

洪國永教授個人資料

1. 開發康美(ComMed)人工牙根，協助長庚醫學科技公司取得台灣衛生福利部(2015.1)與美國 FDA(2015.6)上市許可
2. 中國機械工程學會 101 年度 優秀青年工程教授獎
3. 獲得第七屆(2011)、十一屆(2015)上銀機械碩士論文獎
4. 連續多年獲得科技部獎勵優秀人才榮譽
5. 中等學校教師資格-電機科、數學
6. 可攜式血糖計、ECG 開發經驗
7. 主持 103 年度專題研究計畫，計畫名稱：整合創新微分光鏡元件設計暨製造技術之新穎微投影系統研究 III，參加科技部工程司自動化學門 103 年度專題研究計畫成果發表會榮獲計畫成果優秀海報獎(104.11)
8. 2012 全國技專校院學生實務專題製作競賽暨成果展創業類群全國第一名、2011 榮獲機械與動力學群 全國第二名(2011.5.28)、2013 機械與動力機械群全國第三名(2013.5.25)
9. 勞動部機電整合職類乙、丙級技術士技能檢定術科測試監評、TQC+ 基礎零件設計證照(Pro-E Creo 2.0)、ORCAD PCB 證照

著作及執行研究計畫目錄

後學具有 EE、MEMS 與醫療機電之背景，具有勞動部機電整合職類乙、丙級技術士技能檢定術科測試監評資格。曾獲得中國機械工程學會 101 年度優秀青年工程教授獎、上銀機械碩士論文獎...等榮譽，亦有專書電子學基礎理論、電子學（進階應用）（第十版）（楊棧雲、洪國永、張耀鴻編譯）出版。早期研究之成果主要表現於：人工牙植體表面改質技術[已由合作廠商建置量產線及申請 GMP 通過(GMP 1067, 2014.4.1)、醫療器材上市許可(樣品皆經德國 TUV ISO 10993 認證通過)衛部醫器製字第 004831 號通過(2015.1.23)及第三類醫療器材 FDA 510(k)通過 (2015.6.15)]、生醫微米光機電系統(Bio Micro Opto-Electro-Mechanical Systems) 及微型化光學關鍵零組件之設計及製造。

近五年所執行之產學合作案金額超過 1500 萬元，專注於智慧化系統(AOI, AGV)、醫療器材及醫材 Bio active materials...研究及開發。目前已完成兩台高精度自動化及 AOI 光學檢測設備，協助廠商用於生產中之瑕疵檢測(檢測精度達 10 um，效能 14 個工件/分鐘)。

(一)期刊論文

1. Wen-Hui Kuan, Yi-Show Hu, Chen-Yi Chiu, Kuo-Yung Hung and Shan-Shan Chou, "Microwave-Catalyzed Conversion of Phenolic Resin Waste to Activated Carbon and Its Applications for Removing Ammonium from Water," Catalysts, Volume 11, Issue 7, 783, 2021.
2. Haidee Mana-ay, Chiu-Yen Wang, **Kuo-Yung Hung**, Pin-Yi Chen, Chi-Shun Tu, Cheng-Sao Chen, "E-field poling effect on photosensitivity of samarium-doped bismuth ferrite ceramics," Ceramics International, Volume 47, Issue 9, pp. 12574-12582, 1 May 2021 (**SCI, Impact Factor: 3.45, Ranking: 2/27**).
3. Pin-Yi Chen, Sheng-Fen Wang, R. R. Chien, Chi-Shun Tu, Kuei-Chih Feng, Cheng-Sao Chen, Kuo-Yung Hung, V. Hugo Schmidt, "Evolution of the microstructural and mechanical properties of hydroxyapatite bioceramics with varying sintering temperature", Ceramics International, Volume 45, Issue 13, pp. 16226-16233, 2019 (**SCI, Impact Factor: 3.45, Ranking: 2/27**).
4. Yun-Ju Chuang, **Kuo-Yung Hung***, Yi-Wei Tsai, "Design, fabrication, and characterization of a multidimensional prism", Applied Optics, Vol. 58, No. 7, 2019 (SCI, Impact Factor: 1.973). **Atomic and Molecular Physics, and Optics (Q2)**
5. **Kuo-Yung Hung***, Hong-Chen Lai, Yung-Chin Yang, and Hui-Ping Feng, "Characterization of Hydroxyapatite (HA) Sputtering Targets by APS Methods", Coatings, 7(11), 197, 2017 (SCI, Impact Factor:2.175).
6. **Kuo-Yung Hung***, Yi-Chih Lin and Hui-Ping Feng, "The Effects of Acid Etching on the Nanomorphological Surface Characteristics and Activation Energy of Titanium Medical Materials", Materials, 10, 1164, 2017 (SCI, Impact Factor: 2.654).

