國立清華大學第 24 屆新進人員研究獎得獎人簡介

Dr. Ho-Hsiu Chou was born in Taichung, Taiwan in 1983. He received his bachelor's degree and in the Chemistry Department in 2005 from National Tsing Hua University. After undergraduate studies he then studied for master one year and further PhD degrees in the Chemistry Department at National Tsing Hua University under the supervision of Prof. Chien-Hong Cheng, working on the synthesis of the organic light-emitting materials and the devices fabrication. He was awarded his Ph.D. in 2010 and continued to the Chemistry Department at National Tsing Hua University as a postdoctoral researcher for his R＆D alternative services, working on the synthesis of conjugated polymer for organic photovoltaics. During this period, he also served as a visiting researcher at the Interuniversity Microelectronics Center (IMEC) in Belgium in 2013, for developing the high thermal stable organic light-emitting displays. Afterwards, he worked as a postdoctoral researcher in Chemical Engineering Department at Stanford University from 2013 to 2016 under the supervision of Prof. Zhenan Bao. Whilst there he was working on the stretchable materials and electronics, and electronic skin sensors. In Feb. 2017, he decided to relocate back to his alma mater, National Tsing Hua University, as an assistant professor in the Department of Chemical Engineering as an Assistant Professor. Currently, his research interests are the synthesis of organic semiconductors (polymers, small moleculars, organometallics, covalent organic frameworks) for use in artificial photosynthesis (photocatalytic hydrogen evolution, ammonia synthesis, CO_2 photoreduction) and electronic skin (stretchable and self-healing materials, and artificial synapse). He received the award of Ta-You Wu Memorial Award (2021), Outstanding Young Polymer Technology Award, The Polymer Society (2020), Future Technology Award from MOST (2020), and MOST Young Scholar Fellowship (2018)

周鶴修博士於 2005 年清華大學取得化學學士學位，之後於清華大學所修讀碩士並逕讀博士學位，師從鄭建鴻教授，研習有機發光二極體材料的合成與其元件開發，並於 2010 年取得化學博士學位。博士班畢業後，於清華大學服研發替代役，期間與工研院材化所合作，研究共軛高分子之合成與有機太陽能電池之技術。並至比利時校際微電子中心(IMEC)擔任訪問學者，開發高熱穩定性之白光有機發光二極體顯示器。2013 年服役結束後前往美國 Stanford University 化工系擔任博士後研究員，為 Zhenan Bao 教授所指導，研究方向為可伸縮高分子與電子皮膚感測元件技術。於 2017 年 2 月應聘為母校清華大學化工系助理教授，並於 2020 年 8 月升等為副教授。學術研究專長領域包括前瞻有機半導體合成（高分子、小分子、有機金屬、共價有機骨架）、並用於人工光合（太陽光催化產氫，氨氣合成、CO_2 光還原）作為永續能源之研究，以及用於電子皮膚（可伸縮電子、自修復材料、人工突觸）之研究。周鶴修博士近年獲得獎項有科技部吳大猷先生紀念獎(2021)、中華民國高分子學會傑出高分子青年科技獎(2020)、科技部未來科技獎（2020）、MOST Young Scholar Fellowship (2018)。