



材料工程系

Department of Materials Engineering

一、師資

職稱	姓名	學歷	專長
講座教授	李志偉 Jyh-Wei Lee	國立清華大學 材料科學工程學系 博士	表面改質(薄膜製程、鋁化、滲 鉻、無電鍍)、奈米機械性質量測 分析、顯微鏡技術與微結構分 析、防蝕技術
特聘教授	劉定宇 Ting-Yu Liu	國立交通大學 材料科學與工程研究所博 士	生醫光電感測、奈米材料自組 裝、3D 列印及高分子複合材料、 表面分析技術、電化學及電漿高 分子聚合技術
教授 兼系主任 兼學程主任 兼電漿與薄膜科 技中心主任	黃啓賢 Chi-Hsien Huang	國立交通大學 應用化學博士	低損傷電漿製程開發、石墨烯應 用、生醫感測元件、奈米材料、 奈米圖案化
教授 兼研發長	陳勝吉 Sheng-Chi Chen	國立台灣大學 材料工程博士	透明導電膜、感測器材料開發、 熱電薄膜、奈米資訊儲存技術、 磁性材料、薄膜製程與分析技術
教授	吳鉉忠 Hsuan-Chung Wu	國立成功大學 材料工程博士	材料製程模擬系統之開發與應 用(金屬 3D 列印、煉鋼製程)、第 一原理計算(氧化鋅、二氧化 鈦)、機器學習
教授	張麗君 Li-Chun Chang	國立交通大學 電子工程博士	製程及元件故障分析、材料微結 構分析、無電鍍製程、電子陶瓷 製程、光學鍍膜、電子構裝、品 質工程 & 品質管制
教授	程志賢 Jyh-Shiarn Cherng	美國密西根大學 材料工程博士	陶瓷材料、電泳製程、薄膜製程
教授	游洋雁 Yang-Yen Yu	國立台灣大學 化學工程博士	光電高分子材料、奈米複合光電 薄膜
教授	阮弼群 Pi-Chun Juan	國立清華大學 電機博士 (固態電子組)	全方位太陽能電池、高介電材 料、鐵電材料、壓電材料、半導 體製程、快閃式記憶體製程
教授	張奇龍 Chi-Lung Chang	國立中興大學 材料工程學博士	薄膜製程技術(硬質薄膜)、電漿 源與真空系統設計、薄膜磨潤 學、材料分析、金屬(模具)熱處 理

職稱	姓名	學歷	專長
教授	陳志平 Chih-Ping Chen	國立中興大學 化學工程博士	有機光電材料及元件、共軛高分子材料、太陽能電池、鈣鈦礦型太陽能電池，具拉伸式有機電子元件及材料。
教授	謝建國 Chien-Kuo Hsieh	國立清華大學 工程與系統科學博士	奈米碳材、低維度奈米材料、奈米複材、半導體材料及製程技術、染料敏化太陽能電池、甲醇氧化、超級電容
副教授 兼生化工程技術 研發中心製程研 發組組長	黃裕清 Yu-Ching Huang	國立台灣大學 材料科學及工程學博士	有機與鈣鈦礦太陽能電池量產製程技術、同步輻射光源分析材料結構技術、軟性有機電子印刷技術、弱光光伏應用
副教授	林延儒 Yan-Ru Lin	國立清華大學 材料工程博士	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
副教授	盧榮宏 Jong-Hong Lu	國立台灣大學 物理學博士	奈米材料、奈米檢測、固態物理、薄膜元件製程及設備技術
副教授	簡順億 Shun-Yi Jian	國立台灣大學 材料科學及工程學博士	輕金屬表面改質(化成、電漿氧化、陽極處理、電鍍、無電鍍)、顯微鏡技術與微結構分析、防蝕技術
副教授	黃宗鈺 Tsung-Yu Huang	國立清華大學 材料科學及工程博士	超材料、表面和侷域電漿子、光學設計和生物感測器
副教授	彭坤增 Kun-Cheng Peng	國立中央大學 機械工程博士	電化學方法應用與分析、深共熔液體與石墨烯環保溶液金屬積層製造、環保溶液金屬表面陽極處理、創意環保金屬表面上色處理、薄膜式壓電材料與多元材料電漿披覆、金屬熔煉與鑄造製程、玻璃環保回收功能性產品
助理教授 兼環資學院實務 菁英班主任	賴怡廷 Yi-Ting Lai	國立清華大學 材料科學及工程博士	電化學分析與應用、石墨烯複合材料、層狀雙氫氧化物、廢水處理
助理教授	曾傳銘 Chuan-Ming Tseng	國立成功大學 材料科學及工程博士	電化學技術應用、電漿電解氧化製程、材料腐蝕與破損分析、(掃描)穿透式電子顯微術、X 光(電子)繞射及結晶學
助理教授	林孟芳 Meng-Fang Lin	新加坡南洋理工大學 材料科學博士	奈米材料、複合材料、軟性電子材料、人機介面材料、奈米發電機
助理教授	姚栢文	香港城市大學	濺鍍合金薄膜、金屬玻璃與高熵

