

國科會計畫

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科普活動---燃料電池車實驗動手做活動
Fun Do It Yourself Based on Fuel Cell Car Experiment

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中文摘要

為推廣燃料電池在電動車的應用，本計畫旨在建構出一套燃料電池在電動車的實驗模組，同時進行科普素材之開發與推廣。本研究首先蒐集並整理燃料電池車之相關資料，接著製作燃料電池、功率分配器和電瓶充電/供電迴路等實驗模組，逐步整合出一套完整的燃料電池車教學模組，並開發簡單化及趣味化之科普素材，最後進行主題式研習活動和成果展示，並積極推廣本計劃之成效，據以作為未來推廣燃料電池車之參考。

關鍵字：燃料電池；電動車

Abstract

In order to popularize the application of Fuel Cell Vehicle, this project develops a Fuel Cell Electric Vehicle experiment module and teaching materials. This research collects and analysis relevant materials of the Fuel Cell Vehicle. A Fuel Cell Vehicle experiment module construct with energy dispatcher and battery charge/discharge module. Most efforts will be focusing on developing instructional materials relating to Fuel Cell Electric Vehicle experimental module. Finally, the effects and results will be evaluated by of learning camp and demo. The results of study will popularize for the Fuel Cell Electric Vehicle education in the future.

Key words : Fuel Cell; Electric Vehicle