



# 材料工程系暨材料工程研究所

Department of Materials Engineering

& Institute of Materials Engineering

## 一、師資

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## 二、期刊論文

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#### 四、專書及技術報告

無。

#### 五、專利

項次	發明人	專利權人	專利名稱	類別	公告文號	專利國家	核定日期
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項次	發明人	專利權人	專利名稱	類別	公告文號	專利國家	核定日期
1	林延儒 蔡松雨	工研院	Substrates and methods for fabricating same	發明	US 7,557,374 B2.	USA	2009/0707
2	林延儒 蔡松雨	工研院	Substrates and methods for fabricating same	發明	專利證號 I317147	ROC	2009/11/11

## 六、研究計畫及建教案

項次	主持人	計畫名稱	委託單位	起訖日期	合作經費			
					總計 (a+b+c)	政府 a	廠商 b	學校 c
一	游洋雁	高分子與無機奈米粒子混成光學抗反射薄膜之製備及其性質研究	國科會	20090801 20100731	1,350,368	1,350,368	0	0
二	游洋雁	98 年度重點特色計畫：全光譜薄膜太陽電池及新世代染料敏化太陽電池之材料系統環境整合技術(分項 2)	教育部	20090409 20091210	1,109,000	850,000	0	259,000
三	陳勝吉	高垂直磁異向性之合金薄膜製作及磁性質研究(II)	國科會	20090801 20100731	786,000	786,000	0	0
四	林延儒	98 年度重點特色計畫：全光譜薄膜太陽電池及新世代染料敏化太陽電池之材料系統環境整合技術(分項 1)	教育部	20090409 20091210	5,559,000	5,300,000	0	259,000
五	謝章興	98 年度重點特色計畫：全光譜薄膜太陽電池及新世代染料敏化太陽電池之材料系統環境整合技術(分項 0)	教育部	20090409 20091210	405,000	0	0	405,000
六	徐富勇	電化學沉積 Cu <sub>2</sub> O:(Mn,Ni) 於透明	國科會	20090801 20100731	541,000	541,000	0	0

項次	主持人	計畫名稱	委託單位	起訖日期	合作經費			
					總計 (a+b+c)	政府 a	廠商 b	學校 c
		導電玻璃製作氧化物異質接合面的製程及分析						
七	張麗君	98 年度【非揮發性記憶體應用於軟性電子關鍵技術研究-低溫製程電阻式記憶體之電阻特性及透光特性之研究(I)】 NSC 98-2221-E-131 -025	國科會	20090801 20100731	660,000	660,000	0	0
八	程志賢	脈衝直流反應性濺鍍氮化鋁壓電薄膜之研究	國科會	20090801 20100731	516,000	516,000	0	0
九	謝章興	銀及銅銀合金奈米顆粒在氮化鈮薄膜表面析出及溶解對薄膜機械及抗菌性質之影響	國科會	20090801 20100731	767,000	767,000	0	0
十	謝章興	陰極電弧鍍膜法在針頭鍍 TiN 之低溫製程技術開發	國科會 博唯特科技	20091101 20101031	587,000	382,000	205,000	
十一	阮弼群	摻雜型鐵酸鈹薄膜之電性及應用於非揮發性鐵電記憶體之研究	國科會	20090801 20100731	1,021,368	1,021,368	0	0
十二	阮弼群	薄膜太陽電池產學合作計畫(II)	新能光電	20091101 20101031	300,000	300,000	0	0
十三	林延儒	量子井結構之矽基太陽電池研究	國科會	20090801 20100731	561,000	561,000	0	0
十四	李志偉	以反應式雙極非對稱脈衝直流磁控濺鍍系統鍍製氮化鉻基質奈米多層薄膜之製程參數與薄膜性質研究	國科會	20090801 20100731	963,000	963,000	0	0
十五	李志偉	基礎應用科學教育-總計畫：提昇科技大學學生基礎科學能力之課程改良及評估-以微奈米技術學程修課學生為例	國科會	20091201 20101130	567,000	567,000	0	0
合計					15,692,736	14,564,736	205,000	923,000