職稱	姓名	學歷	專長
	Pak-Man Yiu	物理及材料科學博士	合金、表面性質(潤濕與磨耗)、表面奈米結構功能應用、微奈米材料量測分析
助理教授	童敬維 Ching-Wei Tung	國立台灣大學 化學系博士	人工光合作用材料、無機材料、矽半導體光電極、光電與電解水催化反應、臨場同步輻射光源 X 光研究
教授	謝章興 Jang-Hsing Hsieh (111.02 退休)	美國喬治亞理工學院 材料工程博士	薄膜製程、電漿製程、表面工程
助理教授	陳政營 Cheng-Ying Chen (111.08 離職)	國立台灣大學 光電工程學研究所博士	機材料成長、光電半導體元件物理、光電半導體製程技術、材料光電性質分析、薄膜物理與工程技術、太陽能電池、奈米科技、凝態物理

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- [331]Chao-Chi Lai, Ting-Yu Liu, Chien-Hing Lin,“Surface modification of carbon felt electrodes by electrochemically coated conductive polymers for vanadium redox flow batteries”,2023 International Forum in Plasma and Thin Film Technologies for Sustainable Development Goals (PTSDG2023),新北市,中華民國,2023/6/15,【國際學術研討會】
- [332]Hsuan-Ting Lin, Chien-Ming Chen, Ting-Yu Liu, Ming-Chien Yang,“Raman biosensing enhancement through Au nanoparticle decoration on functionalized mesoporous silica nanospheres”,2023 International Forum in Plasma and Thin Film Technologies for Sustainable Development Goals (PTSDG2023),新北市,中華民國,2023/6/15,【國際學術研討會】
- [333]Guang-Zhi Peng, Ting-Yu Liu, Chen-Yang Lin, Ming-Chien Yang,“Reusable Surface-Enhanced Raman Scattering Biomolecule Detection Using Photocatalytic Nanocomposites Ag@g-C₃N₄/GO”,2023 International Forum in Plasma and Thin Film Technologies for Sustainable Development Goals (PTSDG2023),新北市,中華民國,2023/6/15,【國際學術研討會】
- [334]Umamaheswari Rajaji, Ting-Yu Liu,“3D Zn₃V₂O₈ Modified on S -Graphitic Nitride Composites: Investigation on the Dual Role of Catalyst for Simultaneous Electrochemical Detection of Antibiotic in Biological Fluids”,1st International Symposium on Carbon Materials (2023 ISCM-1),台南市,中華民國,2023/1/31,【國際學術研討會】
- [335]Nikhil Prabhakar, N. Ponpandian, Yu-Hsiang Huang, Ting-Yu Liu, Viswanathan. C,“Expanding interlayer spacing of Ti₃C₂T_x MXene supported BiWO₄ binder-free electrode for Supercapacitor Application”,2023 International Forum in Plasma and Thin Film Technologies for Sustainable Development Goals (PTSDG2023),新北市,中華民國,2023/6/15,【國際學術研討會】
- [336]Pavithra Suresh, Wei-Han Luo, Umamaheswari Rajaji, Ting-Yu Liu, Abirami Natarajan,“Rational synthesis of two-dimensional Graphitic carbon nitride/Iron tungstate: A hybrid nanocomposite for selective detection of dopamine and uric acid”,2023 International Forum in Plasma and Thin Film Technologies for Sustainable Development Goals (PTSDG2023),新北市,中華民國,2023/6/15,【國際學術研討會】
- [337]Sujithkrishnan, Umamaheswari Rajaji, Chien-Ming Chen, Ting-Yu Liu and Perumal Elumalai,“Facile Microwave assisted Solvothermal Synthesis of Cu-MOF for Effective Non-enzymatic Biosensing of Creatinine”,2023 International Forum in Plasma and Thin Film Technologies for Sustainable Development Goals (PTSDG2023),新北市,中華民國,2023/6/15,【國際學術研討會】
- [338]Chun-Hao Wu, Zi-Ling Zeng, Chia-Hsien Lin, Ruo-Yu Lee, Yen-Ting Lin, Ting-Yu Liu,“Bionic Nepenthes Peristome-like Biochips for Self-Driving Water and SERS Bio-Detection”,International Conference on Precision Nanomedicine in Theranostics &The 2023 Annual Meeting of Taiwan Nanomedicine Society,台中市,中華民國,2023/7/21,【國際學術研討會】
- [339]Chun-Hao Wu, Ting-Yu Liu,“Anti-bacterial capabilities and SERS detection of PEDOT: PSS coating with graphene oxide nanosheets and silver nanoparticles by electropolymerization”,2023 International Forum in Plasma and Thin Film Technologies for Sustainable Development Goals (PTSDG2023),新北市,中華民國,2023/6/15,【國際學術研討會】
- [340]Kuan-Syun Wanga, Yu-Ju Chu, Ru-Jong Jenga, Ting-Yu Liu,“Precise synthesis of thiol-end

