

## 7.4.4-Evidence 1- Special Research Project of the Ministry of Science and Technology

### (科技部專題研究計畫)

Year (年 度)	College (學院)	Department (系所)	Professor (教師)	Project name (計畫名稱)	Start date (起始日)	End date (結束日)	NT dollars (新台幣)
2020	College of environment and resources (環資學院)	Department of Chemical Engineering (化工系)	Su, Chia-Hung (蘇家弘)	能源昆蟲於塑膠減廢與能源生產之應用 Biodiesel production from plastic-eating insects	109/08/01	110/07/31	837,000
2020	College of environment and resources (環資學院)	Department of Chemical Engineering (化工系)	Yang, Chun-chen (楊純誠)	新世代具高能量與高安全性的全固態鋰電池開發(2/2) Development of New Generation All Solid-state Lithium Battery with High Energy Density and Safety(2/2)	109/01/01	109/12/31	5,000,000
2020	College of environment and resources (環資學院)	Department of Chemical Engineering (化工系)	Yang, Chun-chen (楊純誠)	使用不同反應器開發合成高能量密度高鎳鎳鈷鋁(NCA)陰極材料及組成全電池與電性分析檢測(2/3) Using different types of reactors to synthesize high-nickel content nickel cobalt aluminum oxide (NCA) cathode material and assembly full cell plus electrochemical performance investigation(2/3)	109/08/01	110/07/31	1,053,000
2020	College of environment and resources (環資學院)	Department of Materials Engineering (材料系)	Chen, Sheng-Chi (陳勝吉)	高性能無機 p 型氧化物薄膜在鈣鈦礦太陽能電池電洞傳輸層應用之研究 Study of high-performance inorganic p-type oxide films in application as the hole transporting layer in perovskite solar cells	109/08/01	110/07/31	1,522,000

2020	College of environment and resources (環資學院)	Department of Materials Engineering (材料系)	Chen, Chih-Ping (陳志平)	有機分子設計、合成及其應用為添加劑於高性能鈣鈦礦太陽能電池之機理研究(2/2) Design and synthesis of organic molecules as additives for high performance perovskite solar cells(2/2)	109/08/01	110/07/31	2,153,200
2020	College of environment and resources (環資學院)	Department of Materials Engineering (材料系)	Huang, Chi-Hsien (黃啟賢)	具可撓性/可拉伸性石墨烯奈米複合材料之透明導電電極之研究開發及其於有機太陽能電池之應用(3/3) Developmet of Graphene-based nanocomposites as flexible/stretchable transparent electrode and its application for organic solar cell(3/3)	109/08/01	110/07/31	1,216,000
2020	College of environment and resources (環資學院)	Department of Materials Engineering (材料系)	Chen, Chih-Ping (陳志平)	高性能/堅固/可拉伸之高分子和鈣鈦礦太陽能電池應用研究(3/3) High-Performance, Robust, Stretchable Polymer and Perovskite Photovoltaics(3/3)	109/08/01	110/07/31	1,258,000
2020	College of environment and resources (環資學院)	Department of Materials Engineering (材料系)	Huang, Yu-Ching (黃裕清)	高弱光效能有機太陽能電池之量產技術暨原型產品開發(3/3) Mass-production technology and prototypes development of high dim-light performance organic solar cells(3/3)	109/08/01	110/07/31	1,396,000