## 七、研究生論文

項次	研究生姓名	論文題目	指導教授	畢業日期
1	蔡家量	第系硬桿-柔軟雙親性嵌段共聚物高分子之合成及其形態與光物理特性探討之研究	游洋雁	2009/07
2	蔡宗威	聚亞醯胺/無機奈米粒子高透光性混成薄膜製備及其光學性質探討之研究	游洋雁	2009/07
3	陳松柏	快速熱退火製程對 FePt 薄膜之顯微結構與磁性質影響	陳勝吉	2009/07
4	洪偉瀚	FePt 複合多層膜之製作與磁性質研究	陳勝吉	2009/07
5	盧永益	以電化學沉積 Cu <sub>2</sub> O:Mn 於透明導電玻璃基板製作 p-n 接面製程、結構及性質之研究	徐富勇	2009/09
6	陳琮暉	Mo 底電極上濺鍍兩段式 AlN 薄膜及其性質分析	程志賢	2009/7
7	張哲誠	以濺鍍法製備氮氧化鈮-銀複合薄膜及其特性之研究	謝章興	2009/7
8	黃仲慰	摻雜 Ag 之 SiO <sub>x</sub> 薄膜的光學性質	謝章興	2009/7
9	方皓葦	鋅錫氧化物透明導電膜之製備及物理特性研究	林延儒	2009/07

## 八、榮譽

- [1] 黎佳霖、李志偉、吳芳賓、張麗君，氮化鉻/銅奈米多層薄膜之抗腐蝕性質研究，2009 防蝕工程年會暨學術研討會，海報論文佳作獎，2009。
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- [3] J. H. Hsieh, S. J. Liu, P. W. Kuo, Weite Wu, R. B. Yu, The properties of sputtered-deposited Cu<sub>2</sub>O-Ag-Cu<sub>2</sub>O films treated with rapid thermal annealing，2009 材料年會，海報論文佳作獎，2009。

## 九、技術移轉案件

技術移轉名稱	技術發明人	技術類型	技轉廠商名稱	取得專利名稱	技轉時間	技轉授權金
國科會產學合作之先期技轉(陰極電弧鍍膜法在針頭鍍 TiN 之低	謝章興		博唯特科技			47,200



溫製程技術開發)						
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## 十、其他

### [1] 教師優異經歷：

1. 游洋雁 2009/07 擔任國立台灣大學高分子科學與工程研究所碩士論文口試委員。
2. 游洋雁 2009/09 獲得明志科技大學 97 學年度優良教師研究獎
3. 游洋雁 2009/10 擔任國際期刊 Polymer International 論文審稿人。
4. 游洋雁 2009/11 擔任國際期刊 Polymer International 論文審稿人。
5. 游洋雁 2009/12 擔任國立台北科技大學材料科學與工程研究所碩士論文口試委員。
6. 張麗君 台灣電子材料與元件協會 永久會員
7. 吳鉉忠 2009/7 擔任國立聯合大學材料科學工程研究所碩士論文口試委員。
8. 吳鉉忠 2009/10 國立臺南大學綠色能源科技學系 有機電子研討會 受邀演講。
9. 彭坤增 2009/06 擔任國立中央大學機械工程研究所碩士論文口試委員。
10. 林延儒 2009/06 擔任 國立中興大學 材料系 碩士班 碩士論文口試委員(兩場)
11. 林延儒 2009/07 擔任國際期刊 Crystal Growth & Design 論文審稿人。
12. 林延儒 2009/12 擔任 國立中興大學材料系 產碩專班 碩士論文口試委員。
13. 林延儒 2009/09 發表於 SCI 期刊 CrystEngComm 之文章資料(八月份發表), 成為期刊背面封面。
14. 謝章興 2009/06 擔任 國立中興大學 材料系 碩士班 碩士論文口試委員。
15. 謝章興 2009/06 擔任 國立中央大學 機械系 博士班 博士論文口試委員
16. 謝章興 2009/06 擔任 義守大學 材料系 博士班 博士論文口試委員
17. 謝章興 擔任台灣鍍膜協會理事
18. 謝章興 擔任國際期刊 Thin solid films, Surface Coatings and Technology, and Materials Science and Engineering B 論文審稿人。

### [2] 研究成果：

無。