

師資介紹



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職稱： 助理教授

最高學歷： 國立成功大學微電子工程研究所博士

Ph.D., Institute of Microelectronics & Department of Electrical Engineering, National Cheng Kung University, Taiwan

學術專長： 太陽電池、磊晶與薄膜沉積技術、感測器元件、光檢測器、微處理機

- Solar Cells

- Epitaxy and Thin Film Deposition

- Sensors

- Photodetectors

- Microcontroller

業界年資： 凌陽科技、核能研究所

分機：

參考資料目錄:

- A. 曾任校委員
 - B. Referred International Journal Papers (國際期刊)
 - C. Book Chapter (國際專書章節論文)
 - D. International Conference Papers (國際研討會期刊)
 - E. National Technical Journal (國內技術期刊)
 - F. 國內研討會期刊
 - G. 專利發明
 - H. 校外計畫
 - I. 校內計畫
 - J. 指導學生獲獎
 - K. 指導學生專題成果報告
 - L. 指導學生畢業後近況
 - M. 技術報告
 - N. 專書及專書論文
 - O. 技術轉移
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P. 產官學研計畫案

A. 曾任校委員(無)

A1.

B. Referred International Journal Papers (國際期刊)

- B1. **Jei-Li Hou**, Yi-Ting Lin, Ting-Jen Hsueh. Employing Thermal Oxidation and Through-Silicon Via Technologies in CuO-Based Sensors for Room-Temperature NO₂ Detection, Journal of The Electrochemical Society, 2024 (SCI)
- B2. **Jei-Li Hou**, Wei-Heng Lin, Wei-Shou Chen, Shoou-Jinn Chang, Dual-junction gallium nitride solar cells with hybrid tunnel junction layers, International Journal of Modern Physics B, 2024
- B3. The authors reported the fabrication of a dual-junction (2J) GaN solar cell (SC) with hy
- B4. **Jei-Li Hou**, Yi-Ting Lin, Ting-Jen Hsueh, Room-Temperature TiO₂ Gas Sensor with Conical-TSV Using a Thermal Oxidation Process, ACS Applied Electronic Materials, 5, 12, 6542-6548, 2023. (SCI)
- B5. **Jei-Li Hou**, Ting-Jen Hsueh, Shi-Yan Fang and Shih-Wen Kuo, “Gold Nanoparticles Decorated Copper Oxide Nanosheets Sensor for Hydrogen Sulfide Gas Sensing at Room Temperature”, Published on Journal of The Electrochemical Society, Volume 169, Number 8, 2022. (SCI)
- B6. **Jei-Li Hou**, Ting-Jen Hsueh, “Temperature-Dependent n-Type and p-Type Sensing Behaviors of CuO Nanosheets/MEMS to NO₂ Gas”, Published on ACS Applied Electronic Materials 2021, 3, 11, 4817-4823, October 19, 2021. (SCI)
- B7. **Jei-Li Hou**, Ting Jen Hsueh and Mei-Tsen Chen, “The Separation Improvement in Transferring GaAs Solar Cell on Copper Tungsten”, Published on ECS Journal of Solid State Science and Technology, Volume 10, Number 5, 2021. (SCI)
- B8. **Jei-Li Hou**, Sheng-Po Chang, Chih-Hung Wu, Hwen-Fen Hong and Ting-Jen Hsueh, “Optical Switch of a-IGZO TFT and Triple Junction Photovoltaic Cell”, Published on ECS Journal of Solid State Science and Technology, Volume 6, Number 9, September 2017. (SCI)
- B9. **J. L. Hou**, C. H. Wu and S. J. Chang, “Electrochromic device integrated with GaInP/GaAs/Ge triple-junction solar cell”, Published on IEEE Electron Device Letters, Vol. 36, No. 2, pp. 207-209, February 2015. (SCI)
- B10. T. N. Lin, K. H. Chih, M. C. Cheng, C. T. Yuan, C. L. Hsu, J. L. Shen, **J. L. Hou**, C. H. Wu, W. C. Choud and T. Y. Line, “Enhancement of light emission in GaAs epilayers with graphene quantum dots”, Published on RSC Advances, 60908-60913, May 2015. (SCI)

- B11. **Jeï-Li Hou**, Chih-Hung Wu, Ting-Jen Hsueh, “Self-biased ZnO nanowire humidity sensor vertically integrated on triple junction solar cell”, Published on Sensors and Actuators B: Chemical, Volume 197, 137-141, 2014. (SCI)
- B12. S. J. Chang, **J. L. Hou**, T. J. Hsueh, K. T. Lam, S. G. Li, C. H. Liu and S. P. Chang, “Triple-junction GaInP/GaAs/Ge solar cells with an AZO transparent electrode and ZnO nanowires”, Published on IEEE Journal of Photovoltaics, Vol. 3, No. 3, pp. 991-996, July 2013. (SCI)
- B13. **J. L. Hou**, S. J. Chang, M. C. Chen, C. H. Liu, T. J. Hsueh, J. K. Sheu and S. Li, “GaN-based planar p-i-n photodetectors with the Be-implanted isolation ring”, Published on IEEE Transactions on Electron Devices, Vol. 60, No. 3, pp. 1178-1182, March 2013. (SCI)
- B14. **J. L. Hou**, S. J. Chang, C. H. Wu and T. J. Hsueh, “Self-powered ZnO nanowire UV photodetector integrated with GaInP/GaAs/Ge solar cell”, Published on IEEE Electron Device Letters, Vol. 34, No. 8, pp. 1023-1025, August 2013. (SCI)
- B15. **J. L. Hou**, S. J. Chang and S. P. Chang, “A ZnO nanowire photodetector with an Ir electrode integrated on a triple junction solar cell”, Published on International Journal of Electrochemical Science, Vol. 8, No. 4, pp. 5650-5656, April 2013. (SCI)
- B16. **J. L. Hou**, S. J. Chang, T. J. Hsueh, C. H. Wu, W. Y. Weng and J. M. Shieh, “InGaP/GaAs/Ge triple-junction solar cells with ZnO nanowires”, Published on Progress in Photovoltaics, Vol. 21, No. 8, pp. 1645-1652, December 2012. (SCI)

C. Book Chapter (國際專書章節論文): 無

D. International Conference Papers (國際研討會期刊)

D1. Jeï-Li Hou(侯杰利)、Chi-Hsia Chen(陳綺霞), “Museum Inspection System Management and Application(博物館巡檢系統管理與應用)”, The 26th International Conference on Information Management & Practice(IMP 2021)。

E. National Technical Journal (國內技術期刊): 無

F. 國內研討會期刊: 無

G. 專利發明:

G1. 侯杰利等“光切換裝置”(中華民國公告號 I619059)

G2. 侯杰利等“可調變光伏電致變色裝置”(中華民國公告號 I537659)

H. 校外計畫

H1. 行政院國家科學技術發展基金 專題研究計畫，「砷化鎵 LED on Si 磊晶技術開發」，主持人，執行期間
2017/08--2018/07.

I. 校內計畫:無

J. 指導學生獲獎:無

K. 指導學生專題成果報告

L. National Technical Journal (國內技術期刊):無

M. 技術報告:無

N. 專書及專書論文:無

O. 技術轉移:無

P1. 產官學研計畫案:無