group dendritic polymers to dispersion AuNPs onto amino-functionalized laser-induce graphene for dual functional EC-SERS detection”,2023高分子國際研討會,桃園,中華民國,2023/1/17,【國內學術研討會】

四、研究及產學合作計畫

單位:元

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
1	陳志平	非稠環共軛分子的分子設計和合成及其光電特性、載流子動力學、奈米級混摻形態和有機多組成太陽能電池的基礎研究	國科會	112/08/01 113/07/31	2,117,150	2,117,150	0	0
2	陳勝吉	高性能氮化銅複合薄膜之新穎製程開發、膜層結構設計及前瞻應用	國科會	112/08/01 113/10/31	1,793,793	1,793,793	0	0
3	張奇龍	高功率脈衝磁控濺射在混合放電輸出模式下沉積超薄硬四面體非晶碳(ta-C)薄膜之製程開發與特性研究	國科會	112/08/01 113/10/31	1,300,000	1,300,000	0	0
4	張麗君	利用高功率脈衝濺鍍製程開發應用於有機元件之薄膜封裝技術	國科會	112/08/01 114/01/31	1,250,000	1,250,000	0	0
5	姚栢文	注液及超疏水大面積金屬奈米空心管陣列應用於抗結冰表面之性能研究(2)	國科會	112/08/01 113/07/31	1,300,000	1,300,000	0	0
6	曾傳銘	電漿電解拋光製程對鈦合金與不銹鋼之抗菌性質與應力腐蝕破裂行為影響研究	國科會	112/08/01 114/01/31	1,360,000	1,360,000	0	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
7	簡順億	新型生物可降解性 Ti-Ca-P 基皮膜應用於醫用鎂合金複合材料及其在人工體液內腐蝕機制研究(1/2)	國科會	112/08/01 113/07/31	1,262,000	1,262,000	0	0
8	黃裕清	高效能長壽命之大面積半透明鈣鈦礦太陽電池(1/4)	國科會	112/08/01 113/07/31	2,781,880	2,781,880	0	0
9	盧榮宏	陣列式偏振波包結合共振穿透的有機光二極體智慧檢測應用	國科會	112/08/01 113/07/31	1,102,000	1,102,000	0	0
10	童敬維	臨場分析原子尺度之催化劑於析氨反應中的結構與自旋態變化(1/2)	國科會	112/08/01 113/07/31	2,508,000	2,508,000	0	0
11	黃裕清	用於快速檢測微小核糖核酸的超靈敏磁光分析平台之開發	國科會	112/08/01 113/07/31	344,940	344,940	0	0
12	劉定宇	石墨烯量子點/導電奈米複合高分子之抗菌及光觸媒自潔塗料製備及應用	國科會	112/06/01 113/05/31	948,480	700,000	248,480	0
13	黃裕清	低成本高度客製化卷對卷設備開發與效能驗證	國科會	112/06/01 113/05/31	1,059,520	646,000	413,520	0
14	阮弼群	無碳矽烷基胺前驅物於超大型積體電路閘極氧化層之原子層沉積技術開發	國科會	112/11/01 113/12/31	1,400,000	900,000	500,000	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
15	劉定宇	貴金屬奈米粒子/共軛高分子複合二維奈米片於光催化及可循環SERS 生醫檢測之應用	國科會	112/11/01 113/10/31	899,900	650,000	249,900	0
16	吳鉉忠	高爐低碳煉鐵技術開發(2/3)	國科會	112/11/01 113/10/31	2,295,800	1,765,800	530,000	0
17	黃裕清	新穎晶圓切割膠帶之研發(3/3)	國科會	112/11/01 113/10/31	535,000	535,000	0	0
