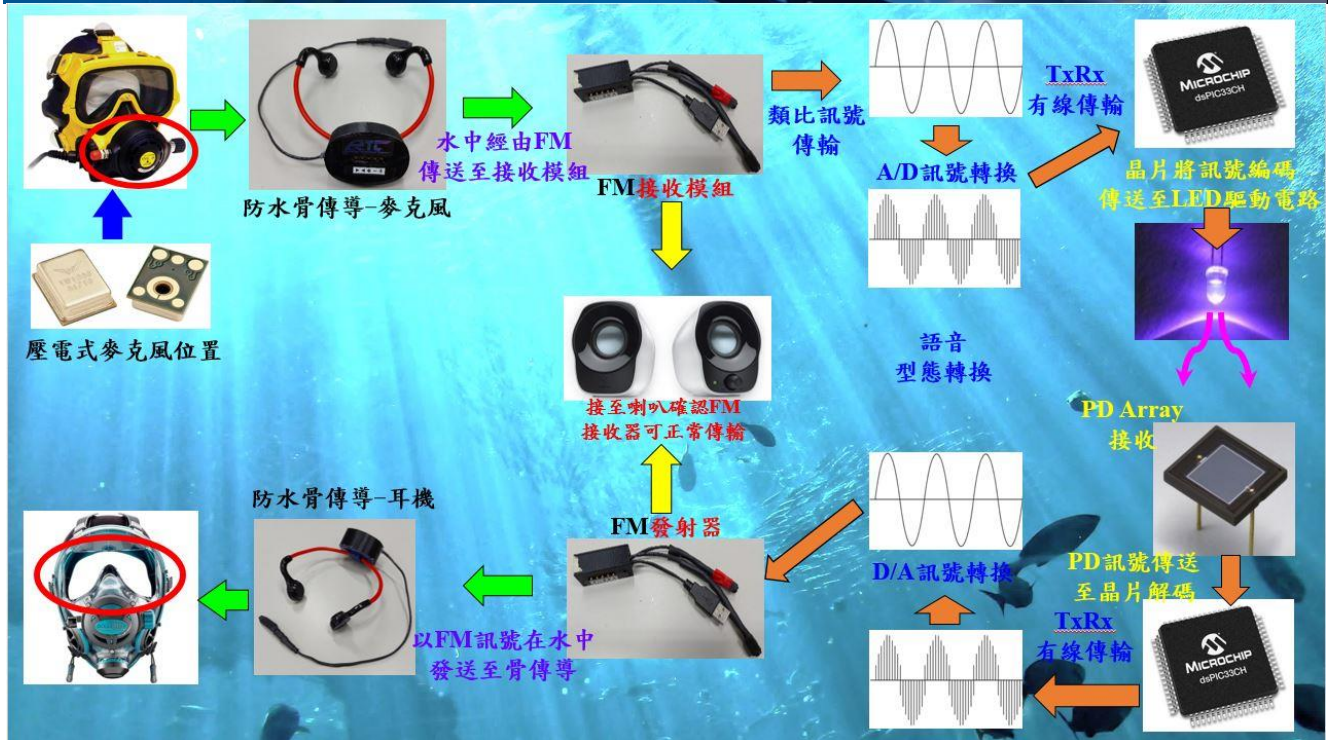
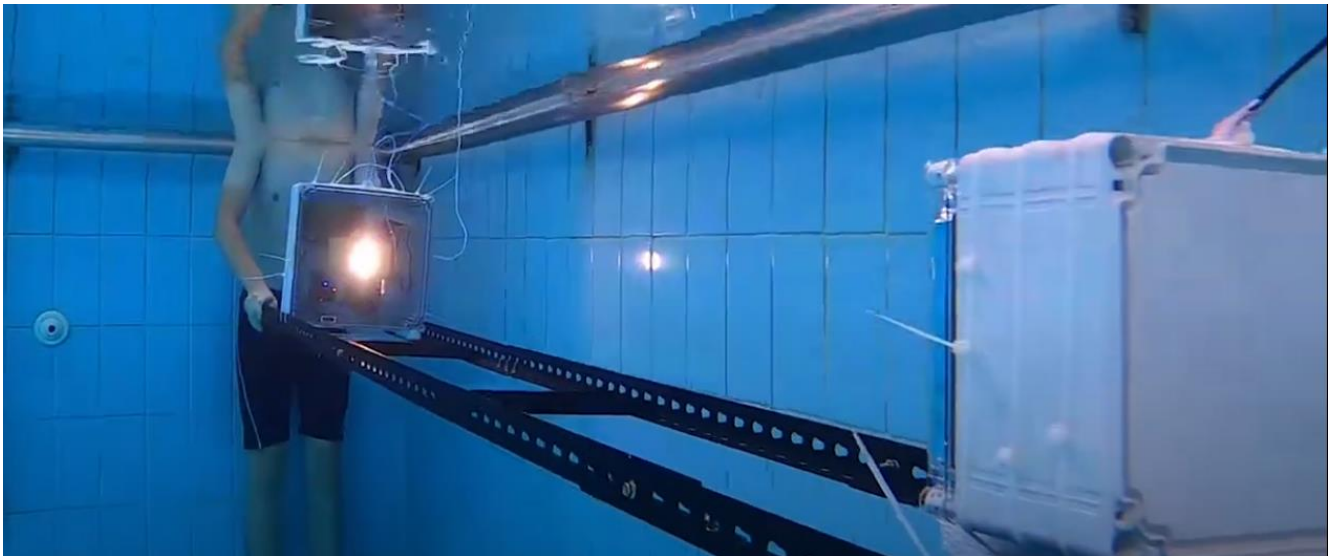