7. **Kuo-Yung Hung***, Hong-Chen Lai and Hui-Ping Feng, “Characteristics of RF-Sputtered Thin Films of Calcium Phosphate on Titanium Dental Implants”, *Coatings*, 7(8), 126, 2017 (SCI, Impact Factor:2.175).
8. H. C. Lai, H. H. Tsai, **K. Y. Hung***, H. P. Feng*, “Fabrication of Hydroxyapatite Targets in RF-sputtering for Surface Modification of **Titanium Dental Implants**”, *Journal of Intelligent Material Systems and Structures*, Vol. 26, 9: pp. 1050-1058, June 2015. (SCI, Impact Factor:2.172, Ranking:68/251 in Materials Science, Multidisciplinary)
9. Xu-Hang Liu, His-Fu Shih, **Kuo-Yung Hung**, and Chuen-Lin Tien, “Liquid Crystal Compensator Using Dual-Layer Electrodes for the Optical Pickup Head Application,” *IEEE Trans. on Magn.*, Vol. 50, No. 7, July 2014.(SCI IF:1.243)
10. Yun-Ju Chuang, Shih-Hao Huang, Ying-Chuan Chen, **Kuo-Yung Hung*** (**Corresponding Author**), “Application of the Inclined Exposure and Molding Process to Fabricate a Micro Beam-Splitter with Nanometer Roughness,” *Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems*, Vol. 19, Issue 3, pp. 461-470, 2013.03. (SCI IF:1.195)
11. **Kuo-Yung Hung***, Sung-Cheng Lo, Chung-Sheng Shih, Yung-Chin Yang, Hui-Ping Feng[‡], Yi-Chih Lin, “Titanium Surface Modified by Hydroxyapatite Coating **for Dental Implants**,” *surface and coatings technology*, Volume 231, 25, pp. 337–345, Sep. 2013. (SCI, Impact Factor:2.374)
12. **Kuo-Yung Hung***, Chun-Fu Lee, Yi-Wei Tsai, ”Design and Fabrication of a Novel Prism for Micro-Optical System,” *Applied Optics*, Vol. 51, No. 16, June 2012. (SCI IF: 1.707)
13. S. H. Huang, T. C. Chien, and **K. Y. Hung**, “Selective deposition of electrospun alginate-based nanofibers onto cell-repelling hydrogel surfaces for cell-based microarrays”, *Current Nanoscience*, , Volume 7, Number 2, , pp. 267-274, April 2011. (SCI IF= 1.47)
14. Y. J. Chuang, T. H. Liao, P. R. Chen, **K. Y. Hung*** (**Corresponding Author**), “Experimental Investigation of a Display Chip Incorporating an Electrostatic Actuating Polymer Membrane,” *Journal of Micromechanics and Microengineering*, 20,085020, July 2010. (SCI IF: 2.281)
15. Shih-Hao Huang, Hui-Jung Hsueh, **Kuo-Yung Hung**, “Configurable AC electroosmotic generated in-plane microvortices and pumping flow in microchannels,” *Microfluidics and Nanofluidics*, DOI 10.1007/s10404-009-0453-2, Volume 8, Number 2, pp. 187-195, February 2010. (SCI IF: 3.507) Subject category "Instruments & instrumentation": Rank 3 of 61, Subject category "Nanoscience & Nanotechnology": Rank 20 of 64, Subject category "Physics, fluids & plasmas": Rank 3 of 31)
16. **Kuo-Yung Hung***, Yi-Ko Chen, Shih-Hao Huang, Der-Chi Shye, “Molding and Hot Forming Techniques for Fabricating Plastic Aspheric Lenses with High Blue-Light Transmittance,”

- Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems, Volume 16, Issue 8, pp. 1439-1444, 2010. (SCI IF: 1.071). 113/247 in Engineering, Electrical & Electronic
17. **Kuo-Yung Hung***, Chun-Der Cheng, Ying-Chuan Chen, "Thermal-Deformation (Mechanical) Analysis of the Polymer Micro-Mirror Optic Device," Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems, Volume 16, Issue 8, pp. 1643-1647, 2010. (SCI IF:1.071).
 18. **K. Y. Hung***, Y. J. Chuang, T. H. Liao, Der-Chi Shye, Shih-Hao Huang, "Research on Electrostatic Actuator Polymer Thin-Film for Controlling Light Scattering Phenomena," Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems, Volume 16, Issue 8, pp. 1649-1655, 2010. (SCI IF:1.071).
 19. S. H. Huang, Z. Y. Yu, C. K. Lin, and **K. Y. Hung**, "Dynamically adjustable three-dimensional gray masks operated by electrostatic force modulation for the fabrication of microlens arrays in microchannels", Journal of Micro/Nanolithography, MEMS, and MOEMS (JM3), 9, 043002, 2010 (SCI IF: 1.194) (103/247 Engineering, Electrical & Electronic)
 20. **Kuo-Yung Hung***, Chao-Chih Fan, Fan-Gang Tseng, and Yi-Ko Chen, "Design and fabrication of a copolymer aspheric bi-convex lens utilizing thermal energy and electrostatic force in a dynamic fluidic," Optics Express Vol. 18, Iss. 6, pp. 6014–6023, March 2010. (SCI IF: 3.753) (5/78 in Optics)
 21. **Kuo-Yung Hung***, Liang-Wei Chang, Fan-Gang Tseng, Jin-Chern Chiou, Yi Chiu, "Optimum Electrostatic Force Control for Fabricating a Hybrid UV-Curable Aspheric Lens", Journal of Micromechanics and Microengineering, 20, 7, 075001, 2010. (SCI IF: 2.281)
 22. **K. Y. Hung***, P. S. Wu, "Application of the Surface Free Energy Minimization Principle to Modify the Indentation of a Polymer Mirror Structure," Applied Optics, Vol. 48, Iss. 33, pp. 6528–6536, November 2009. (25/71 in Optics) (SCI IF: 1.707) (23/78 in Optics)
 23. Yi Chiu, Hsi-Fu Shih, Jin-Chern Chiou, Shih-Tung Cheng, **Kuo-Yung Hung**, Fan-Gang Tseng, Weileun Fang, "Design and fabrication of a small-form-factor optical pickup head," , IEEE Transactions of Magnetics (ISSN: 0018-9464, published by IEEE.) IEEE Transactions on Magnetics, Vol. 45, Issue 5, pp. 2194-2197, May 2009. (SCI IF 1.061). 115/246 in Engineering, Electrical & Electronic.
 24. Der-Chi Shye, Chen-Chia Chou, Bo-Heng Liou, **Kuo-Yung Hung**, and Pi-Chun Juan, "Effects of Laser Treatment for The Pb(Zr, Ti)O₃/(La, Sr)MnO₃ Multifilm Prepared onto The Stainless Steel Substrate", accepted by the special issue of "Ferroelectrics", Vol. 383 Issue 1, p40-49, June 2009 (紙本出刊). (SCI IF: 0.562). 144/192 in Materials Science, Multidisciplinary
 25. **Kuo-Yung Hung***, Fan-Gang Tseng and Hwa-Seng Khoo, "Integrated Three-Dimensional