18	黃啟賢	基於新穎石墨烯氧化物/石墨烯層狀複合材料開發高靈敏及精準電化學式生物感測元件開發之研究(II)(2/2)	國科會	112/08/01 113/07/31	2,445,100	2,445,100	0	0
19	陳志平	有機共軛紅外光材料於高性能有機及堆疊太陽能電池之應用基礎研究(2/2)	國科會	112/08/01 113/07/31	1,610,000	1,610,000	0	0
20	劉定宇	具自驅動及電篩選能力之仿生電化學-拉曼增強感測晶片設計及應用(2/3)	國科會	112/08/01 113/07/31	2,684,400	2,684,400	0	0
21	游洋雁	超薄金屬透明電極及超窄能隙共聚物於近紅外光吸收半透明有機太陽能電池及有機光電感測器之應用研究(2/3)	國科會	112/08/01 113/07/31	1,400,000	1,400,000	0	0
22	賴怡廷	雙重濕潤性碳纖維於電容脫鹽海水淡化之應用	國科會	112/08/01 113/11/30	1,703,020	1,703,020	0	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
		(2/2)						
23	林孟芳	可撓式奈米纖維 摩擦奈米發電機 (2/3)	國科會	112/08/01 113/07/31	3,056,871	3,056,871	0	0
24	李志偉	以疊加型高功率 脈衝磁控濺鍍系 統製備含硼/二硼 化鈦、硼氮化物 與碳硼氮化物高 熵合金奈米複合 薄膜與其性質研 究(3/3)	國科會	112/08/01 113/07/31	1,780,000	1,780,000	0	0
25	賴怡廷	112 年「外籍高階 人才來臺實習試 辦專案」(Gokila Nagaraj)	國科會	112/10/01 112/12/31	90,000	90,000	0	0
26	劉定宇	生醫材料製程實 務課程之創新與 實踐：沉浸式專 題導向學習及問 題導向(PBL)實 作課程設計	教育部	112/08/01 113/07/31	342,525	342,525	0	0
27	游洋雁	先進半導體於永 續發展暨女科學 家之培育計畫	教育部	112/08/01 113/07/31	3,300,000	3,000,000	0	300,000
28	賴怡廷	112-113 年「全球 優秀青年學子來 臺蹲點計畫 (TEEP)	教育部	112/12/01 113/12/31	126,000	126,000	0	0
29	林孟芳	112-113 年「全球 優秀青年學子來 臺蹲點計畫 (TEEP)	教育部	112/12/01 113/12/31	136,500	136,500	0	0
30	黃啓賢	112-113 年「全球優 秀青年學子來臺蹲	教育部	112/12/01 113/12/31	252,000	252,000	0	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
		點計畫 (TEEP)						
31	劉定宇	112-113 年「全球優秀青年學子來臺蹲點計畫 (TEEP)」	教育部	112/12/01 113/12/31	1,134,000	1,134,000	0	0
32	賴怡廷	教育部 112 年新南向學海築夢「人工智慧於碳電極優化」	教育部	112/06/20 112/08/17	252,000	210,000	0	42,000
33	黃宗鈺	超穎材料應用於軍事陣地及武器系統之偽裝匿蹤技術開發(2/4)	國家中山科學研究院	112/01/01 112/12/31	2,318,227	2,318,227	0	0
34	劉定宇	電化學分析材料特性一批	國家原子能科技研究院	112/06/01 112/09/28	340,000	340,000	0	0
35	陳勝吉	112 年度結合大專校院辦理就業服務補助計畫	勞動部勞動力發展署北基宜花金馬分署	112/02/20 112/05/31	67,424	67,424	0	0
36	張麗君	氮碳鋁鉻薄膜特性優化開發	塞席爾商創大科技有限公司台灣分公司	112/01/01 112/09/10	600,000	0	600,000	0
37	游洋雁	精密 3D 塗佈之先進半導體製程製備高效能有機光電元件	鎧錮國際股份有限公司	112/01/01 112/12/31	500,000	0	500,000	0