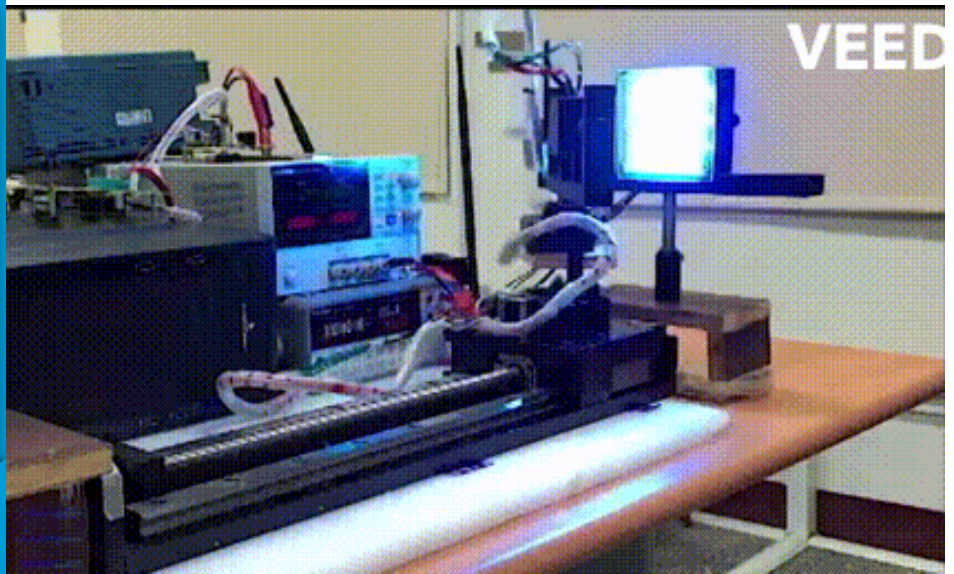
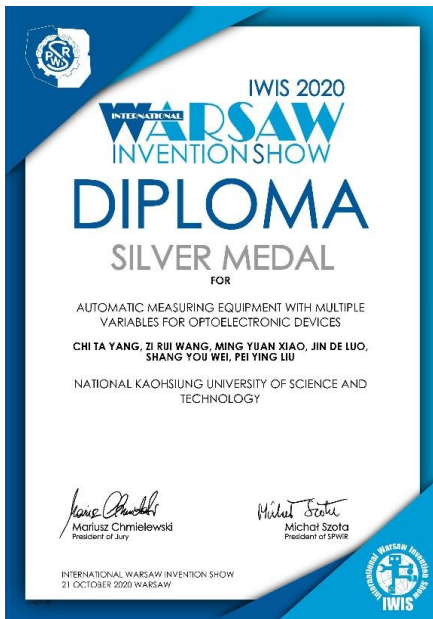
指導學生獲獎及參展

1. 2021/05/13-2021/06/03 「2021 年國立高雄科技大學電機與資訊學院學生實務專題製作競賽暨成果展」之系統組榮獲特優，參賽學生：方泊洧、吳堉睿、簡佑庭。作品：水下光訊號語音傳輸系統。
2. 2021/05/20-22 「2021 年全國技專校院學生實務專題製作競賽暨成果展」之電機類群 66 件報名中榮獲入圍決賽，參賽學生：方泊洧、吳堉睿、簡佑庭。作品：具低功耗、低成本、照明與雲端備份之無線 LED 光傳輸潛水通訊系統。



3. 2020/10/19-21 「2020 第十四屆波蘭國際發明展(International Warsaw Invention Show 2020)」榮獲銀牌獎，參賽學生：王梓睿、蕭名原、羅晉德、魏上又、劉佩穎。作品：自動化多變量光電元件量測平台(Automatic Measuring Equipment with Multiple Variables

for Optoelectronic Devices)



4. 2020/09/24-26 「2020 年第十六屆烏克蘭國際發明展(International Salon of Inventions and New Technologies)」**榮獲金牌獎**，參賽學生：許哲源、李廷逸。作品：具智慧辨識、高鑑別率與低耗電功能之人機介面控制艦艇通訊燈號系統(A ship communications light system under human-machine interface control with the capabilities of intelligent identification, high recognition rate, and low power consumption)

Communication System Test of Signal Lamps is 3 km away

XVI INTERNATIONAL SALON OF INVENTIONS AND NEW TECHNOLOGIES «NEW TIME»
 Stable development in times of changes
DIPLOMA awarded Gold medal
 Yang Chi Ta, HSU CHE YUAN, LI Ting Yi
 National Kaohsiung University of Science and Technology (Taiwan)
 for
 A SHIP COMMUNICATIONS LIGHT SYSTEM UNDER HUMAN-MACHINE INTERFACE CONTROL WITH THE CAPABILITIES OF INTELLIGENT IDENTIFICATION, HIGH RECOGNITION RATE, AND LOW POWER CONSUMPTION

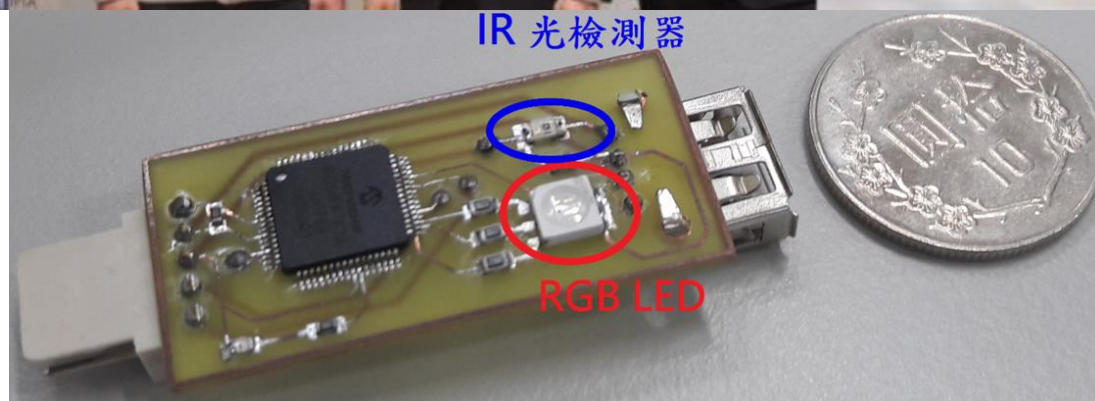
Ship1
 The message is converted into Morse code or other codes through the human-machine interface
 Send Morse code or other codes through LED signal lamp
 CCD capture signal and decode
 Show the ship1 message on the human-machine interface

Ship2
 CCD capture signal and decode
 Show the ship1 message on the human-machine interface
 The message is converted into Morse code or other codes through the human-machine interface
 Send Morse code or other codes through LED signal lamp

