

五、著作目錄

(A) 專利

1. **黃冠雄**、蔡得民、林博正與光灼華，2018，傳動整合系統及其控制方法，中國發明專利，證書號第 2845752 號，專利號：ZL 2014 1 0245034.7。
2. **黃冠雄**、林志霖、蔡得民、林博正與光灼華，2018，混合動力傳動整合系統及其控制方法，中國發明專利，證書號第 2824345 號，專利號：ZL 2014 1 0244683.5。
3. **黃冠雄**、林志霖、蔡得民、林博正與光灼華，2017，混合動力傳動整合系統及其控制方法，中華民國發明專利，證書號：發明第 I568614 號。
4. Chern, T. L., Tsay, D. M., Kuang, J. H., **Hwang, G. S.**, Liu, L. H., Chen, W. T., Pan, P. L., and, Huang, T. M., 2016, Wind power excitation synchronous generation system having maximum power determining unit and control method thereof, United States Patent, Patent No. US 9444379 B2.
5. **黃冠雄**、蔡得民、林博正與光灼華，2016，傳動整合系統及其控制方法，中華民國發明專利，證書號：發明第 I548825 號。
6. **Hwang, G. S.**, Tsay, D. M., Lin, B. J., and Kuang, J. H., 2016, Hybrid Power Transmission Integrated System and Method Thereof, United States Patent, Patent No. US 9340099 B2.
7. **黃冠雄**、蔡得民、光灼華與陳遵立，2015，序列型可獨立控制傳動機構，中國發明專利，證書號第 1827361 號，專利號：ZL 2011 1 0240125.8。
8. **黃冠雄**、蔡得民、光灼華與陳遵立，2015，精簡並聯型可獨立控制傳動機構，中國發明專利，證書號第 1826919 號，專利號：ZL 2011 1 0240432.6。
9. 陳遵立、蔡得民、光灼華、**黃冠雄**、劉立祥、陳韋廷、潘屏榮、黃聰謀，2015，風力發電の励磁同期發電システム及びその制御方法，日本特許專利，證書號：特許第 5712124 號。
10. 陳遵立、蔡得民、光灼華、**黃冠雄**、劉立祥、陳韋廷、潘屏榮、黃聰謀，2015，風力發電之激磁式同步發電機系統的控制方法，中國發明專利，證書號第 1633667 號，專利號：ZL 2011 1 0237776.1。
11. **黃冠雄**、蔡得民、林重琪、光灼華與陳遵立，2015，單位比值序列型可獨立控制傳動機構，中國發明專利，證書號第 1570391 號，專利號：ZL 2010 1 0619792.2。
12. **黃冠雄**、蔡得民、光灼華與陳遵立，2014，序列型可獨立控制傳動機構，中華民國發明專利，證書號：發明第 I421424 號。
13. **黃冠雄**、蔡得民、林重琪、光灼華與陳遵立，2014，單位比值序列型可獨立控制傳動機構，中華民國發明專利，證書號：發明第 I421422 號。
14. 陳遵立、蔡得民、光灼華、**黃冠雄**、劉立祥、陳韋廷、潘屏榮、黃聰謀，2014，風力發電之激磁式同步發電機系統的控制方法，中華民國發明專利，證書號：發明第 I446138 號。

15. **Hwang, G. S.** and Tsay, D. M., 2013, Independently Controllable Transmission Mechanisms, United States Patent, Patent No. US 8585530 B2.
16. **Hwang, G. S.**, Tsay, D. M., Lin, C. C., Kuang, J. H. and Chern, T. L., 2013, Independently Controllable Transmission Mechanisms with an Identity-Ratio Series Type, United States Patent, Patent No. US 8585531 B2.
17. **Hwang, G. S.**, Tsay, D. M., Kuang, J. H. and Chern, T. L., 2013, Independently Controllable Transmission Mechanisms with Series Types, United States Patent, Patent No. US 8585532 B2.
18. **Hwang, G. S.**, Tsay, D. M., Kuang, J. H. and Chern, T. L., 2013, Independently Controllable Transmission Mechanisms with Simplified Parallel Types, United States Patent, Patent No. US 8585533 B2.
19. **黃冠雄**、蔡得民、光灼華與陳遵立，2013，精簡並聯型可獨立控制傳動機構，中華民國發明專利，證書號：發明第 I411735 號。
20. **黃冠雄**與蔡得民，2013，可獨立控制傳動機構，中國發明專利，證書號第 1202199 號，專利號：ZL 2009 1 0173627.6。
21. **黃冠雄**、蔡得民、林重琪、光灼華與陳遵立，2011，單位比率シリーズ式独立制御できる伝動機構，日本実用新案，登録番号：実用新案登録第 3172332 号(U3172332)。
22. **黃冠雄**、蔡得民、光灼華與陳遵立，2011，シリーズ式独立制御できる伝動機構，日本実用新案，登録番号：実用新案登録第 3172333 号(U3172333)。
23. **黃冠雄**、蔡得民、光灼華與陳遵立，2011，簡易化並列式独立制御できる伝動機構，日本実用新案，登録番号：実用新案登録第 3172334 号(U3172334)。
24. **黃冠雄**與蔡得民，2010，可獨立控制傳動機構，中華民國發明專利，證書號：發明第 I 329173 號。

