

# 壁報論文展示編號

- P1**  
自製音叉回饋式近場光學顯微儀應用於光纖模態研究  
Study of the guiding mode in a fiber by using a home-made tuning-fork NSOM
- P2**  
電熱力效應對生物感測器之數值研究  
Finite-Element Simulation on Immunoassay for a Biosensor with Applying Electro-Thermal Effect
- P3**  
表面電漿共振儀應用於人體免疫球蛋白檢測之實驗與數值模擬  
On the Immunoassay of Human Immunoglobulin using Surface Plasmon Resonance: Experiment and Numerical simulation
- P4**  
石英晶體微天平的實驗和模擬應用於抗體與抗原結合之親和力分析  
Simulation and Experiment of Quartz Crystal Microbalance for Affinity Analysis of Antibody-Antigen Interactions
- P5**  
埋入人體被動肌肉組織的感測器受外來衝擊力時的阻尼振動反應研究  
Damped Response of a Cantilever Sensor Embedded in Passive Muscle under Impact
- P6**  
Vibrational Properties of Carbon Nanotubes
- P7**  
使用不同合金催化劑以成長奈米碳管之比較研究  
The comparative study of using different alloy catalysts to grow carbon nanotubes
- P8**  
鎳與鐵奈米粒對奈米碳管生長之催化效應  
Catalytic Effects of Ni and Fe Nano-particles on the CNT Growth
- P9**  
熱處理對化學氣相沉積奈米碳管表面結構及場發射特性之影響  
Thermal Treatment Effect on the Surface Morphology and Field Emission Properties of Chemical Vapor Deposited Carbon Nanotubes
- P10**  
鉻酸溶液後處理對熱化學氣相沉積奈米碳管表面形態及場發射特性之影響  
Effects of CrO<sub>3</sub> Solution Post-Treatment on Surface Morphology and Field Emission Properties of Thermal Chemical Vapor Deposited Carbon Nanotube Films
- P11**  
以 N<sub>2</sub>O 氣體前處理催化劑金屬及其對熱化學氣相沉積奈米碳管場發射特性之效應  
N<sub>2</sub>O Pre-treatment of Catalyst and its Effect on the Field Emission Properties of Thermal Chemical Vapor Deposited Carbon Nanotube Films

**P12**

以電泳沉積及燒結改善奈米碳管超級電容器效能之研究

Enhancement of CNT Supercapacitors by Electrophoretic Deposition and Air Oxidation of CNTs

**P13**

奈米碳管運用於內連線材料之研究

Carbon Nanotubes Grown from Plugs as interconnect material

**P14**

探討 TiO<sub>2</sub> 膠體重量百分比及奈米碳管對染料敏化太陽能電池之影響

The Effects of TiO<sub>2</sub> Colloid Ratio and Carbon Nanotubes for Dye-Sensitized Solar Cell

**P15**

探討染料浸泡時間及奈米碳管對染料敏化太陽能電池之影響

The Effects of Dipping Time of Dye and Carbon Nanotubes for Dye-Sensitized Solar Cell

**P16**

探討染料及奈米碳管對染料敏化太陽能電池之影響

The Effects of Dye and Carbon Nanotubes for Dye-Sensitized Solar Cell

**P17**

電解質系統對色素增感型太陽電池光電轉換效率之影響

The Influence of Redox Couples on Photoelectrochemical Efficiency — An Impedance Analysis of Dye-sensitized Solar Cells

**P18**

電紡製作奈米纖維之進展：兩電極收集器研究

Progress in Electrospinning of Nanofiber: Two Collector Research

**P19**

水熱法製備氧化鋅奈米線的結構與特性研究

Synthesis of ZnO Nanowire Arrays on Glass Substrate by Low Temperature Hydrothermal Method

**P20**

硝酸鋅六水合物濃度對熱液合成法所成長之氧化鋅奈米柱微結構特性之影響

The Influence of Zinc Nitrate Hexahydrate Concentration on the Microstructural Properties of ZnO Nanorods Grown by Hydrothermal Synthesis