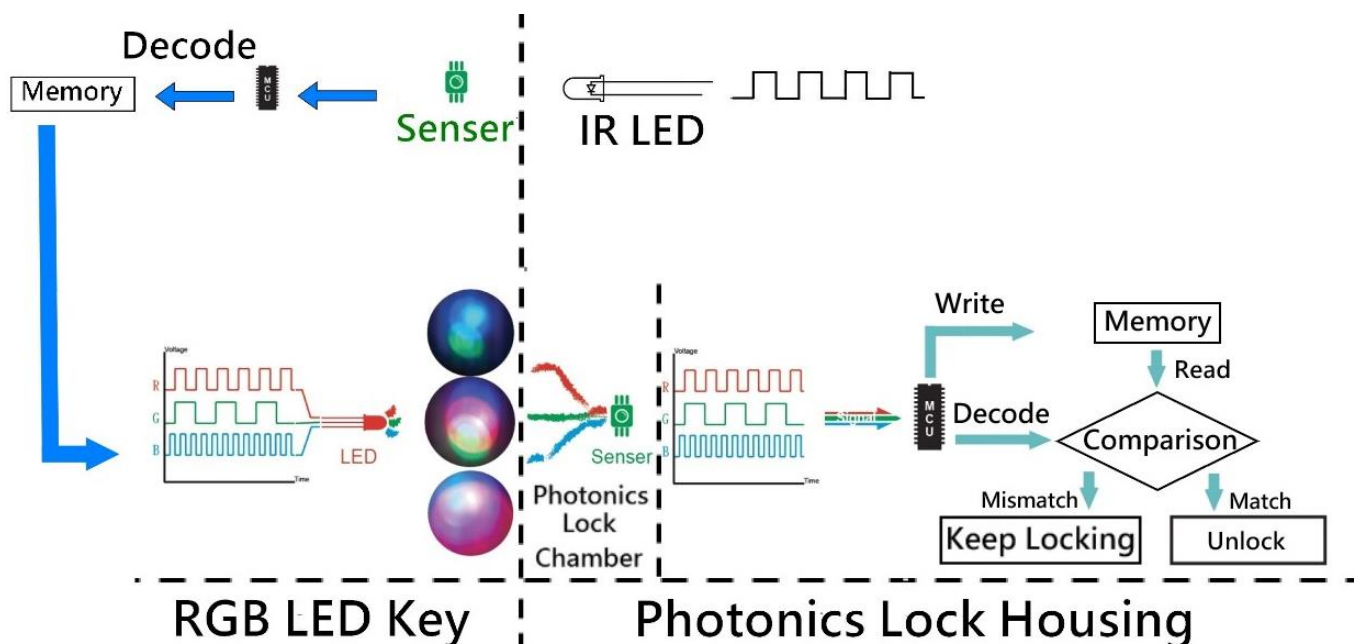
S.O.S

2.95 公里

5. 2020/09/24-26 「台灣創新技術博覽會(Taiwan Innotech. Expo.)」，「競賽區」榮獲銅牌獎，參展學生：許哲源、李廷逸。作品：智慧辨識艦艇通訊燈號系統與傳送方法(Smart Identification System of Naval Vessel Light Communication and Transmitting Method of the Same)。
6. 2019/09/26-28 「台灣創新技術博覽會(Taiwan Innotech. Expo.)」，科技部創新發明館展覽代表，參展學生：許哲源、李廷逸。作品：具智慧辨識、高鑑別率與低功耗功能之人機介面控制艦艇通訊燈號系統(A ship communications light system under human-machine interface control with the capabilities of intelligent identification, high recognition rate, and low power consumption)。
7. 2018/12/6-9 「第 14 屆韓國首爾國際發明展 (Seoul International Invention Fair 2018)」榮獲金牌 (Gold Prize) 獎。參賽學生：謝昀劭、王梓睿、王鼎元、劉至庭、張竣翔、張軒誌、林伯儒、許曾國璋。作品：智慧辨識混光鎖具 (Intelligent Identification of Mixed Photonic Lock structure)。



8. 2018/05/10-12 「2018 全國技專校院學生實務專題製作競賽—電機組競賽」，**榮獲第三名**。參賽學生：劉至庭、王鼎元、張軒誌、張竣翔、林伯儒、許曾國璋。作品：**智慧辨識混光鎖具**。
9. 2017/09/28-30 「台北國際發明暨技術交易展(Taipei Int`l Invention Show & Technomart/ Taipei Inst)」於「競賽區」**榮獲銀牌獎**，參賽學生：王梓睿、蕭名原、羅晉德、魏上又、劉佩穎。作品：**多變量自動光電量測平台**。
10. 2017/09/28-30 「台北國際發明暨技術交易展(Taipei Int`l Invention Show & Technomart/ Taipei Inst)」為「**教育部館**」參展代表。參賽學生：劉至庭、王鼎元、張軒誌、張竣翔、林伯儒、許曾國璋。作品：**智慧辨識混光鎖具**。



11.2016/06/7-9 「第 31 屆美國匹茲堡發明展 (Invention & New Product Exposition, INPEX) 」

榮獲銀牌獎。參賽學生：謝昀劭、林峰正。作品：Light triggered keys and locks 光觸發之鑰匙與鎖具。



12.2015/11/26-29 「2015 第十一屆韓國首爾國際發明展 (Seoul International Invention

Fair 2015) 」榮獲最高榮譽—發明大賞特首獎 (Grand Prize) ，11/29 自由時報頭版。參賽學生：林峰正、黃暉鈞、蔡青祐、洪國修、許嗣皓、白又瑋、蔡智順、黃界安、蘇倉慶、廖律維。作品：以光為傳輸媒介之電子鎖具 (Photoelectric Lock Structure)





13.2015/10/01-03「台北國際發明暨技術交易展」，「教育部館」參展代表。參展學生：
林峰正、黃暉鈞、蔡青祐、洪國修、許嗣皓、白又瑋、蔡智順、黃界安、蘇倉慶、
廖律維。作品：以光為傳輸媒介之電子鎖具(Photoelectric Lock Structure)





14.2015/10/01-03「台北國際發明暨技術交易展」，唯一「教育部館」記者會宣傳作品。

參展學生：林峰正、黃暉鈞、蔡青祐、洪國修、許嗣皓、白又瑋、蔡智順、黃界安、蘇倉慶、廖律維。作品：以光為傳輸媒介之電子鎖具 (Photoelectric Lock Structure)