- Optical MEMs for Chip-Based Fluorescence Detection,” *Journal of Micromechanics and Microengineering*, Vol. 19, No. 4, 045014, pp. 1-10, March 2009. (SCI IF:1.997)
26. **Kuo-Yung Hung***, Po-Jen Hsiao, Fan-Gang Tseng, Miao-Chin Wei, “From Spheric to Aspheric Solid Polymer Lenses: A review,” *Optofluidics for Lab on a Chip for a new open access journal Advances in Optoelectronics*, Vol. 2011, Article ID 197549, 14 pages, 2011. (CSA Illustrata - Natural Sciences; CSA Illustrata – Technology; Ei Compendex; INSPEC; Open J-Gate; Scopus)
 27. **Kuo-Yung Hung***, Po-Jen Hsiao, Fan-Gang Tseng, “Optic MEMS –Development of Blu-ray micro pickup head and Fabricate Technology of micro-aspheric lens (II),” *Journal of the Chinese Monthly Society of Electronic Engineers*, Vol. 164, pp. 151-158, March 2009.
 28. **Kuo-Yung Hung***, Po-Jen Hsiao, Fan-Gang Tseng, “Optic MEMS –Development of Blu-ray micro pickup head and Fabricate Technology of micro-aspheric lens (I),” *Journal of the Chinese Monthly Society of Electronic Engineers*, Vol. 162, pp. 130-141, January 2009.
 29. **Kuo-Yung Hung*** and Jung-Chiang Liao, ”The Application of Fresnel Equations and Anti-Reflection Technology to Improve Inclined Exposure Interface Reflection and Develop a Key Component Needed for Blu-ray DVD--Micro-Mirrors,” *Journal of Micromechanics and Microengineering*, Volume 18, Number 7, 075022, pp. 1-9, June 2008. (SCI IF: 2.233, ranked 12/112 in Mechanics)
 30. **Kuo-Yung Hung***, Te- Hsien Liang, “Application of Inclined-Exposure and Thick Film Process for High Aspect-Ratio Micro Structures on Polymer Optic Devices,” *Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems*, Volume 14, Numbers 9-11, pp. 1217-1222, 2008. (SCI IF: 1.229).
 31. Kuo-Yung Hung*, Chih-Chun Pei, Chih-Jen Hu and Tun-Chun Yang, “Manipulation Image Processing Algorithmic Technology to Realize 1.8” RGBW Transflective TFT-LCDs with Adjustable Colour Gamut”, *DISPLAYS*, Volume 29, Issue. 5, pp. 526-535, December 2008. (SCI IF: 1.768) (13/56 in INSTRUMENTS & INSTRUMENTATION) (17/64 in optics)
 32. **Kuo-Yung Hung***, Fan-Gang Tseng, Tsung-Hsin Liao, “Electrostatic force Modulated Micro-Aspherical Lens for Optical Pickup Head,” *Journal of Microelectromechanical Systems*, Vol. 17, Number 2, pp. 370-380, April 2008. (SCI IF: 2.226) 6/105 in ENGINEERING, MECHANICAL.
 33. **Kuo-Yung Hung***, Tun-Chun Yang, Chih-Chun Pei, Chih-Jen Hu and Chih-Ming Chang, “A Dual-gap RGBW Transflective TFT LCD with Adjustable Color Gamut,” *Journal of the Society for Information Display* 15/3, pp. 187-191, March 2007. (SCI IF: 1.017) (107/192, MATERIALS SCIENCE, MULTIDISCIPLINARY)
 34. **K. Y. Hung***, F.G. Tseng, H. P. Chou, “Application of 3D Gray Mask for the Fabrication of Curved SU-8 Structures,” *Journal of MicroSystem Technologies (Change to Microsystem*

Technologies-Micro-and Nanosystems-Information Storage and Processing Systems), Volume 11, Numbers 4-5 , pp. 365-369, 2005 (SCI). (Times Cited 6/1)

35. **K. Y. Hung***, H. T. Hu, and F. G. Tseng, “Application 3D Glycerol-Compensated Inclined-Exposure Technology to Integrated Optical Pick-Up Head,“ Journal of Micromechanics and Microengineering, 14, pp. 975-983, 2004 (SCI). (Times cited 19/6)
36. S. R. Huang, K. Y. Hung, Y. H. Chen, “Emission Control Research of Spot Markets for Separate Generation Systems,“ IEE Proceedings-Generation Transmission and Distribution, Vol. 147, No. 6, pp. 425-431, November 2000 (EI).