**P21**

以電化學沉積製備奈米氧化亞銅線特性與微結構研究

The Microstructure and Property of Cu<sub>2</sub>O-Nanowire Fabricated by Electrodeposition

**P22**

利用陽極氧化鋁模板製備鎳奈米線

The Property of Nickel Nanowire Arrays Electrodeposited From Anodic Aluminum Oxide Template

**P23**

以金屬誘發析出矽奈米線之成長機制

The Growth Mechanism of Metal-Induced-Precipitation of Silicon Nanowires

**P24**

矽薄膜奈米通道在交流阻抗譜的電特性

A electric property in impedance spectroscopy on Silicon membrane nanochannel

**P25**

氧化鋅製作多孔矽結構光檢測器之研究

Fabrication and Study of the ZnO on Porous Silicon for Photodetector

**P26**

MBE growth and photoluminescence study of GaSb quantum dots on GaAs substrate

**P27**

The nano features of optical and electrical properties in multiple quantum wells

**P28**

*P* 型 CuAlO<sub>2</sub> 透明導電薄膜厚度對奈米結晶行為與光電特性之影響

The Effects of Optical, Electrical and Nanocrystalline Properties of *P*-type CuAlO<sub>2</sub> Films Using Sputtering

**P29**

利用熱氧化方法所製備的三氧化二釷氧化物其成長演進的過程與電氣特性之分析與探討

Growth Evolution and Electrical Characteristics of Gd<sub>2</sub>O<sub>3</sub> from Deposited Gd Metal during Thermal Oxidation

**P30**

射頻磁控濺鍍製備 PET/ITO/WO<sub>3</sub> 可撓式電致色變元件之研究

The Study of PET/ITO/WO<sub>3</sub> Flexible Electrochromic Device by Radio Frequency Magnetron Sputtering

**P31**

以射頻濺鍍法備製氧化銦錫薄膜之表面特性及應用

Surface Properties and Application of the ITO Thin Film was Deposited by the R.F. Sputtering System

**P32**

氧化鋅薄膜之奈米機械特性

Nanomechanical Characterization of ZnO Thin Films

**P33**

氧化鋅薄膜之磨潤特性

The Tribology Property of Zinc Oxide Thin Films

**P34**

不同鎘含量之硒化鎘鋅薄膜之機械特性

The effect on the different Cd concentration of Zn<sub>1-x</sub>Cd<sub>x</sub>Se epilayers and mechanical property

**P35**

氧化錳鋅薄膜之磨潤特性

The Effect of Various Concentration of Mn on Zn<sub>1-x</sub>Mn<sub>x</sub>O Epilayers and Characteristic of Nanoscratch

**P36**

合成核殼奈米粒子參數之影響

The Effects of Parameter on the synthesis of the Core-Shell Structure

**P37**

Ti/Si 組成對超親水性鍍膜接觸角之影響

Influence of Ti/Si on the Superhydrophilic Coatings

**P38**

溶膠-凝膠法利用醋酸溶液製備奈米二氧化矽

Effect of Acetic Acid for Sol-Gel Prepare Fluorinated Polyimide-Nanosilicate Hybrids

**P39**

添加 3-氨基三乙氧基矽烷之溶膠-凝膠法在含氟聚亞醯胺製備奈米二氧化矽

Effect of 3-Aminopropyltriethoxysilane for Sol-Gel Prepare Fluorinated Polyimide-Nanosilicate Hybrids

**P40**

微奈米複合粉體應用於膨脹型防火塗料之研究

Application of micro/nano composite powder on intumescent fire-retardant paints

**P41**

微奈米複合粉體應用於電磁波屏蔽之研究

Application of micro/nano composite powder on electromagnetic interference shielding

**P42**

RFID 結合浮水印及指紋辨識應用於手機安全防護之研究

**P43**

指紋辨識結合無線射頻識別應用於機車防盜安全之研究

**P44**

浮水印結合指紋辨識技術應用於電腦資訊安全之研究

**P45**

離子源輔鍍製備 TiAlN 薄膜之微結構、表面粗糙度與硬度研究

Effects of ion beam current on the microstructure, surface morphology and hardness of TiAlN films grown by ion beam assisted magnetron sputtering