

國立清華大學第 9 屆傑出產學研究獎得獎人簡介



化學工程學系 劉英麟教授

劉英麟教授現任教於國立清華大學化工系，主要研究興趣包括高分子化學與合成、奈米混成材料與複合材料、薄膜分離技術等。透過建立化學反應途徑以及材料結構-性質間的關聯，對應用端的製程以及性質/性能需求，提供解決的方法。其一例為建立表面/界面改質和性質調控的平台，提供原子等級/奈米級表面官能化的技術，於生物分離、5G 印刷電路板、3D 列印樹脂、電子元件散熱膠、抗靜電高分子薄膜、耐高壓絕緣樹脂等，完成產學合作以及具體成果。另一方面，基於結構設計和化學合成平台，在高性能樹脂、官能性高分子、特用化學品等領域，也呈現具體的產業技術開發成果。此外，劉教授也積極投入跨領域研究的團隊，在教育部 RSC 研發計畫、校級產學聯合研究中心、國科會產學大聯盟計畫、國防科技學研中心等，投注心力。劉英麟教授為英國皇家化學會會士，曾獲國科會傑出研究獎以及吳大猷先生紀念獎，並曾擔任亞洲-大洋洲薄膜學會會長，研究成果具高引用和影響力。

Dr. Ying-Ling Liu is Professor of Department of Chemical Engineering, National Tsing Hua University, Taiwan. His main research interests include polymer chemistry/synthesis, nanohybrids and nanocomposites, and polymeric membranes for separations and energy devices. Based on the chemical synthesis and understanding the structure-property relationship, Professor Liu's group builds up a platform of surface/interface modification for property modulation. The techniques on atomic level and nanoscale functionalization provides solutions to the problems from various fields, such as bio-separation, 5G communication, 3D printing, thermal module, antistatic plastics, resins for high voltage motors. Moreover, they also focus on the developments of high performance and functional polymers for next generation applications. Professor Liu devotes himself much to interdisciplinary collaboration and engages in

university research centers and government-industrial co-supported projects. He was elected as Fellow of the Royal Chemistry Society, UK (2016) and served as President of Aseanian Membrane Society (2022-2021).