(二)專利

國內外專利與發明				
發明人	專利或發明名稱	國別	專利證書號	獲得時間
1.曾繁根;洪國永;胡恆蒼	微型光學讀取頭模組與其製造方法及其接物透鏡之製造方法	中華民國	I 225246	2004.12.11
2.曾繁根;洪國永;胡恆蒼	Micro Optical Pickup Head Module, Method of Manufacturing the Same and Method of Manufacturing the Objective Lens of the Same	美國	7012762	2006.3.14
3.曾繁根;洪國永;胡恆蒼	微型光学读取头模块与其制造方法及其取景物镜制造方法	中國大陸	ZL 03152585.7	2006.3.22
4.蘇瑋柏;貝志駿;吳仰恩;洪國永;黃郁惠	色彩轉換方法以及電路	中華民國	I 285862	2007.8.21
5.洪國永;張志明;胡至仁;貝志駿;陳志豪	顯示面板及其顯示品質改善方法	中國大陸	ZL 200610006002.7	2006
6.洪國永;張志明;胡至仁;貝志駿	半穿透半反射型顯示器及其製造方法、顯示器製造方法	中國大陸	ZL 200610082729.3	2006
7.胡至仁;張志明;貝志駿;洪國永	半透射半反射式液晶顯示器及其顯示品質改善方法	中國大陸	ZL 200610106159.7	2006
8.蘇瑋柏;貝志駿;吳仰恩;洪國永;黃郁惠	顏色轉換方法以及電路	中國大陸	ZL 2005 1 0091973.1	2005
9.廖堂煌;洪國永(2012 中止付費)	電致變色薄膜裝置	中華民國	M 338359	2008.8.11
10.Kuo-Yung Hung, Chih-Ming Chang, Chih-Jen Hu,	Transflective liquid crystal displays and methods for	美國	7545467	2009.6.9

Chih-Chun Pei	fabricating the same			
11. Chih-Jen Hu, Chih-Ming Chang, Chih-Chun Pei, Kuo-Yung Hung	Sub-pixel structure in transflective color liquid crystal display	美國	7564530	2009.7.21
12. Kuo-Yung Hung, Chih-Ming Chang, Chih-Jen Hu, Chih-Chun Pei, Chih-Hao Chen	Four-color transflective color liquid crystal display	美國	7636076	2009.12.22
13. 洪國永;張志明; 胡至仁;貝志駿; 陳志豪	顯示面板及其顯示品質改善 方法	中華民國	I 319103	2010.01.01
14. 史德智;金立德; 洪國永;謝滄岩; 王殿臣	非侵入式光學血糖測量儀	中國大陸	201020002832.4	2010
15. 史德智;唐明中; 王殿臣;許禮泛; 洪國永	具有揮發物排放結構的血糖 測試機	中國大陸	201020003839.8	2010
16. 史德智;金立德; 洪國永;王殿臣; 唐明中	非侵入式血糖計電極結構	中國大陸	201020291654.1	2010
17. 史德智;金立德; 洪國永;謝滄岩; 王殿臣	非侵入式之光學檢測血糖測 試機	中華民國	M 384315	2010.7.11
18. 史德智;唐明中; 王殿臣;許禮汎; 洪國永	具揮發物排放結構之血糖測 試機	中華民國	M 385694	2010.8.1
19. Kuo-Yung Hung, Fan-Gang Tseng	Portable optical detection chip and manufacturing method thereof	美國	7851251	2010.12.14
20. 史德智;金立德; 洪國永;王殿臣; 唐明中	非侵入式血糖計電極結構	中華民國	M 394799	2010.12.21
21. 洪國永;張志明; 胡至仁;貝志駿	半穿透半反射型顯示器及其 製作方法，顯示器之製作方 法	中華民國	I 337668	2011.2.21
22. 胡至仁;張志明; 貝志駿;洪國永	半穿透半反射式液晶顯示器 及其顯示品質改善方法	中華民國	I 338174	2011.3.1
23. Kuo-Yung Hung, Fan-Gang Tseng	Portable optical detection chip and manufacturing method thereof	美國	7902619	2011.3.8
24. 洪國永;曾繁根; 施錫富	微型光學讀取頭光路裝置及 其運作方法	中華民國	I359420	2012.3.1
25. Kuo-Yung Hung, Fan-Gang Tseng	Immersion lithography apparatus and tank thereof	美國	8189175	2012.5.29
26. 馮慧平;洪	一種牙植體表面處理的方法	中華民國	I 394559	2013.5.1-2

國永.楊永欽.彭坤增.鄭春德					030.10.6
27.史德智,許禮汎,王殿臣,洪國永,阮弼群	電化學供電方法及其裝置	中華民國	I410624		2013.10.1 2029.12.22
28.史德智,許禮汎,王殿臣,洪國永,阮弼群	電化學供電方法及其裝置	中國大陸	I268416		2013.9.11
29.洪國永;曾繁根	immersion lithography apparatus and tank thereof	美國	US 8,755,029		2014.6.17
30.洪國永、吳品賢、林憲維、楊正峯	具精密對準之傾斜曝光機構	中華民國	I461856		2014.11.21 -2028.9.23
31.洪國永;曾繁根	lens device and method of manufacturing the same	美國	US 9,036,271 B2		2015.05.19
32.彭顯智;林沛彥;洪國永	製備微奈米探針設備及方法	中華民國	I530688		2016.04.21 -2034.11.17
33.洪國永;馮慧平;賴泓成	經表面處理的人工骨材及其表面處理	中華民國	I584788		2017.6.1-2 033.1.24
34.洪國永;朱承軒;廖浩延;吳婭恂	濕熱敷袋	中華民國	I745268		2021.11.1- 2041.7.7

