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研究成果：

英文期刊論文

- 1 **Ying-Mei Tu** (2023), "Planning Model for OHB Storage Buffer of AMHS in Wafer Fabrication", *TELEMATIQUE*, Vol. 22, No.1, (2023), pp. 61-68 (**MOST 110-2221-E-216-005**)
- 2 **Ying-Mei Tu** (2022), "Model to Evaluate Production Performance under Capacity Fluctuation of High Throughput Equipment in Wafer Fabrication", *International Journal of Mechanical Engineering*, Vol. 7, No.8, (2022), pp. 74-81 (Scopes) (**MOST 109-2221-E-216-005**)
- 3 **Ying-Mei Tu** (2021), "Short-Term Scheduling Model of Cluster Tool in Wafer Fabrication", *Mathematics*, Vol. 9, No.9, (2021), pp. 1-14 (SCIE) (**MOST 108-2221-E-216-003**)
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- 5 **Ying-Mei Tu** (2019), "Throughput Estimation Model of Cluster Tool in Semiconductor Manufacturing", *Key Engineering Materials*, Vol. 814, pp 196-202 (EI) (**MOST 107-2221-E-216-006**)
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- 7 **Ying-Mei Tu**, Chun-Wei Lu (2016), "Best Fab Scale for Wafer Fabrication Based on Production Performance", *IEEE Transactions on Semiconductor Manufacturing*, Volume 29, Issue 4, 2016, p419-428. (SCI/EI) (**NSC 102-2221-E-216 -030**)
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- 12 **Ying-Mei Tu**, Che-Hao Chang (Student) and Chun-Wei Lu (Student), "Model to Determine

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- 13 **Ying-Mei Tu**, Chun-Wei Lu (Student) and Amy H. I. Lee, “AMHS Capacity Determination Model for Wafer Fabrication Based on Production Performance Optimization”, International Journal of Production Research, Volume 51, Issue 18, 2013, pp5520-5535. (SCI/EI) (**NSC 97-2221-E-216-031MY2**)
- 14 **Ying-Mei Tu**, Chun-Wei Lu (Student) and Sheng-Hung Chang, “Model to Evaluate Production Performance of Twin-Fab under Capacity Support” Advanced Materials Research Vols. 694-697, 2013, pp 3453-3457. (EI) (**NSC 97-2221-E-216-031MY2**)
- 15 **Ying-Mei Tu** and Tun-Hao Hsu (Student), “Model to Plan and Control the Generational Transition of DRAM Industry”, Advanced Materials Research Vols. 694-697, 2013 pp 3458-3461.(EI) (**NSC 100-2628-E-216-002-MY2**)
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- 19 **Ying-Mei Tu** and Hsin-Nan Chen (Student), ”Capacity Planning With Sequential Time Constraints under Various Control Policies in the Back-End of Wafer Fabrications”, Journal of Operations Research Society. Volume 61, Issue 8 (2010), p1258-1264. (**NSC 95-2221-E-216-014**) (SSCI/SCI)
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- 25 **Ying-Mei Tu** and Chuen-Shiuan Liou (2006) ,” Capacity Determination Model with Time Constraints and Batch Processing in Semiconductor Wafer Fabrication”, Journal of the Chinese Institute of Industrial Engineers, Vol 23, No 3, 2006, p192-199 (EI/TSSCI)
- 26 **Ying-Mei Tu**, Yu-Hsiu Chao, Sheng-Hung Chang and Huan-Chung You (2005), “Model to Determine the Backup Capacity of a Wafer Foundry”, International Journal of Production Research, Vol. 43, No. 2, 2005, p339-359. (**NSC 90-2218-E-216-001**) (SCI/EI)