38	張麗君	疏水鍍膜製備與耐久性之研究	美昕醫療器械(上海)有限公司	112/05/01 113/01/31	900,000	0	900,000	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
39	李志偉	優化電漿活化水機	福德綠能有限公司	112/05/01 112/08/31	160,000	0	160,000	0
40	劉定宇	綠能所-儲能材料之元素價態分析工作	台灣中油股份有限公司	112/03/20 113/03/18	388,500	0	388,500	0
41	黃啓賢	生物感測器之基板表面化學修飾評估	長典生物科技股份有限公司	112/07/01 113/06/30	300,000	0	300,000	0
42	陳志平	半導體材料分析計畫	新應材股份有限公司	112/07/01 112/12/31	100,000	0	100,000	0
43	陳志平	半導體之熱蒸鍍電極暨元件特性分析	永發欣業有限公司	112/07/01 113/04/30	200,000	0	200,000	0
44	黃裕清	半透明大面積鈣鈦礦太陽能模組(2/5)	四維精密材料股份有限公司	112/08/01 113/07/31	1,000,000	0	1,000,000	0
45	簡順億	AZ91D 鎂合金綠色環保前處理技術開發	生命樹健康數據有限公司	112/12/01 113/01/31	200,000	0	200,000	0
46	賴怡廷	軟性電路板之開發與可靠性分析	毅嘉科技股份有限公司	112/12/01 113/05/31	50,000	0	50,000	0
47	黃裕清	開發高效率寬能隙鈣鈦礦前驅物配方	前創科技股份有限公司	112/12/01 113/11/30	2,000,000	0	2,000,000	0
48	黃裕清	以固-液相轉變材料提升散熱能力	酷碼科技股份有限公司	112/11/01 113/07/31	500,000	0	500,000	0
49	阮弼群	真空腔體密封環電漿可靠度之研究	台灣氟材料股份有限公司	112/11/30 113/05/31	140,000	0	140,000	0
50	曾傳銘	延性鑄鐵應用破損分析	博唯特科技有限公司	112/12/01 113/11/30	50,000	0	50,000	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
51	劉定宇	碳量子點製作及衍生產品生物試驗研究	賈伯科技股份有限公司	112/12/20 113/08/31	100,000	0	100,000	0
52	李志偉、張麗君	純鎢奈米探針之生產技術開發	閎康科技股份有限公司	112/08/01 113/07/31	1,000,000	0	1,000,000	0
53	陳勝吉	2023 年台塑企業技術技練中心訓練認證合作計畫	台塑石化股份有限公司	112/01/01 112/12/31	396,576	0	396,576	0
54	林唯芳	5GABF 載板技術開發第一期：二氧化矽／環氧樹脂混成材料	南亞塑膠工業股份有限公司	112/04/10 112/08/31	445,000	0	445,000	0
55	林孟芳	氣膠毯隔熱性質提升	台灣塑膠工業股份有限公司	112/05/01 113/08/31	1,800,000	0	1,800,000	0
56	陳勝吉	第十八屆台塑企業應用技術研討會	台塑企業總管理處總經理室	112/02/01 112/06/30	990,740	0	990,740	0
57	張麗君	透明氧化物鍍膜之製備與特性研究	南亞塑膠工業股份有限公司	112/04/10 112/06/30	350,000	0	350,000	0
58	黃宗鈺	利用 Virtual Reactor PVT 預測 6 吋單晶 SiC 塊材的生長	台灣化學纖維股份有限公司	112/08/01 113/07/31	2,600,000	0	2,600,000	0
59	曾傳銘	材料與腐蝕基礎職務訓練班(四)	台塑石化股份有限公司	112/09/01 112/12/31	73,689	0	73,689	0
60	阮弼群	以 ALD 製作摻雜型三元高介電常數材料應用於金屬／絕緣層／矽(MIS) 結構之特性研究	南亞科技股份有限公司	112/08/01 113/07/31	1,508,100	0	1,508,100	0