(三)歷年研究計劃案

年度	計畫名稱	貢獻
110	子計畫:工安實體訓練教室-轉動及輸送設備機械性危害防護編撰與教育訓練實施計畫	主持人
110	機能性奈米纖維與複合骨材創新產品開發在醫療領域之應用暨女性研發人才培育	主持人
110	應用於半導體設備之重要零組件原料特性材質研究及失效分析 II	主持人
110	產學計畫-應用電紡技術開發牙周再生膜之研究	主持人
110	產學技轉案-提升無人載具 lidar 訊號對於高穿透率障礙物辨識率演算程式 (T01-110-E002)	主持人
109	科技部-應用奈米材料於 PEEK 骨植入物表面改質之設計、製造及生物特性評估 II MOST 109-2221-E-131-009 -	主持人
109	產學計畫-電紡絲設備進行醫療器材試量產計畫	主持人
109	應用於半導體設備之重要零組件原料特性材質研究及失效分析	主持人

109	產學計畫-PET 塑膠成型品及射出模具之智慧設計、變更與有限元素法之模流分析	共同主持人
108	科技部-應用奈米材料於 PEEK 骨植入物表面改質之設計、製造及生物特性評估 MOST 108-2221-E-131-026 -	主持人
108	Barcode 式無人搬運車	主持人
108	產學技轉案-可攜式電子產品關鍵零組件創新檢測技術	主持人
107	科技部-仿生設計且易刺穿之可溶性微針頭陣列形貌設計及製造技術(III)	主持人
107	產學計畫-裝飾球金屬反射層半自動化打藥水設備設計及開發	主持人
107	產學計畫-電子零組件瑕疵檢測設備之自動化光學檢測技術開發及應用	主持人
107	產學計畫-應用機器手臂於瞄準、發射物體之模組化設計	主持人
107	產學計畫-具量產效能裝飾球色漆附著性表面塗裝技術	主持人
107	產學計畫-無線操控式移動平台設計 I O01-107-M010	主持人
106	科技部-仿生設計且易刺穿之可溶性微針頭陣列形貌設計及製造技術(II)	主持人
106	產學計畫-無線操控式自動化導引搬運車雛型開發 I	主持人
106	產學計畫-裝飾球色漆附著性表面塗裝技術-III	主持人
105	科技部-仿生設計且易刺穿之可溶性微針頭陣列形貌設計及製造技術 I	主持人
105	產學計畫-創新鈦牙植體表面改質複合技術之研製與開發(VI)	主持人
105	產學計畫-裝飾球色漆附著性表面塗裝技術-II	主持人
104	產學計畫-增加裝飾球色漆附著性表面塗裝技術	主持人
104	產學計畫-創新鈦牙植體表面改質複合技術之研製與開發(V)	主持人
104	科技部-應用類生物驅動技術於智慧眼晶片開發之研究(I)	主持人
104	產學計畫-台塑石化股份有限公司-油漆、焊接及保溫 QC 訓練(105.1-105.4)	主持人
103	產學計畫-創新鈦牙植體表面改質複合技術之研製與開發(IV)	分項計畫主持人
103	產學計畫-盛群 HOLTEK MCU 應用技術開發 (103.4.1-104.1.31)	主持人
103	產學計畫-航空零組件製造之關鍵技術開發 (103.4.1-103.12.31)	主持人
103	科技部-整合創新微分光鏡元件設計暨製造技術之新穎微投影系統研究	主持人

	(III)	
102	科技部-整合創新微分光鏡元件設計暨製造技術之新穎微投影系統研究(II)	主持人
101	產學計畫-“鈦牙植體 SLA 表面改質技術之研製與開發-第三期”, 長庚醫學科技股份有限公司經費支持. (101.9~102.8). (獲核主持費：10,000 元/月)	分項計畫主持人
101	科技部-整合靜電致動高分子薄膜顯示晶片之製程設計暨理論研究(II)	主持人
100	科技部-應用於微投影系統中之分光微鏡面設計及製造方法研究 100-2221-E-131-024- (獲核主持費：10,000 元/月)	主持人
100	產學計畫-“鈦牙植體 SLA 表面改質技術之研製與開發-第二期”, 長庚醫學科技股份有限公司經費支持. (100.8~101.7). (獲核主持費：10,000 元/月)	分項計畫主持人
99	科技部-高分子微鏡面光電元件之機械熱型變及光學分析 99-2221-E-131-012-	主持人
97-99	科技部-2008.12.1~2011.7.31, 三明治技職教育學生科學素養與基本能力之研究--運用多元化教學評量策略改善並提升多元入學技專院校學生之物理學習成效：以機械系光機電領域學生為例(基礎應用科學教育) (97.12.1~100.7.31) NSC 97-2511-S-131-005-MY3 (獲核主持費：10,000 元/月)	主持人
99	產學計畫-“鈦牙植體 SLA 表面改質技術之研製與開發-第一期”, 長庚醫學科技股份有限公司經費支持. (99.7~100.7). (獲核主持費：10,000 元/月)	分項計畫主持人
99	產學計畫-計畫主持人,“光學檢測系統積體化技術開發”, 工研院量測中心, 2010.04~2010.11. (獲核主持費：10,000 元/月)	主持人
98	科技部-以序列無限制最小化技術最佳化藍光微非球面透鏡 3D 絕對形貌即時量測系統 II NSC 98-2221-E-131 -021 -	主持人
97	產學計畫-“可攜式生理監測儀表之研發”, GLU001, 長庚醫材公司/明志科技大學經費支持. (97.9~99.2)	分項計畫主持人
97	科技部-以序列無限制最小化技術最佳化藍光微非球面透鏡 3D 絕對形貌即時量測系統(獲核主持費：10,000 元/月) NSC 97-2221-E-131-017-	主持人
96	科技部-以自有技術發展具對準及精密角度控制之傾斜曝光機制 (獲核主持費：10,000 元/月) NSC 96-2622-E-131-009-CC3	主持人
96	科技部-軟性高分子薄膜材料靜電-機械-光特性之分析以發展新型顯示技術之研究 (獲核主持費：10,000 元/月) NSC 96-2221-E-131-004	主持人
95-99	經濟部學界科專計畫-微型化與全像光資訊儲存技術之開發 95-EC-17-A-07-S1-011(獲核主持費：10,000 元/月)	分項計畫