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- 2 杜瑩美、黃英鈺（學生）、陳欣男（學生），“晶圓製造廠內具時間限制的生產線段之現場管控模式”，2010 中華管理學報，第十一卷 第一期 第 1-22 頁。 (**NSC 96-2221-E-216-038-**)
- 3 郭勃顯、杜瑩美、張盛鴻、李榮貴 (2008),「新產品專案組合決策系統之研究」，明新學報，第 34 期，第 107-126 頁。
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2. Ying-Mei Tu, (2018), ”Productivity Improvement of Cluster Tool in Modern Semiconductor Factories by Simulation and TOC”, **2018 International Conference on Knowledge, Innovation and Enterprise (MOST 106-2221-E-216-010-)**
3. Ying-Mei Tu, (2018), ”The Dispatching and Control Model of Stocker in 300 mm Wafer Fabrication”, The 4th Asia-Pacific Conference on Social Sciences and Management (APCSSM) (**MOST 104-2221-E-216-005-MY2**)
4. Ying-Mei Tu, (2017), ”A Capacity Planning Model for Stockers in 300mm Wafer Fabrication factory”, 21st Conference of the International Federation of Operational Research Societies (**MOST 104-2221-E-216-005-MY2**)
5. Ying-Mei Tu, Chun-Wei Lu (2016), ”The Influence of Lot Size on Production Performance in Wafer Fabrication Based on Simulation”, 13th Global Congress on Manufacturing and Management (**MOST 104-2221-E-216-005-MY2**)
6. Ying-Mei Tu (2015), ”Wafer Release Decision Model of Giga-fab”, Second European Academic Research Conference on Global Business, Economics, Finance and Banking (**MOST 103-2221-E-216-021**)
7. Ying-Mei Tu and Che-Hao Chang(2014),” Giga-fab Scale Determination Model for Wafer Fabrication Based on Production Performances”, The 2014 International Conference of Manufacturing Engineering and Engineering Management. (**NSC 102-2221-E-216 -030**)
8. Ying-Mei Tu and Chao-I Wang, (2013), “Technology Migration Determination Model For DRAM Industry”, 15th International Conference on Enterprise Information Systems. (**NSC 100-2628-E-216-002-MY2**)
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- DRAM Industry”, The 9th International Conference on Informatics in Control, Automation and Robotics. (**NSC 100-2628-E-216-002-MY2**)
- 10. **Ying-Mei Tu**, Wan-Rong Lu and Si-Ping Feng, (2012),” Product Arrival Prediction by Regression Analysis in Wafer Fabrication”, The 3nd International Conference on Engineering and Business Management.
 - 11. **Ying-Mei Tu**, Hsin-Nan Chen, Wei-Chieh Chen, Yung-Hsin Kao, Chun-Chiang Yeh, (2012),” Model to Determine the Number of Factors for Neural Network Forecasting System”, The 3nd International Conference on Engineering and Business Management.
 - 12. Chun-Wei Lu and **Ying-Mei Tu**, (2012),” A Model to Control Capacity Backup for Twin Fabs of Wafer Fabrication”, The 3nd International Conference on Engineering and Business Management. (**NSC 97-2221-E-216-031MY2**)
 - 13. Chao-I Wang and **Ying-Mei Tu**, (2012),” The model to determine optimal timing of capacity replacement for manufacturing technology upgrades”, The 3nd International Conference on Engineering and Business Management. (**NSC 100-2628-E-216-002-MY2**)
 - 14. **Ying-Mei Tu**, (2011),” Shop Floor Control Model for Wafer Fabrication and Flip Chip”, The 10th International Conference on Information and Management Sciences. (**NSC 99-2221-E-216-029**)
 - 15. Hsin-Nan Chen and **Ying-Mei Tu**, (2011),”Service Time Modification and Capacity Planning with Service Interruptions in a Service System”, 2011 兩岸工業工程與管理學術研討會
 - 16. Chun-Wei Lu and **Ying-Mei Tu**, (2011),”Performance Estimation Model of Twin Fabs under Capacity Backup”, The 2nd International Conference on Engineering and Business Management. (**NSC 97-2221-E-216-031MY2**)
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 - 20. **Ying-Mei Tu**, Chun-Wei Lu (2010),”Factors Analysis of Capacity Backup Policy for Twin Fabs”, 2010 International Conference on Engineering and Business Management. (**NSC 97-2221-E-216-031MY2**)
 - 21. **Ying-Mei Tu**, Yu-Hsin Lin, and Shiao-Ping Chan (2010),” The Study of A Multi-Criteria Assessment Model for Material Substitutions and Key Performance Indication Management”, International Conference on Engineering and Business Management.
 - 22. **Ying-Mei Tu**, Chun-Wei Lu (2009),”Model To Determine AMHS Capacity For Wafer Fabrication”, Global Business and Technology Association’s Eleventh Annual International Conference. (**NSC 97-2221-E-216-031MY2**)
 - 23. **Ying-Mei Tu**, Hsin-Nan Chen (2008), ”The Effect of Downtime Frequency at Fixed Machine Availability in Queuing Systems”, 2008 IEEE International Conference on Service Operations and Logistics, and Informatics. (**NSC 95-2221-E-216-014**)
 - 24. **Ying-Mei Tu**, Chun-Wei Lu (2008), “A General X-Factor Determination Model for Wafer Fabrication”, 2008 IEEE International Conference on Service Operations and Logistics, and Informatics.
 - 25. **Ying-Mei Tu** (2008), “Capacity Planning for Batch-Serial Processes with Time Constraints in Wafer Fabrication”, 2008 Global Business & International Management Conference. (**NSC 95-2221-E-216-014**)
 - 26. **Ying-Mei Tu**, Hsin-Nan Chen (2008), “Shop-Floor Control Model in Batch Processes of Wafer Fabrication with Time Constraints”, 19th Annual Conference of the Production and

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 31. Huan-Chung You, **Ying-Mei Tu**, Joseph Z. Shyu(2006), “Strategic Clustering of Innovation in Catching up Economies”, 15th International Conference on Management of Technology.
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 33. **Ying-Mei Tu** and Hsin-Nan Chen, “The influence of forecasting accuracy and information sharing of collaboration in supply chain”, 2003 International Conference on Industrial Engineering & Engineering Management (IE&EM'2003).