2015台北發明展10/1開跑 1,500項專利產品向買主招手

吳碧 娥/北美智權報 編輯部

2015.09.23

以光為媒介之電子鎖匙系統

國立高雄海洋科技大學展出「以光為媒介的電子鎖匙」，相對於傳統鎖具，具有高隱密性、不需碰觸的鎖頭、可自行設定密碼與免除無線頻譜被側錄的功能。

利用光檢測器間的光顏色調變與光傳輸，實現不需碰觸鎖頭的功能。密碼設定開關在LED鑰匙與光電鎖中，同時手動設定電子密碼。光電鎖具有自行設定密碼與多組密碼儲存功能，對使用者來說，只要使用一把LED鑰匙，可開啟多組光電鎖；門戶管理者也可將多組不同密碼的光鑰匙設定儲存於同一組光電鎖中，便於管理又能避免被複製。



15.2014/09/18-21「台北國際發明暨技術交易展」，「教育部館」參展代表，參賽學生：謝昀劭、林峰正。作品：多變量光電元件量測裝置。

2017 台北國際發明暨技術交易展
2017 TAIPEI INT'L INVENTION SHOW & TECHNOMART

【專利權人或專利申請人】國立高雄海洋科技大學
【發明人、新型創作人或設計人】楊奇達、王梓睿、魏上又、羅晉德、蕭名原、劉佩穎
之
【專利】自動化光電元件量測平台

榮獲 2017 台北國際發明暨技術交易展發明競賽

銀牌獎

特頒此狀 以茲表揚

郭耀煌
發明競賽評審委員會主任委員

This
Silver Medal Award
is Presented to

【Patent】Automated Measuring Equipment for C
【Patentee / Patent Applicant】NATIONAL KAO
UNIVERSITY
【Inventor of invention, utility model or design pa
Wang, Zi-Rui - Wei, Shang-You - Luo, Jin-De - X
Pei-Ying

2017 Taipei International Invention Show
Invention Contest

September 30, 2017
TAIPEI CITY

Award Committee Chair

C0620

4-056

16.2014/05/22-24 「全國技專校院學生實務專題製作競賽」—生技醫農群組競賽—第一名。參賽學生：林建程、許嗣皓。作品：研發海上定置網監測系統。

2014年全國技專校院學生實務專題製作競賽暨成果展—生技醫農類群—第一名



17.2014/06，「102 學年度海洋工程學院實務專題競賽」榮獲甲等。參賽學生：吳韋德、呂冠廷。作品：同步電壓電流供應及檢測儀。

18.2012/06，「100 學年度海洋工程學院實務專題競賽」榮獲優等。參賽學生：吳韋德、呂冠廷。作品：同步電壓電流供應及檢測儀。

19.2012/06，「100 學年度海洋工程學院實務專題競賽」榮獲佳作。參賽學生：蘇彥瑚、饒皓源、陸韋辰。作品：光鑰匙。

專利發明：

類別	專利名稱	國別	專利號碼	發明人	專利權人	專利核准日期
發明	智慧辨識艦艇通訊燈號系統與傳送方法	中華民國	I733353	<u>楊奇達</u> 、許哲源；李廷逸	國立高雄科技大學	2021/7/11~ 2040/3/1
發明	Intelligent identification of mixed photonic lock structure and method thereof	美國	US 10,354,466	<u>楊奇達</u> 、謝昀劭、王梓睿、王鼎元、劉至庭、張竣翔、張軒誌、林伯儒、許曾國璋	國立高雄科技大學	2019/7/16
發明	智慧辨識混光鎖具及使用方法	中華民國	I664342	<u>楊奇達</u> 、謝昀劭、王梓睿、王鼎元、劉至庭、張竣翔、張軒誌、林伯儒、許曾國璋	國立高雄科技大學	2019/7/1~ 2037/12/13
新型	無塵室風車過濾控制系統	中華民國	M565779	<u>楊奇達</u> 、鄭營耀、林伯儒	國立高雄科技大學	2018/8/21~ 2028/5/15
新型	自動化光電元件量測平台	中華民國	M549876	<u>楊奇達</u> 、謝昀劭、王梓睿、王鼎元、劉至庭、張竣翔、張軒誌、林伯儒、許曾國璋	國立高雄科技大學	2017/10/1~ 2027/6/21
發明	光鎖具結構及使用的方法	中華民國	I487829	<u>楊奇達</u> 、蘇彥瑚	國立高雄科技大學	2015/6/11~ 2032/7/23
新型	藍光感測器以及使用其之藍光檢測裝置	中華民國	M491827	謝振榆、雷伯薰、葉旻彥、 <u>楊奇達</u> 、詹展昌	國立虎尾科技大學	2014/12/11 ~ 2024/08/14
新型	多變量光電元件量測裝置	中華民國	M481411	<u>楊奇達</u> 、周佳祥、林峰正、 李韋儒	國立高雄科技大學	2014/7/1~ 2023/2/12
發明	高速雷射二極體之主動區層結構	中華民國	I295121	雷伯薰、 <u>楊奇達</u> 、黃潤杰	雷伯薰	2008/3/21~ 2026/04/27
發明	雷射二極體之主動層結構	中華民國	I292646	雷伯薰、 <u>楊奇達</u> 、黃潤杰	雷伯薰	2008/01/11 ~ 2026/04/23
新型	高功率發光二極體晶片	中華民國	M281297	黃潤杰、鄧及人、雷伯薰、 <u>楊奇達</u>	鼎元光電	2005/11/21 ~ 2015/06/27
發明	一種在矽化鎢與氮化矽上成長液相沈積二氧化矽之組成	中華民國	I 159521	李明達、 <u>楊奇達</u>	行政院國家科學委員會	2002/06/21 ~ 2019/04/19

技術轉移：

技術移轉名稱	授權單位	被授權單位	簽約日期
科技部產學計畫先期技轉「開發具有低成本、高精度、多軸自動校正之步進馬達控制系統(MOST 109-2622-E-992 -036)	國立高雄科技大學	匠星光電股份有限公司	2020/11/16~2022/11/15
具智慧辨識、高鑑別率與低耗電功能之艦艇通訊燈號系統	國立高雄科技大學	中信造船股份有限公司	2020/09/07~2022/09/06
實現智慧追跡、聚焦功能之艦艇通訊燈號系統技術	國立高雄科技大學	中信造船股份有限公司	2020/06/30~2022/06/29
智慧辨識混光鎖具及使用方法(中華民國發明專利第I664342號)及Intelligent identification of mixed photonic lock structure and method thereof (美國專利號US 10,354,466)	國立高雄科技大學	茂祺有限公司	2020/06/01~2022/5/31
光鎖具結構及使用方法(中華民國發明專利第I487829號)	國立高雄科技大學	手普系統股份有限公司	2020/02/01~2022/01/31
多變量光電元件量測裝置(中華民國新型專利M481411號)	國立高雄海洋科技大學	匠星光電股份有限公司	2014/05/09~2017/05/08