項次	主持人	計畫名稱	委託單位	起訖日期	總計	政府	企業	本校
61	賴怡廷	MX 氧化反應優化之模擬研究(一)	台灣化學纖維股份有限公司	112/12/01 113/11/30	2,000,000	0	2,000,000	0
62	陳勝吉	2023 年度南亞塑膠工業股份有限公司員工培訓計畫	南亞塑膠工業股份有限公司	112/01/01 112/12/31	685,170	0	685,170	0
63	陳勝吉	2023 年度台塑企業員工培訓計畫	台塑石化股份有限公司	112/01/01 112/12/31	1,745,310	0	1,745,310	0
64	黃啓賢	石墨烯／軟性塑膠基板之性質評估-以 PET 為例	財團法人工業技術研究院	112/09/01 112/12/31	200,000	0	200,000	0
65	陳勝吉	112 年 iPAS 推動產學合作委託案-新北(ALL)	財團法人工業技術研究院	112/09/27 112/11/30	300,000	0	300,000	0
66	劉定宇	雙功能電化學-拉曼放大檢測晶片之開發	崇浩光電科技股份有限公司	112/09/01 113/08/31	72,000	0	72,000	0
合計					68,651,615	45,012,630	23,296,985	342,000

五、技術移轉或授權案件

單位:元

項次	教師	技術移轉或授權	計畫案名稱	廠商名稱	起訖日期	金額
1	劉定宇	技術移轉	石墨烯量子點/導電奈米複合高分子之抗菌及光觸媒自潔塗料製備及應用	森冠科技股份有限公司	112/06/01 115/05/31	100,000
2	黃裕清	技術移轉	低成本高度客製化卷對卷設備開發與效能驗證	喬集偉思特股份有限公司	112/06/01 115/05/31	112,000
3	阮弼群	技術移轉	無碳矽烷基胺前驅物於超大型積體電路閘極氧化層之原子層沉積技術開發	宇川精密材料科技股份有限公司	112/11/01 119/10/31	300,000
4	劉定宇	技術移轉	貴金屬奈米粒子/共軛高分子複合二維奈米片於光催化及可循環 SERS 生醫檢測之應用	崇浩光電科技股份有限公司	112/11/01 115/10/31	100,000

項次	教師	技術移轉 或授權	計畫案名稱	廠商名稱	起訖日期	金額
合計						612,000

六、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	生效日期
1	陳勝吉	明志科技大學	製造 p 型氧化亞銅薄膜之方法	發明專利	I790049	國內	112/01/11
2	張奇龍	明志科技大學	金屬玻璃薄膜之製造方法	發明專利	I792920	國內	112/02/11
3	彭坤增	明志科技大學	二氧化鈦溶液以及二氧化鈦薄膜的製備方法 MANUFACTURING METHOD OF TITANIUM DIOXIDE SOLUTION AND TITANIUM DIOXIDE FILM	發明專利	I793540	國內	112/02/21
4	彭坤增	明志科技大學	ELECTROPLATING METHOD	發明專利	US1154918 9B1	美國	112/01/10
5	謝章興 許哲豪 范天禧 張淑茜 劉品玟	明志科技大學	負離子產生設備	發明專利	I805084	國內	112/06/11
6	彭坤增	明志科技大學	電鍍方法	發明專利	I805196	國內	112/06/11
7	劉定宇 鄭有為	明志科技大學	複合層析紙及製備複合層析紙於表面增強拉曼散射檢測之方法	發明專利	I806017	國內	112/06/21
8	彭坤增	明志科技大學	MANUFACTURING METHOD OF TITANIUM DIOXIDE SOLUTION AND TITANIUM DIOXIDE FILM	發明專利	US1166754 0B2	美國	112/06/06
9	林孟芳	明志科技大學	摩擦發電機及其摩擦層的製作方法	發明專利	I809731	國內	112/07/21