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3. 杜瑩美、劉醇玄、張逸輝，「等候時間限制問題下批量生產機台之產能決策模式」，中國工業工程學會九十四年度年會暨學術研討會。
4. 杜瑩美、劉采風，「時間限制下晶圓廠批量機台之現場管控模式」，中國工業工程學會九十四年度年會暨學術研討會。
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9. 林志翰，張盛鴻，杜瑩美，李榮貴，“瓶頸漂移問題之分析與研究”，中國工業工程學會九十三年度年會暨學術研討會。
10. 杜瑩美，林忠文，“晶圓代工廠時間限制下之產能決策模式”，第一屆管理知識與技術提升學術研討會，2004.
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14. 杜瑩美，趙裕修，“晶圓代工廠產能支援決策模式”，中國工業工程學會九十年度年會暨學術研討會。(**NSC 90-2218-E-216-001**)
16. 杜瑩美，張盛鴻，李榮貴，“晶圓製造廠在製品分佈圖之建立”，中國工業工程學會八十

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研究計畫

1. 杜瑩美, 主持人, 晶圓代工廠產能支援決策模式, NSC 90-2218-E-216-001-, 民國 90 年 8 月至 91 年 7 月。
2. 杜瑩美, 主持人, 供應鏈中預測準確度與資訊分享對協同關係的影響, 中華 大學, 民國 92 年 11 月至 93 年 10 月。
3. 杜瑩美, 主持人, 備用零件需求預測與存貨管理系統—光電儀器設備業為例, NSC 93-2622-E-216-018-CC3, 民國 3 年 11 月至 94 年 10 月。
4. 杜瑩美, 共同主持人, 以 TOC 績效衡量方法發展 BI 系統, NSC94-2213-E-009-077-, 民國 94 年 8 月至 95 年 7 月。
5. 杜瑩美, 主持人, 晶圓製造廠在時間限制下之產能規劃與現場管控決策模式 (I), NSC 95-2221-E-216-014-, 民國 95 年 8 月至民國 96 年 7 月。
6. 杜瑩美, 共同主持人, 打破市場制約的可行願景研究—TOC 方法, NSC 95-2221-E-009-191-, 民國 95 年 8 月至民國 96 年 7 月。
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15. 杜瑩美, 主持人, 超大型晶圓廠之設計、規畫與管控整合模式(I), NSC 102-2221-E-216-030, 民國 102 年 8 月至民國 103 年 7 月。
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17. 杜瑩美, 主持人, 批量(lot size)政策對晶圓製造之影響, MOST 104-2221-E-216-005-MY2, 民國 104 年 8 月至民國 106 年 7 月。
18. 杜瑩美, 主持人, FAB5 2015 年聘請技術顧問進行 Y 機台生產參數模擬專案, 104-B03-001, 台灣積體電路公司產學合作計畫, 民國 104 年 8 月至民國 104 年 12 月。
19. 杜瑩美, 主持人, 科技部延攬科技人才-博士後研究(批量(lot size)政策對晶圓製造之影響, 104-2811-E-216-001, 民國 104 年 8 月至民國 105 年 7 月。

20. 杜瑩美，主持人，晶圓廠中單片多反應室機台之規劃與管控(I)，MOST 106-2221-E-216-010，民國 106 年 8 月至民國 107 年 7 月。
21. 杜瑩美，主持人，晶圓廠中單片多反應室機台之規劃與管控(II)，MOST 107-2221-E-216-006，民國 107 年 8 月至民國 108 年 7 月。
22. 杜瑩美，主持人，晶圓廠中單片多反應室機台之規劃與管控(III)，MOST 108-2221-E-216-003，民國 108 年 8 月至民國 109 年 7 月。
23. 杜瑩美，主持人，中小型晶圓廠中高速產出機台之規劃與管控，MOST 109-2221-E-216-005，民國 109 年 8 月至民國 110 年 7 月。
24. 杜瑩美，主持人，晶圓廠自動化搬運系統暫存區之規劃，MOST 110-2221-E-216-005，民國 110 年 8 月至民國 111 年 7 月。