產官學研計畫案：

1. 教育部計畫，教育部補助大專校院 STEM 領域及女性研發人才培育計畫，「半導體產業各領域人才需求培育計畫-第二年」，**主持人**，執行期間 2023/08/01—2024/07/31.
2. 經濟部工業局-財團法人資訊工業策進會，「半導體設備工程師實務技能培訓班-聯電班」，**主持人**，執行期間 2023/06/13—2023/09/30.
3. 勞動部計畫，產業新尖兵試辦計畫，「半導體製程人才培訓班」，**主持人**，執行期間 2023/05/27—2023/12/31.
4. 勞動部計畫，產業新尖兵試辦計畫，「半導體製程人才培訓班第一梯次」，**主持人**，執行期間 2022/12/01—2023/05/31.
5. 教育部計畫，教育部補助大專校院 STEM 領域及女性研發人才培育計畫，「半導體產業各領域人才需求培育計畫—第一年」，**主持人**，執行期間 2022/08/01—2023/07/31.
6. 經濟部工業局智慧電子學院計畫，「半導體製程人才實務技能養成班」，**主持人**，執行期間 2022/06/29—2022/12/28.

7. 財團法人工業技術研究院計畫，「半導體製程實務技能培訓班」，**主持人**，執行期間 2022/06/01—2022/11/30.
8. 勞動部計畫，「應用於離岸風電產業巡檢之無人機飛手培訓班第一梯次」，**主持人**，執行期間 2022/05/30—2022/10/16.
9. 經濟部國貿局計畫，「推動國際會議及展覽在臺辦理計畫，OPTIC 2021 光電科技研討會暨科技部光電學門研究成果發表會暨關鍵技術人才媒合會」，**主持人**，執行期間 2021/12/02—2022/01/04.
10. 科技部計畫，「OPTIC 2021 光電研討會暨科技部光電學門成果發表會」，**主持人**，執行期間 2021/12/02—2021/12/04.
11. 科技部工程中心計畫，「2021 光電科技研討會暨科技部光電學門研究成果發表會暨關鍵技術人才媒合會」，**主持人**，執行期間 2021/12/02—2021/12/04.
12. 高雄市政府經發局計畫，「台灣光電科技國際研討會暨科技部光電學門研究成果發表會暨關鍵技術人才媒合會」，**主持人**，執行期間 2021/11/03—2022/01/03.
13. 財團法人工業技術研究院計畫，「關鍵技術人才媒合會」，**主持人**，執行期間 2021/10/01—2021/12/31.
14. 中信造船股份有限公司計畫，「船舶用環景系統之建置」，**主持人**，執行期間 2021/01—2021/12.
15. 財團法人工業技術研究院計畫，「離岸風電產業工程師就業養成課程設計規劃執行與實務體驗(第二期)」，**主持人**，執行期間 2020/11---2021/05.
16. 科技部產學合作計畫，「開發具有低成本、高精度、多軸自動校正之步進馬達控制系統(MOST 109-2622-E-992-036)」，**主持人**，執行期間 2020/11—2021/10.
17. 財團法人工業技術研究院計畫，「離岸風電產業工程師就業養成課程設計規劃執行與

實務體驗」，主持人，執行期間 2020/05—2020/09.

18. 彰芳風力發電股份有限公司及西島風力發電股份有限公司計畫，「台電電網諧波測量與阻抗模型分析」，共同主持人，執行期間 2020/05—2021/03.
19. 財團法人工業技術研究院計畫，「離岸變電站設備查驗維護機制資料收集與彙整計畫」，共同主持人，執行期間 2020/03—2020/11.
20. 華城電機股份有限公司計畫，「海能離岸風場併網背景諧波模型建立分析」，共同主持人，執行期間 2019/11—2020/6.
21. 科技部鼓勵技專校院從事實務型研究專案計畫，「具智慧辨識、高鑑別率與低耗電功能之人機介面控制艦艇通訊燈號系統(107-2637-E-992-016)」，主持人，執行期間 2018/08—2019/07.
22. 交通部港灣技術研究所計畫「MOTC-IOOT-107-H2DB004 離岸風電區之船舶監控及急難救助」，主持人，執行期間 2018/02—2018/12.
23. 台灣塑膠股份有限公司計畫「有害氣體無線監控系統之研製」，協同主持人，執行期間 2018/01—2018/12.
24. 交通部港灣技術研究所計畫「行動中繼傳輸技術應用於 AIS 系統之研發」，主持人，執行期間 2017/02/07—2018/01/15.
25. 科技部專題研究計畫（雙邊協議專案型國際合作研究計畫）「基於先進材料之水中聽音器的理論、模式與實驗分析及應用(105-2923-E-992-302 -MY3)」，共同主持人，執行期間 2016/01—2018/12.
26. 教育部計畫「101 年數位學伴線上課業輔導服務計劃」南區伙伴大學共同主持人，執行期間 2012/8/29—2014/1/31
27. 財團法人金屬工業研究發展中心計畫，推動「學界協助中小企業科技關懷計畫---以

物理光學整合光學零組件以提升廠商競爭力」，主持人，執行期間 2012/05—2012/10

28.聯成航業股份有限公司委託產學案，「具有循序閃滅功能的水下高功率 LED 集魚燈具之設計」，主持人，執行期間 2010/08---2011/01

29.國科會補助國內專家學者出席國際學術會議(補助編號:99-2914-I-022-003-A1)，「The 15th OptoElectronics and Communications Conference」，口頭報告，「9E4-3 The Responsivity Improvement of Waveguide Photodetector with InP Crystallographic Slope and Tapered SiOx Facet Integration」主持人，執行期間 2010/07/05---2010/07/9

30.教育部推動技專校院與產業園區產學合作計畫，「應用於沿岸漁業之多功能低耗電全彩式 LED 電子燈具(98E-07-055)」，主持人，執行期間 2009/01---2009/12.

31.國科會專題研究計畫，「以化學溶液非等向性蝕刻方式改善光檢測器之耦光特性(97-2221-E-022-003-)」，主持人，執行期間 2008/08---2009/07.