項次	發明人	專利權人	專利名稱	類別	證書字號	專利國家	生效日期
10	陳志平	明志科技大學	具未稠合環核心結構之小分子受體材料、及應用其之有機光伏元件	發明專利	I819948	國內	112/10/21
11	謝章興	明志科技大學	Method for sterilizing ambient air using plasma-based smart window 電漿智慧窗戶	發明專利	US1175223 3B2	美國	112/09/12
12	謝章興	明志科技大學	電漿製造系統與用以在製造電漿時降低臭氧濃度之方法	發明專利	I824413	國內	112/12/01
13	黃啓賢	明志科技大學	製備生物分子感測器的方法	發明專利	I826739	國內	112/12/21
14	林孟芳	NANYANG TECHNOLOGICAL UNIVERSITY	WEARABLE TRIBOELECTRIC GENERATOR FOR ENERGY HARVESTING	發明專利	US1165858 6B2	美國	112/05/23
15	姚栢文	國立台灣科技大學	親水金屬薄膜及其濺鍍方法	發明專利	I792961	國內	112/02/11
16	姚栢文	國立台灣科技大學	Tattoo needle structure	發明專利	US1160753 3B2	美國	112/03/21
17	黃裕清	NATIONAL TAIWAN UNIVERSITY	Method for preparing perovskite solar cell	發明專利	US1171689 4B2	美國	112/08/01
18	賴怡廷	NATIONAL TSING HUA UNIVERSITY, Hsinchu (TW)	CALCINED HIERARCHICAL POROUS COMPOSITE	發明專利	US1176665 7B2	美國	112/09/26

七、專書

姓名	篇章及所屬專書名稱/或專書名稱	出版社/出版處所	ISBN 編號
劉定宇	Advanced Polymer Nanocomposites II	MDPI	9783036569208

八、榮譽

姓名	作品名稱	獲獎或榮譽名稱	頒獎機構名稱	獲獎日期
賴怡廷	台北市社會優秀青年	台北市社會優秀青年	台北市議會	112/03/26
賴怡廷	通過從環境廢物中收集的改性配體製備和優化金屬有機框架（MOF）用於廢水處理：減少環境和水污染的雙重策略	指導教授獎	誠美材料科技	112/11/25
賴怡廷	總統盃黑客松	國際競賽	總統府	112/09/24
林孟芳	海洋植物發電	111年度指導大專學生研究計畫研究創作獎	國家科學及技術委員會	112/06/21
張奇龍	一鍍鑽-高功率脈衝磁控濺射技術鍍製塗層在微鑽針之應用	學術獎-優選獎	中國材料科學學會	112/11/18
黃裕清	高效率半透明鈣鈦礦太陽能電池技術	學研創新獎	財團法人生技醫療科技政策研究中心	112/12/27
黃裕清	多元陽離子摻雜的鈣鈦礦化合物及鈣鈦礦太陽能電池	金牌獎	2023台灣創新技術博覽會	112/10/14
黃裕清	極弱光成像技術:捕捉不可見光之穿戴式眼鏡	未來科技獎	國家科學及技術委員會	112/08/31
張麗君	高功率脈衝磁控濺鍍製程佔空比對AlON膜層耐腐蝕性的影響估	海報論文競賽-優等	中華民國防蝕工程學會	112/08/26
張麗君	雨後春筍	微結構影像美學競賽-銅質獎	中國材料科學學會	112/11/18
李志偉	Low-cost, high-efficient photocatalytic hydrogen production green energy technology through water splitting	佳作	財團法人東元科技文教基金會	112/08/22
李志偉	應用於電路板、陶瓷基板以及碳纖維板加工之微小碳化鎢刀具鑽石鍍膜技術開發	研發創意實物獎	明志科技大學	112/06/09
李志偉	編織籃上的棉花團	金質獎	中國材料科學學會	112/11/18
李志偉	一枝獨秀金針菇	佳作	中國材料科學學會	112/11/18
簡順億	A Novel Green and Eco-Friendly Conversion Coating Technology on Aerospace Magnesium Alloys	學術獎	中國材料科學學會	112/11/20

姓名	作品名稱	獲獎或榮譽名稱	頒獎機構名稱	獲獎日期
簡順億	含氟磷酸鹽封孔處理對鎂鋁合金AZ31B微弧層耐蝕性研究	學術獎	中華民國防蝕工程學會	112/08/26
簡順億	在基材上形成塗層的方法與該方法所形成的塗層	傑出研究獎	2023台灣創新技術博覽會	112/10/14
簡順億	『鎂』麗救星—優『銹』幫手	學術獎	台塑企業	112/06/09
劉定宇	Flexible sensing device and manufacturing method thereof for surface enhanced Raman spectroscopy (SERS) and electrochemical analysis	產學合作獎	2023台灣創新技術博覽會	112/10/14
劉定宇	奈米二維矽酸鹽片/銀奈米粒子之抗菌與易潔塗料製備及應用	產學合作獎	國家科學及技術委員會	112/11/14