96	國科會大專生暑期計畫:應用田口法製作具 mm 等級厚膜負型光阻及光學等級 dove prism NSC 96-2815-C-131-001-E	指導教授
95	科技部-應用於光電元件並具可攜式.低成本及低雜訊直流高壓電源模組之開發 (獲核主持費：10,000 元/月) NSC 95-2622-E-131-007-CC3	主持人
94	科技部-整合 CMOS 及 MEMS 技術之微型螢光感測晶片暨低雜訊無變壓器直流高壓驅動電路之研製 NSC 95-2221-E-131-001	主持人

(四)學術榮譽及競賽獲獎事蹟

1. 2021.8.6,第一屆全國 AI 圖像辨識應用競賽 大專校院組佳作,學生 陳俊延 江彥霆 汪麒名 (智泰科技股份有限公司)
2. 2021.5.28 台灣機電工程國際學會 2021 年會暨第六屆全國學術研討會 福星熱能創意競賽佳作獎,中原大學 桃園市 .居家照護應用類別(DHT037),高效能居家照護濕熱敷墊產品開發,廖浩延 朱承軒 洪國永
3. TPC, ICSS 2020 International Conference on Smart Sensors (2020.6)
4. 2018 Micro Total Analysis Systems (MicroTAS) conference Local Arrangement Committee
5. TPC member, The 14th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems (2019 IEEE NEMS).
6. TPC member, The 13th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems (2018 IEEE NEMS).
7. TPC member, The 2016 International Conference on Innovative Material Science and Technology (IMST2016).
8. TPC, The International Conference on Biological Engineering and Pharmacy (BEP2016)
9. **第十一屆上銀機械碩士論文獎**,“氫氧基磷灰石燒結與電漿噴塗靶材之薄膜濺鍍製程與表面性質研究 (學生-賴泓成)”,科技大學特別獎.2015.03.
10. 承辦第九屆盛群盃全國競賽,2014.11.
指導專題生 涂元德以”可撓式微透鏡陣列快速造技術”獲得 2013 全國技專校院學生實務專題製作競賽暨成果展 機械與動力機械群全國第三名,2013.5.25.
11. 中國機械工程學會 101 年度 優秀青年工程教授獎,101.12.7
12. 明志科技大學工學院 100 學年度教學優良教師
13. 馮慧平.洪國永老師共同指導之專題生賴泓成,以”可促進成骨細胞快速生長之人工牙植體表面塗層材料燒結與靶材之自行研製”,獲得 2012 全國技專校院學生實務專題製作競賽暨成果展創業類群全國第一名,2012.5.27. (該獎項今年自 1360 件全國各系所推薦之優秀專題中,先精選出 135 件作品參加各類組決賽,各組亦可同時報名創業類競賽,該生榮獲該項競賽全國第一).
14. 共同指導之專題生賴泓成參加第十屆台塑關係企業應用技術研討會,同時獲得**研發論文學校組優勝、研發實務競賽第一名及壁報論文競賽佳作之優異成績**,2012.6.28。
15. Exhibition Co-Chair, The 4th International Symposium on Microchemistry and Microsystems (ISMM 2012), Hsinchu, Taiwan, June 10-13, 2012.
16. **第七屆上銀機械碩士論文獎**,“最佳化 SU-8 高分子傾斜微鏡面粗糙度之製程參數暨材料物理特性探討 (學生-吳品賢)”,科技大學特別獎.2011.1
17. 以論文”Integration the back-side inclined exposure technology to fabricate the 45° k-type prism with nanometer roughness”獲得**第七屆 IEEE-NEMS 2012 “Finalist of best conference paper award”**,會議地點:日本京都,2012.3.5-8.(會議論文共約 300 篇,入選最後四篇大會最佳論文之一)
18. **第二屆 iCAN 奈微米應用技術國際競賽** 台灣主辦人,2011.2.21
19. 專題生 蔡議緯 以”免除石膏精磨之新穎批次化微稜鏡製造技術”參加 **100 年度全國技專校院學生實務專題製作競賽暨成果展** 榮獲機械與動力學群 全國第二名,2011.5.28.
20. **第一屆 iCAN 2009 微奈米應用技術國際競賽**(1st International Contest of Application in Nano-micro Technologies) 台灣第三名,2009.9.26.
21. 1st International Contest of Applications in Nano-Micro Technology (Ican'2009)
榮獲 Special Award. 初賽由超過 1500 名學生,來自七國中 60 所大學,超過 400 隊伍報名參加。由各國評選 2-3 隊作決賽,最後由 17 隊中脫穎而出,獲得 special awards 之肯定。
22. **第十三屆奈米工程暨微系統研討會** 大會秘書暨 session chair, 新竹交通大學,2009.7.9-10.
23. 洪國永、陳盈全,“45°微型光學反射鏡”2010全國微細製造競賽 第三名. 指導單位:教育部