32.國科會專題研究計畫，「低電壓下具有高響應頻寬乘積的新式波導型光檢測器(NSC96-2221-E-022 -007)」，主持人，執行期間 2007/08---2008/07.

33.國科會小產學計畫，「應用於光纖暨光電工程之高效率自動化光訊號耦合系統(NSC96-2622-E-022 -002-CC3)」，主持人，執行期間 2007/05---2008/04.

34.國科會專題研究計畫，「單石化整合監控 1.3 μ m GaInAsP 壓應力之量子井結構雷射功率之光檢測器(NSC95-2221-E-022-009)」，主持人，執行期間 2006/08---2007/07.

校內計畫：

1. 國立高雄科技大學 109 年度深耕海洋特色跨校區研究計畫-具低功耗、低成本、照明與雲端備份功能之無線 LED 光傳輸潛水通訊系統 109A05，執行期間 2020/02~2020/12

2. 107 年國立高雄科技大學 107 年度深耕海洋特色跨校區研究計畫--可移動式魚塭增氧暨殺菌保溫裝置商品製作計畫 107M09，執行期間 2018/09~2019/11

3. 104 年度發展特色產學平台補助計畫-競爭型補助案-跨領域實務學程暨提升產業實習深耕產學合作(二)，執行期間 104/01---104/12
4. 103 年度發展特色產學平台補助計畫-競爭型補助案-跨領域實務學程暨提升產業實習深耕產學合作(一)，執行期間 103/01---103/12
5. 103 年度發展特色產學平台補助計畫-基本型補助案-以電子槍之新穎性材料建構產業創新研發之環境，執行期間 103/01---103/12
6. 100 學年度鼓勵教師從事研究經費補助，「寬波段高效率大面積光檢測器之研發」，主持人，執行期間 100/11---101/07

國際期刊：

Referred International Journal Papers

1. P.-H. Lei, **C.-D. Yang**, Y.-S. Yang, J.-H. Lin, "Preparation of a Periodic Polystyrene Nanosphere Array Using the Dip-Drop Method with Post-deposition Etching and Its Application of Improving Light Extraction Efficiency of InGaN/GaN LEDs", *Nanoscale Res. Lett.*, vol. 13(1), pp.180, Dec. 2018, Published online: Jun. 2018 (I.F. 3.125) (Grant No. MOST 103-2221-E-150-033-MY2) (SCI)
2. Y.-H. Yeh, **C. D. Yang**, C.-Y. Lee*, Y.-C. Tseng, and J.-D. Tsai, "Performance enhancement of InGaN LEDs with Al-graded GaN/AlGaIn multiple electron-blocking layers", *Jpn. J. Appl. Phys.*, vol. 56, 062102, Jun. 2017. (I.F. 1.452) (Grant No. MOST105-2923-E-022-001) (SCI)
3. K.-F. Lu, T.-K. Lin, J.-K. Liou, **C. D. Yang**, C.-Y. Lee*, J.-D. Tsai, "Effect of p-GaN layer grown with H₂ carrier gas on wall-plug efficiency of high-power LEDs", *Solid-State Electron.*, vol. 132, pp. 86-90, Jun. 2017. (I.F. 1.666) (Grant No. MOST105-2923-E-022-001) (SCI)

4. M.-Y. Yeh, P.-H. Lei, S.-H. Lin, C.-D. Yang, "Copper-Zinc-Tin-Sulfur Thin Film Using Spin-Coating Technology", *Mater.*, vol. 9, pp. 526, Jun. 2016. (I.F. 2.476) (Grant No. MOST 101-2622-E-150-013-CC3)
5. J. D. Chen*, I. T. Wu, C. T. Lee, R. S. Chen, **C. D. Yang**, "Robust Output Observer-Based Control of Neutral Uncertain Systems with Discrete and Distributed Time Delays", Chapter 4, *Control and Automation Technology*, Mechatronics, Robotics for Manufacture and Industry, Applied Mechanics and Materials, vols. 764-765, pp. 629-633, May. 2015. (EI) (ISSN : 1662-7482)
6. M.-Y. Yeh*, Y.-F. Huang, C.-L. Huang, **C. D. Yang**, D.-S. Wu, P.-H. Lei, "Metal chloride precursor synthesization of $\text{Cu}_2\text{ZnSnS}_4$ solar cell materials", *J. Korean Phys. Soc.*, vol. 65, Iss. 2, pp 196-199, Jul. 2014. (I.F. 0.493) (NSC101-2221-E-507-002) (NSC 99-2221-E-022 -005; NSC 101-2221-E-022- 008; National Kaohsiung Marine University RND-98-012) (SCI)
7. C.-H. Lien, J.-D. Chen*, C.-T. Lee, R.-S. Chen, **C. D. Yang**, "Robust exponential H-infinity control of uncertain discrete-time systems with interval-like time-varying delay", *ICIC Express Letters*, vol. 5, iss. 2, pp. 333-339, Apr. 2014. (EI) (NSC 100-2221-E-507-001 and NSC 101-2221-E-507-002)
8. J.-D. Chen*, C.-H. Lien, K.-W. Yu, C.-T. Lee, R.-S. Chen, **C. D. Yang**, "Robust exponential stability for uncertain discrete time switched systems with interval time-varying delay via a switching signal", Chapter 10: *Computer and Information Technologies*, Applied Mechanics and Materials, vols. 479-480, pp 983-988, Feb. 2014. (EI) (NSC 100-2221-E-507-001.)
9. C. H. Lien, J.-D. Chen*, C.-T. Lee, R.-S. Chen and **C. D. Yang**, "Robust H1 filter design for discrete-time switched systems with interval time-varying delay and linear fractional perturbations: LMI optimization approach", *Appl. Math. Comput.*, vol. 219, Iss. 24, pp. 11395-11407, Aug. 2013. (I.F. 1.551) (NSC101-2221-E-507-002)

