何慶炎

學習經歷

學歷	學位	畢業院校	專業
本科	學士	中興大學	機械工程系
碩士研究生	碩士	中山大學	機械暨機電工程系
博士研究生	博士	中山大學	機械暨機電工程系
博士後			

工作經歷

1. 逢甲大學物理中心助教
2. 吳鳳科技大學機械系講師
3. 華夏科技大學機械系副教授
4. 華夏科技大學機械系教授
5. 華夏科技大學機械系系主任
6. 華夏科技大學機械系圖資中心主任
7. 華夏科技大學機械系圖書館館長

評優獲獎情況

1. 獲得科技部補助大專校院特殊優秀人才獎勵彈性薪資獎勵（2010.8-2017.7)。
2. 獲得教育部補助大專校院特殊優秀人才彈性薪資獎勵(2012.1-2012.12;2018.8-2018.12;2020.1-2020.12)。
3. **獲得國際研討會傑出論文獎**-Outstanding Paper Award- ICAE2011 (2011 International Conference on Advanced Electromaterials, Nov 7, 2011 - Nov 10, 2011 Jeju, Korea**).**
4. **自製教學媒體獲教育部獎勵**-1999 度技專院校自製教學媒體競賽入選（多媒體氣壓控制教學光碟)。
5. **專題指導獲獎**－1997 年全國省油車造型設計獎、2020 年雲端圖形控制電動機轉速、2020 年聲控電動機、2021 機器手臂遠程控制。
6. **優良教師表揚**-2009 年度臺北縣中和市優良教師、華夏技術學院 2006 學年度第 2 學期績優導師、華夏技術學院 2005 學年度第 1 學期績優導師、吳鳳工專 1996 學年度第 2 學期績優導師、吳鳳工專 1996 學年度第 1 學期績優導師。
7. **具備 4 種職類技術證照** －具備氣壓乙級技術證照(氣壓控制工程課程)、液壓乙級技術證照(液壓控制工程課程)、機電整合乙級技術證照(機電一體課程)及電腦數值銑床乙級技術證照(電腦數值控制課程)。
8. **專利**-中華民國專利證書發明第 I435749 號: 球類收取裝置、中華民國專利證書新型第 M499698 號:可測高度的對焦雷射筆、中華民國專利證書新型第 M497771 號:雷射測中心點裝置、中華民國專利證書發明第 1374041 號: 球網拉緊裝置。
9. **國際研討會邀請演講**-(a) **A keynote speaker** for 5th Annual 2017 International Conference on Mechanics and Mechatronics (ICMM2017), December 15th-17th , 2017, Xiamen, China. (b) **An invitation** to organizing a Symposium on your research subject within ICNAAM 2016 (International Conference of Numerical Analysis and Applied Mathematics September 19-25, 2016**,** Rhodes, Greece). (c) **An invited speaker** for 2nd International Conference and Expo on Ceramics and Composite Materials to be held during July 25 - 26, 2016 at Berlin, Germany. (d) **An invited speaker** for Nano S&T-2016 with the theme of *"Small is All, The Future of Nanotechnology"* will be held in **Singapore** during **October 26-28, 2016.**
10. **研究著作發表於國際重要期刊**-已發表於 SCI/EI 期刊論文總計近 106 篇(代表性研究成果皆發表於該領域排名前三分之一的一流期刊)。研討會發表論文約 86 篇。至今執行完成國科研究計畫和產學案共計 19 案。
11. **國際期刊及研討會論文評審**- Optics and Lasers in Engineering 2016、AMEC2016 poster award。
12. **國際研討 TPC member**- 2017 International Conference on Material Science and Environment Protection (MSEP2017) will be held in Wuhan, China, during March 24-26, 2017。