技職司.主辦單位：東南科技大學微/奈米科技研究中心、東南科技大學機械工程系 6.4

24. 共同指導研究生羅松成以“電漿噴塗氫氧基磷灰石於牙植體之研究,” 獲得第八屆台塑研討會學校組論文競賽績優獎, June 18, 2010.
25. 洪國永、陳宜課、范朝智、曾繁根、施錫富、邱一、邱俊誠、方維倫, “利用熱能與靜電能於動態流體中以發展高分子聚合物雙凸非球面透鏡新穎之製造技術”, 第十四屆奈米工程暨微系統技術研討會, 國立中山大學舉行, 2010.9月2 - 3日, 佳作論文獎.
26. 98 年度明志科技大學優良教師研究獎, 2009.9.28.
27. 100 年度明志科技大學優良教師研究獎, 2011.9.28.
28. Material science and engineering, Journal of Mechanics, Surface and Coatings Technology, IEEE sensors, Optics Letters, Automation, Journal of Micromechanics and Microengineering, Optics express, IEEE sensors and actuators A, IEEE Transactions on Industrial Electronics, Journal of Functional Biomaterials, Journal of Electronic Materials, Journal of Applied Science and Engineering, Metals, Micromachines...Journal reviewer.
29. Session chair of International Conference, 5th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, Xiamen, China, 20-23 January, 2010.
30. **Session chair of International Conference**, The Third IASTED International Conference on ENERGY AND POWER SYSTEMS , Phuket, Thailand, April 2-4, 2007.
31. 第三屆盛群杯大賽評審, 2007.11.17
32. 洪國永, 廖容瑋, 曾繁根, 蔡淙偉, “藍光微型光學讀取頭之最佳化微鏡面製造技術,” 第七屆台塑研討會, 長庚大學, C-14, June 27, 2008.(學校組論文競賽績優獎)
33. 第四屆盛群杯大賽評審, 2008.11.15

(五)國際會議論文

1. Tsung-Tse Ho, Kuo-Yung Hung, “Integrating Mechatronics and Additive Manufacturing (3d Printing) Technologies to Investigate and Realize Bionic Legs,” MSEC 2020, University of Cincinnati, Cincinnati, Ohio, June 22-26, 2020
2. **Yang-Shun Wu, Yi-Wen Liu, Yun-Ju Chuang, Pei-Ru Chen, Yi-Lin Hsu and Kuo-Yung Hung***, **Paper-Based and Time-Controlled Microfluidic Chip for Pesticide Detection**, The 20th International Conference on Solid-State Sensors, Actuators and Microsystems, June 23-27, 2019.
3. Kuo-Yung Hung, Yun-Ju Chuang, Chun-Yi Li, Pei-Ru Chen and Yun-Yun Kuo, “Design and Manufacture of Dissolving Inspired Microneedles,” 13th IEEE NEMS, Singapore, 23-26 April, 2018.
4. Po-Wei Huang, Kuo-Yung Hung*, Yun-Ju Chuang, “Development of Fully MEMS-Compatible Process on the Flexible Substrate, 12th IEEE NEMS, Los Angeles, USA, April 9-12, pp. 283-286 (17-71), 2017.
5. **Kuo-Yung Hung^{1*}, Hsuan-Yi Hsu¹, Yun-Ju Chuang², Pei-Ru Chen², Yun-Ta Yang³ and Hui-Ping Feng^{1*}**, **The Effects of Surface Roughness, Hydrophilic and BioTribology on Titanium Dental Implant surface with Specific Nano Structure**, 3rd International Conference on BioTribology (ICoBT 2016), Imperial College London, 105.9.11-105.9.14.
6. **Kuo-Yung Hung^{1*}, Hsing-Chien Lee¹, Yun-Ju Chuang², Pei-Ru Chen², Yun-Ta Yang³ and Hui-Ping Feng^{1*}**, Application of ion exchange and super-hydrophilic technology on ortho-biology surface modification, 3rd International Conference on BioTribology (ICoBT 2016), Imperial College London, 105.9.11-105.9.14.
7. **Chin-Pao Hung¹, Yun-Ju Chuang² and Jyun-Da Chen³ and Kuo-Yung Hung^{3*}**, **Applying Two-Electrodes Transducer As A Compound And Portable Medical Meter" has been accepted for The 1st International Conference on Engineering and Science (ICES 2016), which will take place in Yilan, Taiwan on July 08-10th, 2016. ISBN 978-986-04-9417-4.**
8. Kuo-Yung Hung, Yun-Ju Chuang, Yi-Cheng Yang, Chun-Yi Li and Pei-Ru Chen, “**Novel Design and Topography Optimization of Dissolving Polymer Microneedle Arrays, Manufacture**