- 10.**C. D. Yang* and P. H. Lei, "Lateral Power-Monitoring Photodiode Monolithically Integrated into 1.3 μm GaInAsP Laser", *Solid-State Electron.*, vol. 67, Iss. 1, pp. 63-69, Jan. 2012. (I.F. 1.504) (NSC95-2221-E-022-009) (**SCI. PHYSICS, APPLIED 69/79**) Times Cited: 2 2/0
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- 12.**C. D. Yang*, P. H. Lei, and M. C. Wu, "Light-Input Tapered SiO_x Facet with InP Crystallographic Slope for InGaAsP-InGaAs-InP Waveguide Photodetectors", *J. Electrochem. Soc.*, vol. 157, Iss. 10, pp. H924-H929, Oct. 2010. (I.F. 3.266) (NSC 97-2221-E-022 -003) (**SCI. MATERIALS SCIENCE, COATINGS & FILMS 1/17**) Times Cited: 0
- 13.**P. H. Lei* and C. D. Yang, "Growth of SiO_2 on InP substrate by Liquid Phase Deposition", *Appl. Surf. Sci.*, vol. 256, Iss. 12, pp. 3757-3760, Apr. 2010. (I.F. 2.711) (NSC96-2622-E-150-CC3) (**SCI. MATERIALS SCIENCE, COATINGS & FILMS 6/17**) Times Cited: 0
- 14.**J. D. Chen*, C. D. Yang, K. J. Lin and C. H. Lien, "Robust H_∞ control for a class of uncertain neutral systems with both state and control input time-varying delays via a unified LMI optimization approach", *Control and Cybern.*, vol. 37, no. 3, pp 517-530, 2008. (I. F. 0.378) (NSC 96-2221-E-507-003) (**SCI. AUTOMATION & CONTROL SYSTEMS 47/59**) Times Cited: 0
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16. P. H. Lei* and C. D. Yang, “650 nm Resonant-cavity light-emitting diodes with dielectric distributed Bragg reflectors”, *Solid-State Electron.*, vol. 52, pp. 227-232, Feb. 2008. (I.F. 1.504) (NSC 93-2215-E-434-001) (**SCI. PHYSICS, APPLIED 69/79**) Times Cited: 2 2/0
17. P. H. Lei*, C. D. Yang, M. Y. Wu, M. C. Wu, K. Y. Cheng, C. C. Lin and W. J. Ho, “Effects of N-type modulation-doping barriers and a linear graded-composition GaInAsP-intermediate layer on the 1.3 μm AlGaInAs/AlGaInAs Strain-compensated-multiple-quantum-well Laser diode”, *J. Vac. Sci. Technol. B*, vol. 24, no. 2, pp. 623-628, Mar./Apr. 2006. (I.F. 1.464) (NSC 92-2215-E-007-025) (**SCI. PHYSICS, APPLIED 48/108**) Times Cited: 0
18. P. H. Lei*, C. D. Yang, M. Y. Wu, C. W. Hu, M. C. Wu, Y. H. Huang and W. J. Ho, “Optimization of active region for 1.3 μm GaInAsP compressive-strain multiple-Quantum-well ridge waveguide laser diode”, *J. Electron. Mater.*, vol. 35, no. 2, pp. 243-249, 2006. (I.F. 1.798) (NSC 91-2215-E-007-031) (**SCI. PHYSICS, APPLIED 50/108**) Times Cited: 0
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21. M. Y. Wu, P. H. Lei, C. L. Tsai, C. D. Yang, Y. H. Huang, W. J. Ho and M. C. Wu*, “Growth and characterization of compressive-strain GaInAsP/InP multiple-quantum-well laser diodes with the tensile-strain GaInP quantum barrier”, *J. Vac. Sci. Technol. B*, vol. 22, pp. 961-965, 2004. (I.F. 1.464)(**SCI. PHYSICS, APPLIED 77/246**) Times Cited: 3

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25. M. Y. Wu, **C. D. Yang**, P. H. Lei, M. C. Wu*, and W. J. Ho, “Very low threshold current operation of 1.3- μm AlGaInAs/AlGaInAs strain-compensated multiple-quantum-well laser diodes”, *Jpn. J. Appl. Phys.*, vol. **42**, pp. L643-L645, Part 2, no. 6B, Jun. 2003. (I.F. 1.127)(**SCI. PHYSICS, APPLIED 57/108**) Times Cited: 1 0/1
26. M. K. Lee*, C. N. Yang and **C. D. Yang**, “The improvement of Liquid Phase Deposition of Silicon Dioxide with Hydrochloric Acid Incorporation”, *Jpn. J. Appl. Phy.* vol.37 (1998) pp. L682-L683(**JJAP**) Part 2, no. 6A. Jun. 1998. (I.F. 1.127) (**SCI. PHYSICS, APPLIED 57/108**) Times Cited: 5 0/5
27. M. K. Lee*, C. H. Lin, B. H. Lei and **C. D. Yang**, “Improvement of Effective Charges in Oxynitride Prepared by Liquid Phase Deposition on Silicon”, *Jpn. J. Appl. Phys.*, vol.37 (1998) pp. L53-54(**JJAP**) Part 2, no. 1A/B. Jan. 1998. (I.F. 1.127) (**SCI. PHYSICS, APPLIED 57/108**) Times Cited: 5 1/4

Book Chapter 國際專書章節論文

1. M.-Y. Yeh, Y.-C. Lee, K.-F. Hsu, **C.-D. Yang**, C.-L. Huang, P.-H. Lei and S.-H. Chang, 〈 Chapter 2 Hydrothermal Preparation of NaTaO₃ Photocatalyst Materials 〉 , *Advanced Materials – studies and Applications (ISBN: 978-1-63463 -749-7)*, Nova Science Publishers, New York, pp. 29-37, 2015.
2. M.-Y. Yeh, Y.-J. Liao, D.-S. Wu, C.-L. Huang, and **C.-D. Yang**, 〈 Chapter 5 Electro-Deposition Cu₂ZnSnS₄ Solar Cell Materials on Mo/SLG Substrates 〉 , *Advanced Materials Physics, Mechanics and Applications (ISBN: 978-3-319-03748-6)*, Springer International Publishing, Switzerland, vol. 152, pp. 45– 53, 2014.
3. A. N. Soloviev, P. A. Oganessian, T. G. Lupeiko, E. V. Kirillova, S.-H. Chang and **C.-D. Yang** (2014), 〈 Chapter 46 Modeling of Non uniform Polarization for Multi-layered Piezoelectric Transducer for Energy Harvesting Devices 〉 , *Advanced Materials- Physics, Mechanics and Applications (ISBN: 978-3-319-03748-6)*, Springer International Publishing, Switzerland, vol. 152, pp. 652-658, 2014.
4. C.-H. Lien*, J.-D. Chen, K.-W. Yu, C.-T. Lee, R.-S. Chen, **C.-D. Yang**, “Robust Exponential Stability of Uncertain Discrete-Time Systems with Interval Time-Varying Delay”, *Lecture Notes in Electrical Engineering (ISBN: 1876-1119(electronic))*, Springer Heidelberg New York Dordrecht London, vol. 293, pp. 461-468, Mar. 2014. (EI) (MOST 101-2221-E-022-009)
5. S.-H. Chang, C.-C. Yang, J.-K. Wu, Ivan A. Parinov, C.-F. Lin, Ian Y.-y. Bu, **C.-D. Yang**, M. S. Shevtsova, and Jenny C.-Y. Lee, ”Finite-element Based Comparative Investigation of Sandwich Design and Membrane-type PZT Hydrophones with Perforated Damping Back-Plate for Underwater Applications”, 2011 Annual Research Report of National Kaohsiung Marine University, p.26 , November, 2011.