科研成果

研究計畫案

[1]. 一種發光二極體製造過程中的實時效率評估和改進方法.主持人（111.8~112.7, 467,000)。
[2]. 材料特性和結構對發光二極體使用壽命的影響研究: 提供發光二極體製造者改善產品的數據.主持人（110.8~111.7, 526,000)。
[3]. 發光二極體的材料性質和結構對效率影響的解析研究-應用到磷化鋁銦鎵和銦鎵氮量子井發光二極體效率的分析**(科技部計畫補助經費50萬1仟)**，主持人（108.8~109.7)。
[4]. 不同於經驗修正定律的蒸氣空間分佈與電漿對電子束物理氣相沉積厚度的影響**(科技部計畫補助經費36萬2仟)**，主持人（107.8~108.7)。
[5]. 發光二極體的效率與熱特性研究-應用到磷化鋁銦鎵/ 磷化銦鎵多量子井紅光二極體的分析**(科技部計畫補助經費47萬1仟)**，主持人（106.8~107.7)。
[6]. 超快脈衝雷射氧化鋁陶瓷切除之物理機制研究**(華夏科技大學計畫補助經費4萬5仟)**，主持人（105.1~105.11)。
[7]. 充當鋰電池的超高電容電極之奈米炭球的電熱效應研究**(科技部計畫補助經費61萬6仟)**，主持人（103.8~104.7)。
[8]. 電子束與電漿間的交互作用之振盪分析**(科技部計畫補助經費57萬3仟)**，主持人（101.8~102.7)。
[9]. 奈米尺度薄膜內的熱傳**(科技部計畫補助經費45萬9仟)**，主持人（100.8~101.7)。
[10].超短時間與超小尺寸熱傳導模式應用於飛秒雷射加工奈米尺度薄膜的熱分析**(國科會計畫補助經費50萬8仟)**，主持人（99.8~100.7)。
[11].雷射與微米顆交互作用引發的散射場所創生的奈米尺度熔區**(國科會計畫第三年補助經費57萬6仟)**，主持人（98.8~99.7)。
[12].雷射與微米顆交互作用引發的散射場所創生的奈米尺度熔區**(國科會計畫第二年補助經費 57 萬 5 仟)**，主持人（97.8~98.7)。
[13].CNC 雕銑機增設雷射加工模組，計畫編號 PT097131087 **(經濟部計畫補助經費 7 萬 2 仟)**，主持人（97.6~97.12)。
[14].物業設備故障快速自動複機研究-以冰水主機為例，計畫編號 NSC 97-2221-E-146 -007 **(國科會計畫補助經費 40 萬 9 仟)**，主持人（96.8~97.7)。
[15].雷射與微米顆交互作用引發的散射場所創生的奈米尺度熔區**(國科會計畫第一年補助經費 57 萬 5 仟)**，主持人（96.8~97.7)。
[16].雷射輔助陶瓷切削的准穩態熱分析 **(國科會計畫補助經費 53 萬 3 仟)**，主持人（95.8~96.7)。
[17].熱電偶以無線方式量測旋轉工件的溫度 **(國科會計畫大專生計畫補助經費 4 萬 7 仟)**，指導教授（95.6~96.2)。
[18].影響固液介面上氣泡形狀的因素 **(國科會計畫補助經費 46 萬 9 仟)**，主持人（94.8~95.7)。
[19].聚焦能量束的加工穴熔區之熱傳**(國科會計畫補助經費 44 萬 2 仟)**，主持人（93.8~94.7)。
[20].奈秒脈衝雷射的陶瓷微鑽孔 **(國科會計畫補助經費 35 萬 2 仟)**，主持人（92.8~93.7)。
[21].Absorption and scattering of plasma in a laser-induced keyhole **(國科會計畫補助經費 39 萬 8 仟)**，主持人（91.8~92.7)。
[22].熔區形狀及其受入射能量從高到低強度隨焦聚效應變化之影響（國科會計畫)，共同主持人(90.8~91.7）。
[23].雷射誘導的加工穴內之能量傳輸**(國科會計畫補助經費 26 萬 4 仟)**，主持人(89.8~90.7)。
[24].An analysis for heat transfer of a line heater，2001，中日電熱有限公司產學合作計畫，共同主持人**(89.8~90.7)。**
[25].Energy absorption in the keyhole subject to a laser beam（國科會)，主持人 **(89.8~90.7)。**