九、研究生論文

項次	研究生姓名	論文題目	指導教授
1	洪佳翔	開發導電高分子水凝膠電極於個人化抗癌藥物篩選及細胞生物感測應用	程志賢
2	簡明彥	磺化聚砵-石墨烯奈米複合質子交換膜於鈦液流電池之應用	劉定宇 謝建國
3	阮禾鈞	基於球殼介電質超材料建構的三維球形隱形斗篷	黃宗鈺
4	黃政頌	通過超材料完美吸收體的不同共振模態實現細胞成像	黃宗鈺
5	王文伶	(一)交聯富勒烯介面層提升有機太陽能電池性能之研究 (二)新型近紅外光非富勒烯小分子受體於有機太陽能電池之應用	陳志平
6	王翔禾	脈衝電流對 6061 鋁合金電漿電解氧化鍍層之機械性質及耐蝕性影響研究	曾傳銘
7	白森元	液相合成 ZIF-67及改質於水分解之應用	謝建國
8	吳峻豪	利用電聚合PEDOT:PSS氧化石墨烯與銀奈米粒子製備多功能生物感測器	劉定宇
9	呂侑昇	氧化鈦薄膜之高功率脈衝磁控濺鍍製程開發及光電性質研究	陳勝吉
10	宋雨澤	醋酸銀添加量對AZ31B鎂合金電漿電解氧化鍍層之抗菌性質及耐蝕性影響研究	曾傳銘
11	李俊頡	超薄金屬電極有機太陽能電池之應用研究	游洋雁
12	沈冠綸	高功率脈衝磁控濺射沉積氮化鋁鉻薄膜摻入鈦和鎢元素之特性研究	張奇龍

項次	研究生姓名	論文題目	指導教授
13	林怡婷	皺褶石墨烯結構應用於電化學生物感測器之研究	黃啓賢
14	林棣文	共軛高分子受體於光電元件之研究	陳志平
15	高盛宏	電化學轉換氫氧化鎳薄膜作為催化層直接生長奈米碳管應用於超級電容器	謝建國
16	張恩瑞	添加離子液體製備具有多重響應性能之PDMS/Graphene Oxide 雙層致動器	林孟芳
17	許善曜	低溫大氣電漿束的特性分析及最佳化及其應用於先進電子封裝基板	謝章興 曾傳銘
18	陳奕成	Ag及Sn元素添加對Zn-Sb薄膜之微結構 及熱電性質影響	陳勝吉
19	陳柏誠	尾帶修飾對雙波有機光電感測器的影響	黃裕清
20	陳翌弘	高功率脈衝磁控濺射沉積氮化鋁鉻薄膜摻入鉻矽和鈦矽元素之特性研究	張奇龍
21	黃斌峰	高功率脈衝磁控濺鍍製備Si - C - N和 Si - B - C - N鍍膜機械性質與高溫抗氧化之研究	張麗君
22	鄔維恩	有機鈣鈦礦/聚醯胺酸浮動式閘極系統 應用於電晶體型光記憶體	游洋雁
23	蔡奇融	疊加型高功率脈衝磁控濺鍍系統鍍製氮化銅薄膜之顯微結構及光電性質研究	陳勝吉
24	賴兆麒	電化學塗層導電聚合物對碳氈電極的表面改質於鈳氧化還原液流電池之應用	劉定宇
25	錢柏宇	狹縫塗佈混合陽離子型鈣鈦礦太陽能電池之研究	黃裕清
26	謝昭諒	溶液式石墨烯場效電晶體之滲流現象及其應用於生物感測器	黃啓賢
27	羅楷翔	沸石咪唑酯骨架 -67薄膜之合成及應用於微型超級電容器之研究	謝建國
28	蘇俊宇	製作氧化鉬 (MoOx) 蓋層於二氧化鈳 (VO2) 薄膜之熱致變色特性研究	阮弼群
29	蘇皇齊	以原子層沉積技術製作鋁摻雜二氧化鈳於金氧半結構之應用	阮弼群
30	阿里	The Physical and Electrical Properties of Cr-Doped TiO2/VO2 Stacks for Thermochromic Application	阮弼群
31	莊珉禎	磁性元素摻雜對碲化鉍薄膜之顯微結構及熱電性質影響	陳勝吉
32	劉禹呈	低電流導引製備AZ91D鎂合金錳酸鹽化成皮膜之機制及特性研究	簡順億
33	白嘉欣	通過支援耳語廊模式的雙曲超介面達成表面電漿奈米雷射	黃宗鈺