國際研討會期刊：
International Conference Papers

1. W.-C. Lin, Y.-J. Hsu, G.-L. Su, **C.-D. Yang**, Y.-H. Chen, “Investigation of ZnO/ultrathin Al/ZnO multilayer transparent electrode using RF magnetron sputtering”, 4th International Conference on Nanomaterials and Advanced Composites (**NAC 2023**), Busan, South Korea, (Nov 17-20, 2023)
2. C.-H. Hsu, Z.-X. Chen, T.-Y. Chen, H.-S. Liu, **C.-D. Yang**, Y.-H. Chen, “Suppressing Leakage-Current in Planar Si-based MIS Schottky Diode with Magnesium Oxide Layer”, International Conference on Smart Devices and Sustainable Energy (**SDSE 2023**), Poster A-08, New Taipei City, Taiwan, (Nov. 7-9, 2023) **榮獲海報論文競賽第一名**
3. Z.-X. Chen, C.-H. Hsu, T.-Y. Chen, H.-S. Liu, **C.-D. Yang**, Y.-H. Chen, “Using CuO insulating layer to enhance the performance of Si-based MIS photodiodes”, International Conference on Smart Devices and Sustainable Energy (**SDSE 2023**), Poster A-17, New Taipei City, Taiwan, (Nov. 7-9, 2023)
4. Y.-L. Xie, Y.-H. Xia, Z.-X. Chen, **C.-D. Yang**, Y.-H. Chen, “RF Magnetron Sputtered CuO-Cu₂O Complex Thin Films and Its Applications to Resistive Random-Access Memory”, 2023 International Workshop on Dielectric Thin Films for Future Electron Devices: Science and Technology (**IWDTF 2023**), Poster NO:P7, Kanazawa Chamber of Commerce and Industry, Ishikawa, Japan, (Oct. 23-25, 2023)
5. W.-C. Lin, Y.-J. Hsu, G.-L. Su, **C.-D. Yang**, Y.-H. Chen, “ZnO thin films for optoelectronic device applications by RF sputtering technique”, International Electron Devices and Materials Symposium (**IEDMS 2023**), **Poster**, Kaohsiung, Taiwan, (Oct. 19-20, 2021)
6. Y.-L. Xie, Y.-H. Xia, Z.-X. Chen, **C.-D. Yang**, Y.-H. Chen, “Relationship between deposition conditions and physical properties of RF-Sputtered copper oxide films”, 2023 International Forum in Plasma and Thin Film Technologies for Sustainable Development

Goals (**PTSDG 2023**), Poster NO:P04_12, New Taipei City, Taiwan, (Jun. 15-17, 2023)

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7. H.-J. Wu, Y.-H. Chen, **C.-D. Yang**, "Improved optoelectronic characteristics of Al Doped n-ZnO film for a UV photodetector by post-deposition rapid thermal annealing", the 12th Annual World Congress of Nano Science & Technology (Nano S&T-2023), Poster NO.: NANO 03, Sapporo, Japan (Feb. 20-10, 2023).
8. Ting-Yi, Li, Che-Yuan, Hsu*, **Chi-Da, Yang**, "A ship light communications system with intelligent trace and identification, high recognition rate, and low power consumption", Optics & Photonics Taiwan International Conference (OPTIC 2021), Kaohsiung, Taiwan, pp. 50 (Dec. 2-4, 2021)
9. C.-F. Yen, C.-Y. Lee, M.-Y. Yeh, K.-K. Chong, **C.-D. Yang**, R.-J. Hong, S.-H. Li, "The Study of Hafnium Dioxide on Si by Non-vacuum Deposition Process", 2018 International Symposium on Physics and Mechanics of New Materials and Their Applications (PHENMA 2018), Busan, Korea, pp. 98 (Aug. 9-11, 2018)
10. G. Ya, Karapetyan, V. G. Dneprovski, I. A. Parinov, G. Parchi, M.-Y. Yeh, **C.-D. Yang**, "Study of the MDSM Structure without Barrier Layers in the Mode of Charging – Discharging of the Gate Capacitor", 2018 International Symposium on Physics and Mechanics of New Materials and Their Applications (PHENMA 2018), Busan, Korea, pp. 184 (Aug. 9-11, 2018).
11. M.-Y. Yeh, C.-C. Yeh, T.-H. Yu, C.-F. Yen, **C.-D. Yang**, Jenny C.-Y. Lee, S.-H. Chang, "An Environment Monitored System Using an Unmanned Self-propelled Vehicles", 2018 International Symposium on Physics and Mechanics of New Materials and Their Applications (PHENMA 2018), Busan, Korea, pp. 244 (Aug. 9-11, 2018)
12. **C. D. Yang**, P. H. Lei, M. C. Wu*, "Study of Polystyrene-Sphere Colloidal Crystal and Inverted Structures", 2014 International Symposium on Physics and Mechanics of New Materials and Underwater Applications (PHENMA 2014), Khon Kaen, Thailand, pp.30

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14. M. Y. Yeh*, Y. C. Lee, K. F. Hsu, **C. D. Yang**, C. L. Huang, P. H. Lei, S. H. Chang, “Hydrothermal Preparation of NaTaO₃ Photocatalyst Materials”, 2014 International Symposium on Physics and Mechanics of New Materials and Underwater Applications (PHENMA 2014), Khon Kaen, Thailand, pp.58-59 (March 27-29, 2014).
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