專利

[1] 何慶炎，中華民國專利證書新型第 M497771 號:雷射測中心點裝置。
[2] 何慶炎，中華民國專利證書新型第 M499698 號:可測高度的對焦雷射筆。
[3] 何慶炎，中華民國專利證書發明第 I435749 號: 球類收取裝置。
[4] 何慶炎，中華民國專利證書發明第 1374041 號: 球網拉緊裝置

發表出版的 SCI/EI 期刊論文

A-1 得獎論文（*通訊作者）

- **Ching-Yen Ho***, Yu-Hsiang Tsai, Jing-Yi Lv, Mao-Yu Wen , 2011, Analytical Study on Femtosecond Laser Processing for Au films, 2011 International Conference on Advanced Electromaterials**,** Nov 7, 2011 - Nov 10, 2011 Jeju, Korea. **(**ICAE2011 **Outstanding Paper Award)**

A-2 期刊論文（*通訊作者)備註：發表論文和科研專案須注明類型及作者排名

[1] **Ching-Yen Ho*,** 2023, Determination of Efficiency of Light-Emitting Diodes Using Energy Conservation, International Journal of Mechanical and Production Engineering (IJMPE) , Vol. 11, No 10, pp. 18-21.

[2] C. Y. Ho, L. Zhou, C. W. Xiong, D. Qiao, 2022, Investigation into Ablated Depths of Femtosecond Laser Processing for Aluminum Nitride and Lead Zirconate Titanate Ceramics, Laser and Particle Beam.

[3] Chong-Lin Huang, Dongkai Qiao,**Ching-Yen Ho***, and Chang-Wei Xiong, May 2021, Effects of Plasma and Evaporated Atoms on the Spatial Distribution of Coating Film Thickness for Electron Beam-Induced Material Evaporation, Journal of Nanoelectronics and Optoelectronics, Vol. 16, pp. 791 – 796. (SCI)

[4] Dongkai Qiao, Yu Deng, Chia-Chieh Ho, **Ching-Yen Ho***, Bor-Chyuan Chen, Mao-Yu Wen, and Chang-Wei Xiong, April 2021, Effects of Sizes and Anisotropy Constants of Magnetic Nanoparticles on Hyperthermia Temperature Increase with Time, Science of Advanced Materials (SAR), Vol. 13, No. 4, pp. 718-723. (SCI)

[5] Dongkai Qiao, Chia-Chieh Ho, **Ching-Yen Ho***, Bor-Chyuan Chen, Mao-Yu Wen, Chang-Wei Xiong, June 2021, Instability of Hyperthermia Temperature for Magnetic Nanoparticles of Low Anisotropy Constant Due to Nonlinear Characteristics, Journal of Nanoscience and Nanotechnology, Vol. 21, No. 6, pp. 3306-3311. (SCI)

[6] Chang-Wei Xiong, **Ching-Yen Ho*** and Dong-Kai Qiao, November 2020, Analysis of Direct Optical Ablation and Sequent Thermal Ablation for the Ultrashort Pulsed Laser Photo-Thermal Micromachining, Coatings , Vol. 10 , 1151.(SCI)

[7] Dongkai Qiao, Chia-Chieh Ho, **Ching-Yen Ho***, Bor-Chyuan Chen, Mao-Yu Wen, November 2020, Effects of Specifific Power-Loss on the Characteristics of Temperature in Magnetic Nanoparticles Subjected to External Alternating Magnetic Fields, Journal of the Korean Physical Society, Vol. 77, No. 10, pp. 874-878. (SCI)

[8] **Ching-Yen Ho***, Zui-Wei Liu, Xian-Liang Chen, Dongkai Qiao, Chang-Wei Xiong, Bor-Chyuan Chen, Yu-Jia Chiou, August 2020, Processing Characteristics and Parametric Effects on Picosecond Laser Nanoscaled Patterning of Poly(methyl methacrylate)Nanoscaled Patterning of Poly(methyl methacrylate), Journal of Nanoscience and Nanotechnology, Vol. 20, No.8, pp. 5142-5146. (SCI)

