



## 簡歷

蘇威年為台灣科技大學應用科技研究所副教授，並擔任研發處技轉中心主任。研究領域包括能源奈米材料與電化學系統，包括電催化觸媒、儲能電池材料、與鈣鈦礦太陽能電池。蘇威年獲德國斯徒加(Stuttgart)大學工程碩士(Diplm. Ing)，後取得英國羅芙堡大學(Loughborough)博士。目前發表SCI論文約82篇，Google Scholar 引文數超過3000次、H指數27。另有國內外專利發明13件。

Wei-Nien Su is an associate professor at the Institute of Applied Science and Technology of the Taiwan University of Science and Technology and currently serves as the director of the Technology Transfer Center of the R&D Department. His research interests include energy nanomaterials and electrochemical systems, including electrocatalysts, energy storage materials, and perovskite solar cells. W.N. Su received his Master of Engineering (Diplm. Ing) from the University of Stuttgart, Germany, and later received his Ph.D. from Loughborough University in the UK. He has published more than 82 SCI papers and 13 patents. The number of his Google Scholar citations exceeds 3,000 with the H index of 27.

講題: 非碳載體與觸媒以及其交互作用探討

Pt/C 雖為常見的觸媒，但仍有其缺陷。在發展替代的觸媒中，載體的角色受到較少的關注。過去一段時間中，我們嘗試發展以二氧化鈦( $\text{TiO}_2$ )為基礎的非碳載體，同時對於觸媒-載體的交互作用現象，及其在觸媒催化活性與耐久性的影響，進行研究。演講將重點介紹相關的系列工作，歡迎母系師長與同學指教。

Title: Non-carbonaceous support materials and electrocatalysts and their interactions

Although Pt/C is a typical catalyst in applications, there are still several concerns. In the quest of searching for alternative catalysts, the role of the support material has received less attention. During the course of developing novel catalyst materials, we have developed non-carbonaceous oxide support based on titanium dioxide ( $\text{TiO}_2$ ). The induced interaction of between catalyst and oxide support has attracted our attention and the utilization of the aforementioned effect has demonstrated strong influences on the catalytic activity and durability. The progress of our related works will be presented in this talk.