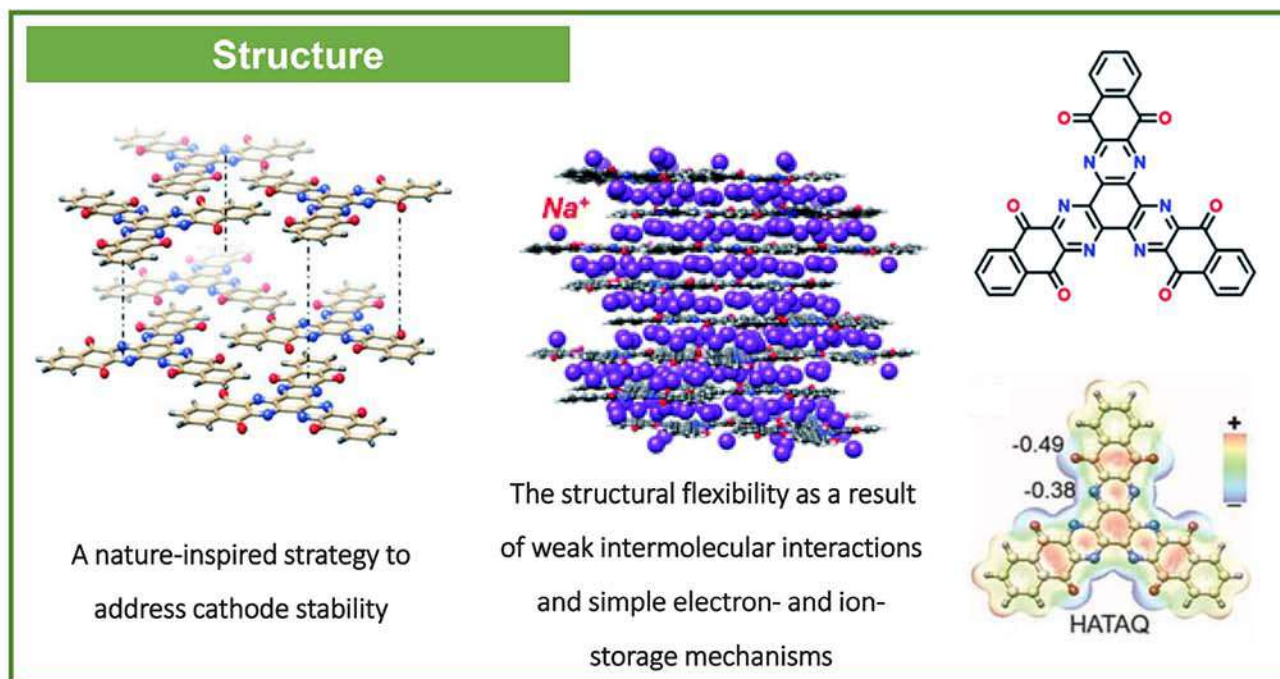


Luu Thi Huynh Nhu, Teng-Hao Chen, and Watchareeya Kaveevivitchai

Department of Chemical Engineering, National Cheng Kung University, Tainan City, Taiwan

### Introduction

- ✓ Organic electrode materials offer flexible structural design features, high capacity and sustainable production.
- ✓ Our molecular design strategy combined with mechanistic and structural insights is expected have high-performance small-molecule-based organic cathode materials.
- ✓ A unique network of unconventional lock-key hydrogen bonds in the solid-state facilitates favorable supramolecular 2D layered arrangement, enhancing cycling stability.



財團法人中技社  
CTCI FOUNDATION