[9] Chang-Wei Xiong, **Ching-Yen Ho***, Jing Zhou, Yu-Jia Chiou, and Bor-Chyuan Chen, January 2020, Thermal Transport Model of Short-Pulse Laser Microscale Ablation for Poly(methyl methacrylate) and Acrylonitrile Butadiene Styrene/Polyvinyl Chloride, Journal of Nanoscience and Nanotechnology, Vol. 20, No. 1, pp. 653 – 657. (SCI)

[10] Chang-Wei Xiong, **Ching-Yen Ho***, Dongkai Qiao, January 2020, Analytical Study on Pulsed-Laser Processing for Acrylonitrile Butadiene Styrene/ PolyVinyl Chloride. Materials Science (MEDŽIAGOTYRA), Vol. 26, pp. 77-82. (SCI)

[11] Song-Feng Wan, **Ching-Yen Ho***, Jing Zhou, Si-Li Fan, Ze-Sheng Zhang, Qing-Bin Li, and Fa-Fen Yao, August 2019, Material Characteristics-Induced Heat Effect in Light Emitting Diode of AlGaInP, Science of Advanced Material, Vol. 11, pp. 1112–1117. (SCI: I.F.=1.318))

[12] **Ching-Yen Ho***, Bor-Chyuan Chen, Jing Zhou, Xiao-Qiong Yu, Yu-Jia Chiou, August 2019, Analytical study on junction temperatures of GaInN and AlGaN UV LEDs, Journal of Nanoscience and Nanotechnology, Vol. 19, No. 8, pp. 4818-4820. . (SCI: I.F.=1.354)

[13] **Ching-Yen Ho*,** Song-Feng Wan, Bor-Chyuan Chen, Long-Gen Li, Si-Li Fan and Chang-Wei Xiong, November 2018, Determining junction temperature based on material properties and geometric structures of LEDs, Optical and Quantum Electronics, Vol. 50, pp. 395-1-11. (SCI: I.F.=1.05)

[14] **Ching-Yen Ho***, Bor-Chyuan Chen, Chang-Wei Xiong, August 2018, A novel spatial-distribution-function of electron beam-induced vapor plume for analyzing EBPVD thickness, AIP ADVANCES, Vol. 8, pp. 085108-1-8. (SCI: I.F.=1.671)

[15] **C. Y. Ho***, B. C. Chen, S. F. Wan, October 2018, Nonlinear Temperature Characteristics in Magnetic Nanoparticles due to Alternating Magnetic Field-Induced Hysteresis Heat, Science of Advanced Materials, Vol. 10, No. 10, pp 1484-1488. (SCI: I.F.=1.318)

[16] Kuen-Hau Chen, Bor-Chyuan Chen, **Ching-Yen Ho***, April 2018, Hyperthermia Temperature of Magnetic Fluid with Superparamagnetic Nanoparticles Subjected to an Alternating Magnetic Field, Journal of Nanoscience and Nanotechnology, Vol. 18, No. 4, pp. 3018-3023. (SCI: I.F.=1.354)

[17] **C. Y. Ho***, B. C. Chen, Y. H. Tsai, 2018, Nanoscale removal of picosecond laser ablation for polymer, Journal of Nanoscience and Nanotechnology, Vol. 18, No. 10, pp.7281-7285. (SCI: I.F.=1.354)

[18] Si-Li Fan , Chang-Wei Xiong, **Ching-Yen Ho***, March 2018, Effect Analysis of Material Properties of Picosecond-Laser Nanoscale Ablation for Acrylonitrile Butadiene Styrene/PolyVinyl Chloride, Journal of Computational and Theoretical Nanoscience, Vol. 15, pp. 1–6.