- Using Inclined Exposure Technology,”** The 9th IEEE International Conference on Nano/Molecular Medicine and Engineering, HAWAII, USA, pp. 175-176, Nov. 15-18, 2015.
9. Y.J. Chuang, Y.T. Liao, W.R. Lin, F.R. Chen, P.R. Chen and **K.Y. Hung**, “Development and characterization of a novel two-dimensional position sensitive silicon strip detector for electron detection,” Transducers 2015, Anchorage, Alaska USA, pp. 1195-1198, June 21-25, 2015.
 10. Hong-Chen Lai, Yun-Ju Chuang, Pei-Ru Chen, Yong-Chin Yang, Wen-Hui Kuan, **Kuo-Yung Hung*** and Hui-Ping Feng, “In Vitro Behaviour of RF-sputtered HA film onto Titanium surface with Nano-pores”, The 2nd International Conference on Biotribology conference, Toronto, CANADA, 2014.5.11~2014.5.14.
 11. Kuo-Yung Hung*, Yun-Ju Chuang, Yi-Wei Tsai, Shih-Hao Huang, Jheng-Huai Huang, “INTEGRATION OF THE INNOVATIVE 3D MICRO PRISM DESIGN AND FABRICATION TECHNOLOGY FOR A PICO-PROJECTION SYSTEM,” 2014 International Conference on Optical MEMS and Nanophotonics, 17-21 August, Glasgow, Scotland, pp. 109-110, 2014.
 12. P. C. Wang, Yi-Chih Lin, Yung-Chin Yang, K. Y. Hung*, H. P. Feng, Influence of Heat Treatment on Responses in Simulated Body Fluids for the Plasma-Sprayed Hydroxyapatite Coatings of Titanium Implants, International Symposium on Green Manufacturing and Applications (ISGMA 2013), 25-29 June
 13. H. C. Lai, H. H. Tsai, K. Y. Hung*, H. P. Feng, “RF Sputtering Technique and Characterization for Hydroxyapatite Deposited Films from Various Targets”, TACT 2013 International Thin Films Conference, Taipei, Taiwan (2013) (Oral) 5-9 Oct.
 14. H. C. Lai, H. H. Tsai, K. Y. Hung*, H. P. Feng, “Surface Characteristics of Hydroxyapatite RF-Sputtered Thin Films from Self-Developed Plasma-sprayed Target”, TACT 2013 International Thin Films Conference, Taipei, Taiwan (2013) (Oral)
 15. H. C. Lai, K. Y. Hung*, H. P. Feng, “Fabrication of Hydroxyapatite Targets in RF-sputtering for Surface Modification of Titanium Dental Implants”, International Symposium on Green Manufacturing and Applications (ISGMA 2013), Hawaii, USA (2013) (Poster)
 16. S.H. Huang, Y.S. Lin, and K.Y. Hung, LIGHT-ADDRESSABLE MEASUREMENTS OF CELLULAR OXYGEN CONSUMPTION RATES IN MICROWELL ARRAYS BASED ON PHASE-BASED PHOSPHORESCENCE LIFETIME DETECTION, The 17th International Conference on Solid-State Sensors, Actuators and Microsystems June 16-20, 2013, Barcelona, Spain
 17. Kuo-Yung Hung*, Po-Jen Hsiao, Liang-Wei Chang, Chao-Chih Fan, Yi-Ko Chen, Miao-Chin Wei, Fan-Gang Tseng, Optofluidic Bi-Convex Aspherical lens Shaped by Thermal Energy and Electrostatic force, The 2nd International Conference on Optofluidics 2012: co-event of chinano 2012 conference and Expo, September 13 – 15, 2012, Dushu Lake Hotel, Suzhou Expo Center, Suzhou China, keynote speech: Oral Invited Speech
 18. **Kuo-Yung Hung***, Yi-Wei Tsai, Chun-Fu Lee, Yi-Hao Chu, “Integration the Back-Side Inclined Exposure Technology to Fabricate the 45° k-type Prism with Nanometer Roughness,” IEEE-NEMS 2012, Kyoto JAPAN, pp. 168-172, 2012.3.5-8. (**Finalist of best conference paper award**, 日本京都 會議論文共約 300 篇, 入選最後四篇大會最佳論文之一) (IEEE CATALOG NUMBER: CFP12NME-CDR; ISBN: 978-1-4673-1123-6)
 19. M. C. Wei, **K. Y. Hung***, Y. J. Chuang, S. H. Huang, “The Chromatic Dispersion Module with Large Chromatic Focal Shift,” IEEE-NEMS 2012, Kyoto JAPAN, pp. 495-498, 2012.3.5-8. (**IEEE CATALOG NUMBER: CFP12NME-CDR; ISBN: 978-1-4673-1123-6**)
 20. **Kuo-Yung Hung***, Sung-Cheng Lo, Chung-Sheng Shih, Yung-Chin Yang, Hui-Ping Feng*, Yi-Chih Lin, Cheng Yang, Hui-Yun Bor, “Titanium Surface Modified by Hydroxyapatite Coating for Dental Implants,” TACT 2011, International Thin Films Conference, Kenting, TAIWAN, 2011.11.20-23.
 21. **Kuo-Yung Hung***, Ying-Chuan Chen, Chun-Fu Lee, Shih-Hao Huang, Yun-Ju Chuang, A Novel Fabrication Method and Optical Test of the Micro Beam-splitter, pp. 143-144. 9th International Workshop on High Aspect Ratio Micro Structure Technology, June 12-18, 2011/ HsinChu, Taiwan
 22. S.H. Huang, T.C. Chien, **K.Y. Hung**, and Y.C. Chung, “Selective Deposition of Electrospun

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23. S.H. Huang, C.H. Tsai, **K.Y. Hung**, and Y.C. Chung, “Light-Directed, Spatially Addressable Oxygen Detection of Hydrogel Microarray Based on Phase-Based Lifetime Detection Using Digital Micromirror Device,” The 14th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Groningen, The Netherlands, 3 - 7 October 2010 (CBMS Catalog Number: 10CBMS-0001;ISBN: 978-0-9798064-3-8;ISSN: 1556-5904 (electronic);Library of Congress Number: 2010934843)
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