



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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助理教授	林延儒 Yan-Ru Lin	國立清華大學 材料博士	金屬氮化物濺鍍磊晶 製程、一維氧化鋅、氧 化錫奈米材料合成 & 應用、無機材料微結構 分析 (TEM、XRD)、太 陽電池



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助理教授	吳鉉忠 Hsuan-Chung Wu	國立成功大學 材料科學與工程學系博士	材料製程模擬系統之開發與應用、材料模擬、OLED 元件設計與製程技術
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二、期刊論文

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三、會議論文

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四、專書及技術報告

五、專利

項次	發明人	專利權人	專利名稱	類別	證書字號	專利國家	日期
1	<u>林延儒</u> 蔡松雨 劉俊岑	工研院	非晶矽太陽電池	發明	I302753	中華民國	2008/11/01
2	Y. D. Yao P. C. Kuo <u>S. C. Chen</u> A. C. Sun C. C. Chian g	中央研究院	Fabrication of nanocomposite thin films for high density magnetic recording media	發明	專利第 JP 4084638 號	日本	2008/02/22

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
1	阮弼群	薄膜太陽電池產學合作計畫	新能光電科技公司	20081025 20090131	208,537	0	208,537	0
2	張麗君	應用於非揮發性記憶體與軟性電子關鍵技術研究-電阻式記憶體電阻層特性與低溫製程之研究 (NSC97-2221-E-131-025)	國科會	20080801 20090731	636,000	636,000	0	0
3	游洋雁	利用 ATRP 合成星狀雙親性硬桿-柔軟團聯共聚物及其與雙親性寡聚物或無機奈米粒子摻合之研究 (NSC97-2221-E-131-002)	國科會	20080601 20090131	800,000	800,000	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
4	謝章興	產學合作計畫－針頭鍍氮化鈦參數之最佳化研究(NSC97-2622 -E- 131-004-CC3)	國科會及多特針業公司	20080801 20090731	518,935	345,000	173,935	0
5	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(NSC97-2221-E-131-003-MY2)	國科會	20080801 20090731	875,000	875,000	0	0
6	林延儒	一維金屬氧化物材料應用元件研究(NSC97-2218-E-131-001)	國科會	20080801 20090731	757,000	757,000	0	0
7	陳勝吉	高垂直磁異向性之合金薄膜製作及磁性質研究(NSC97-2221-E-131-004)	國科會	20080801 20090731	740,000	740,000	0	0
合計					4,535,472	4,153,000	382,472	0

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	劉柏村	抗菌耐磨 TaN-Cu 奈米複合薄膜之老化與再生研究	謝章興	2008/07
2	陳亮宇	Cr-doped SnO ₂ 薄膜與 Cu ₂ O/SnO ₂ 異質界面製作與特性研究	謝章興 劉旭禎	2008/07
3	葉宏立	以非對稱雙極脈衝直流反應磁控濺鍍法製作 ZnO:Al(Sc)透明導電膜結構及性質之研究	徐富勇	2008/01

八、榮譽

- [1] 第七屆台塑關係企業應用技術研討會，榮獲學校組論文競賽績優獎，王威勛，王志軒，陳柏穎，盧榮宏，June 27, 2008. 題目：『奈米結構在薄膜材料光性及導電性的操控應用研究』
- [2] 中華民國材料年會，榮獲奈米結構材料與分析之佳作獎，彭昱淳(Yu-Chun Peng)，鄭春德(Chun-Der Cheng)，盧榮宏(Jong-Hong Lu)，Nov. 21, 2008. 題目：『反應式濺鍍(銻錫氧化物/非晶氮氧化鋁)超晶格薄膜的電子能隙探討』

- [3] 第七屆台塑關係企業應用技術研討會，榮獲學校組論文競賽組佳作獎，游洋雁*、林彥榮、林裕幃、許政偉、郭宗諺、黃俊諺, June 27, 2008. 題目:『聚噻吩共軛高分子/硫化鎘混成薄膜之設計、合成、性質與其光電特性探討研究』
- [4] 第七屆台塑關係企業應用技術研討會，榮獲學校組論文競賽組佳作獎，陳勝吉、陳松柏、洪永建、孫達皇、劉璟泓、楊宏毅、蕭永仁, June 27, 2008. 題目:『熱處理之升溫速率對 FePt 合金薄膜顯微結構與磁性質之影響』

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
針頭鍍氮化鈦參數之最佳化	謝章興	先期技術移轉授權金	多特針業公司	無	20090731	42,000

十、其他

教師優異經歷

游洋雁

- 1.2008/06 擔任台灣大學高分子科學與工程研究所博士論文口試委員。
- 2.2008/06 擔任台北科技大學材料科學與工程研究所碩士論文口試委員。
- 3.2008/06 擔任台灣大學化學工程研究所博士論文口試委員。
- 4.2008/07 擔任淡江大學化學工程與材料工程研究所碩士論文口試委員。
- 5.2008/09 擔任國際期刊Journal of Nanoscience & Nanotechnology論文審稿人。
- 6.2008/09 獲得明志科技大學 96 學年度優良教師研究獎。

謝章興

- ◆ 擔任 THIN FILMS 2008 (Singapore)國際研討會之 Symposium Chairman.
- ◆ 邀請演講 “**Deposition, characterization, and applications of TaN-Cu and TaN-Ag nanocomposites thin films**”, National Tsing Hwa University, Hsin Chu, Taiwan, April 12, 2008
- ◆ 擔任台灣鍍膜學會理事
- ◆ 擔任國科會複審委員
- ◆ 擔任北科大博士(1)及碩士(2)論文口試委員
- ◆ 擔任中央大學博士(1)論文口試委員
- ◆ 擔任 Thin Solid Films, Surface and Coatings Technology, Journal of Nanoscience and Nanotechnology 論文審稿

程志賢

- ◆ 擔任 Applied Surface Science, Ferroelectrics 論文審稿

林延儒

- 1.2008/02 擔任 SCI 期刊, Cryst. Growth & Des., 論文 Reviewer
- 2.2008/05 擔任 SCI 期刊, Chem. Mater., 論文 Reviewer
- 3.2008/06 擔任成功大學/光電所/碩士論文口試委員。
- 4.2008/06 擔任成功大學/產業研發碩士專班/碩士論文口試委員。
- 5.2008/07 擔任中興大學/材料系/碩士論文口試委員(三場)。
- 6.2008/07 擔任SCI期刊, Cryst. Growth & Des., 論文Reviewer
- 7.2008/12 擔任 SCI 期刊, J. Alloys & Compd., 論文 Reviewer

吳鉉忠

邀請演講，“模擬技術在 TFT-LCD 製程中之應用”，明新科技大學光電系統工程系，新竹，台灣，October 29, 2008

◆ 擔任元智大學/光電工程系/碩士論文口試委員