[19] Yu-Hsiang Tsai, Bor-Chyuan Chen, **Ching-Yen Ho***, Yu-Jia Chiou, Kuen-Hau Chen, Cheng-Sao Chen,

[20] B.C. Chen, K. H. Chen, J. W. Yu, **C.Y. Ho***, and M. Y. Wen, 2017, Analysis of Junction Temperatures for Groups III-V Semiconductors Materials of Light-Emitting Diodes, Optical and Quantum Electronics,Vol. 49, pp. 183-1-11. (SCI: I.F.=1.29)

[21] B. C. Chen, **C. Y. Ho*** , M. Y. Wen, V. H. Lin, Y. C. Lee, 2017, Analytical Study on Deep Penetration Induced by Focused Moving High-Energy Beam, Laser and Particle Beams, Vol. 35(2), pp. 193-201. (SCI: I.F.=1.649)

[22] **C. Y. Ho**, B. C. Chen, J. W. Yu, Y. H. Tsai*, and M. Y. Wen, August 2017, Femtosecond Laser Ablating Depth for Nanometer-Sized Thin Metal Films, Journal of Nanoscience and Nanotechnology, Vol. 17(8), pp. 5893-5895. (SCI: I.F.=1.338)

[23] Y. C. Lee, B. C. Chen, **C. Y. Ho***, M. Y. Wen, and Y. H. Tsai, December 2016, Nonlinear Characteristics of Plasma Induced by an Electron Beam Irradiating the Target Material, IEEE Transactions on Plasma Science, Vol. 44, pp. 3172-3178. (SCI: I.F.=0.958)

[24] Mao-Yu Wen, **Ching-Yen Ho**, Cheng-Hsiung Yeh, 2016, Effect of Surface Vibration on Low Boiling Heat Transfer of R-600A in a Circular Tube With Metallic Porous Inserts, Journal of Enhanced Heat Transfer, Vol. 23 (1), pp. 23–46. (SCI: I.F.=0.562)

[25] B. C. Chen, **C. Y. Ho***, Y. H. Tsai, Y. C. Lee, and M. Y. Wen, 2016,Investigation into Heat Transfer Characteristics in Carbon Nanotube Using Nanoscale Thermal Transport Model, Journal of Nanoscience and Nanotechnology, Vol.16, pp. 9268-9272. (SCI: I.F.=1.338)

[26] **C.Y. Ho**, J. W. Yu, and Y. H. Tsai, 2016, Thermal Characteristics of Region Surrounding Laser Welding Keyhole, IEEE International Conference on Consumer Electronics - Taiwan (ICCE-TW), pp. 250-251. (EI)

[27] **C. Y. Ho**, B. C. Chen, M. Y. Wen, T. D. Yang and Y. C. Lee, 2016, Analysis of Electrical Heating in Hollow Carbon Nanoparticles as Supercapacitor Electrodes for Lithium Batteries, Journal of Nanoscience and Nanotechnology, Vol.16, pp. 9278-9283. (SCI: I.F.=1.338)

[28] B. C. Chen, Y. C. Lee, **C. Y. Ho***, M. Y. Wen and Y. H. Tsai, 2016, Analysis of Removal Region in Nanoscale Metal Film Processed by Ultrafast-Pulse Laser, Computational Materials Science. Vol. 117, pp. 590-595. (SCI: I.F.=2.086)

[29] **C. Y. Ho**, Y. H. Tsai, and J. W. Yu, 2016, Comparison of Ultrashort-Pulse-Laser Ablation Characteristcs for Different Ceramics, IEEE International Conference on Consumer Electronics - Taiwan (ICCE-TW), 256-257. (EI)

[30] M. Y. Wen, K. J. Jang, **C. Y. Ho**, January 2016, Pool boiling heat transfer of deionized and degassed water in packed- perforated copper beads, Heat and Mass Transfer November 2016, Volume 52, Issue 11, pp 2447–2457 (SCI: I.F.=1.044, Rank=92/137), **First Online:** 19 January 2016, DOI: 10.1007/s00231-016-1756

[31] **Ho, C.Y.**, Wu, W.C., Chen, C.S., Ma, C., Tsai, Y.H., 2015, Measurement for temperature on a LED lamp, IEEE International Conference on Consumer Electronics - Taiwan (ICCE-TW), 282-283. (EI)

[32] M. Y. Wen*, K. J. Jang, **C. Y. Ho**, November 2015, Flow Boiling Heat Transfer in R-600A Flow inside an Annular Tube with Metallic Porous Inserts, Journal of Enhanced Heat Transfer, 22 (1), 47–65 (2015) (SCI: I.F.=0.562, Rank=92/137)

[33] **Ching Yen Ho***, Chuang Ma and Yu Hsiang Tsai, 2015, Thermal Process of Drilling for Metal Thin Films Using Femtosecond Laser, Applied Mechanics and Materials, Vol. 764-765, pp. 102-106. (EI)

[34] B. C. Chen, **C. Y. Ho***, M. Y. Wen, C. S. Chen, Y. H. Tsai, and C. Ma, 2015, Ultrashort-laser-pulse machining characteristics of aluminum nitride and aluminum oxide, Ceramics International, Vol. 41, pp. s191-s196. (SCI: I.F.=2.758)

[35] **C. Y. Ho*** , B. C. Chen, Y. H. Tsai, C. Ma, M. Y. Wen, 2015, Analysis for Heat Transfer in a High Current-Passing Carbon Nanosphere Using Nontraditional Thermal Transport Model, Journal of Nanoscience and Nanotechnology, Vol. 15, pp. 9303-9307. (SCI: I.F.=1.338)

[36] **C.-Y. Ho***, H.-H. Ku, Y.-C. Lee, Y.-H. Tsai and M.-Y. Wen, 2015, Prediction of ablated region of ultrafast-pulse laser processing for alumina, Materials Research Innovations, Vol. 19 Suppl. 2, pp. s2-1-4. (SCI)

[37] **Ching-Yen Ho**, Mao-Yu Wen, Yu-Hsiang Tsai, Yi-Chwen Lee, and Hao-Hsiang Ku, 2015, Analytical Study on Nanometer-Sized Ablation of Ultashort-Laser-Pulse for Alumina, Journal of Computational and Theoretical Nanoscience, Vol. 12, No. 5, pp. 1–5. (SCI)

[38] **C. Y. Ho*** and Y. C. Lee , C. Ma, Y. H. Tsai, 2016, Study on Heat Transport in Nanoscale Thin Film Using DPL Model with Phonon Scattering Boundary, Journal of the Chinese Society of Mechanical Engineers (In press) (SCI)

[39] Mao-Yu Wen, Kuang-Jang Jang, **Ching-Yen Ho**, 2014, Boiling heat transfer and pressure drop of R-600a flowing in the mini-channels with fillisters, Heat Mass Transfer, Vol. 50, No. 7, pp. 225-233. (SCI: I.F.=1.044)

[40] Mao-Yu Wen, Kuang-Jang Jang, **Ching-Yen Ho**, 2014, The characteristics of boiling heat transfer and pressure drop of R-600a in a circular tube with porous inserts, Applied Thermal Engineering, Vol. 64, pp. 348-357. (SCI: I.F.=3.043)

[41] **Ching-Yen Ho*** and Wen-Chieh Wu, 2014, Ionic Distribution in Plasma for the Process of Electron-Beam Physical Vapor Deposition, Applied Mechanics and Materials, Vol. 597, pp. 153-156. (EI)

[42] **Ching-Yen Ho***, Yu-Hsiang Tsai, and Chuang Ma, 2014, Effects of External Magnetic Field on Intensity of Plasma Flow, Applied Mechanics and Materials, Vol. 597, pp. 272-275 (EI)

[43] **C. Y. Ho***, C. Ma, D. Y. Chen, B. C. Chen, Y. H. Tsai, 2013, Pressure Effects on Thermal Diffusion in Aluminum Powders Composed of Nanometer- and Micrometer-Sized Particles, Ferroelectrics, Vol. 456, No. 1, pp.38-44. (SCI: I.F.=0.415) (NSC 100-2221-E-146 -005 -)

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