(B) 期刊論文

1. **Hwang, G. S.***, Liao, W. H., Tsay, D. M., and Lin, B. J., 2016, "Synthesis and Analysis of a Parallel-Type Independently Controllable Transmission Mechanism," *ASME Journal of Mechanisms and Robotics*, Vol. 8, No. 4, pp. 041007-1-041007-8. DOI:10.1115/1.4032589 (SCI, EI)
2. **Hwang, G. S.*** and Lin, C. C., 2015, "Innovative Design of a Transmission Mechanism for Variable Speed Wind Turbines," *JSME Journal of Advanced Mechanical Design, Systems, and Manufacturing*, Vol. 9, No. 3, pp. 1-11. DOI: 10.1299/jamdsm.2015jamdsm0032 (SCI, EI)
3. **Hwang, G. S.***, Tsay, D. M., Kuang, J. H., and Chern, T. L., 2012, "Kinematic and Dynamic Analyses of a Series-Type Independently Controllable Transmission," *Advanced Materials Research*, Vol. 579, pp. 483-493. DOI: 10.4028/www.scientific.net/AMR.579.483 (EI)

4. **Hwang, G. S.***, Tsay, D. M., Liao, W. H., Kuang, J. H., and Chern, T. L., 2011, "Kinematic Analysis of an Independently Controllable Transmission with a Parallel Type," *International Journal of Automation and Smart Technology*, Vol. 1, No. 1, pp. 87-92. DOI: 10.5875/ausmt.v1i1.73 (INSPEC, DOAJ)
5. **Hwang, G. S.***, Lin, C. C., Tsay, D. M., Kuang, J. H., and Chern, T. L., 2010, "An Innovative Transmission Mechanism Applicable to Variable Speed Wind Turbines," *Renewable Energies and Power Quality Journal (RE&PQJ)*, ISSN: 2172-038X, 8, paper No. 384.
6. **Hwang, G. S.*** and Tsay, D. M., 2009, "Profile Surfaces of Cylindrical Cams with Arbitrary-Shaped Followers," *Proc. IMechE, Part C: J. Mechanical Engineering Science*, 223(8), 1943-1953. (SCI/EI)
7. **Hwang, G. S.***, Tsay, D. M. and Huang, M. H., 1996, "Profile Determination of Plate Cams with Oscillating Convex Arbitrary-shaped followers," *ImechE Journal of Mechanical Engineering Sciences*, Vol. 210, pp. 333-339. (SCI/EI)
8. Tsay, D. M. and **Hwang, G. S.**, 1996, "The Synthesis of the Motion Function for the Follower of the Camoid," *ASME Journal of Mechanical Design*, Vol. 118, No. 1, pp. 138-143. (SCI/EI)
9. Tsay, D. M. and **Hwang, G. S.**, 1994, "The Profile Determination and Machining of Camoids with Oscillating Spherical Followers," *ASME Journal of Engineering for Industry*, Vol. 116, No. 3, pp. 355-362. (SCI/EI)
10. Tsay, D. M. and **Hwang, G. S.**, 1994, "Application of the Theory of Envelope to the Determination of Camoid Profiles with Translating Followers," *ASME Journal of Mechanical Design*, Vol. 116, No. 1, pp. 320-325. (SCI/EI)

(C) 研討會論文

1. Yi-Tsung Lin, Der-Min Tsay, **Guan-Shong Hwang***, and Bor-Jeng Lin, A Study on Improving the Productivity of Scrolls, The 15th International Conference on Automation Technology (Automation 2018), December 6-8, 2018, Taichung, Taiwan.
2. Tsung-Chun Lin*, **Guan-Shong Hwang**, Der-Min Tsay, Jao-Hwa Kuang, and Jian-Lin Chen, Synthesis and Analysis of a Cam Mechanism with a Long-stroke Constant Velocity Follower Motion for Nut Tapping, The 15th International Conference on Automation Technology (Automation 2018), December 6-8, 2018, Taichung, Taiwan.
3. Yi-Tsung Lin, Jia-Lun Jhang, Xian-Ghong Ko, Der-Min Tsay, and **Guan-Shong Hwang**, 2017, "A Study on Improving Productivity for Scrolls," 11th International Workshop on Integrated Design Engineering, IDE Workshop, April 5-7, Magdeburg, Germany.
4. 林宗儒*、**黃冠雄**、蔡得民、林博正與光灼華，2016，"多葉凸輪減速機構設計與動力分析"，中國機械工程學會第33屆全國學術研討會，12月3-4日，台北，台灣。
5. 蔡得民、陳中和*、光灼華、林博正與**黃冠雄**，2016，"轉移矩陣法應用於風力發電傳動系統動態特性之研究"，中華民國力學學會第40屆全國力學會議，11月25-26日，新竹，台灣。

6. Lin C. L., Tsay D. M., Perng J. W., Kuang J. H., **Hwang G. S.**, and Lin B. J., 2015, "Experimental Verification of the Speed-Stabilizing and Power-Splitting Transmission Mechanism for Wind Turbines," *IFTOMM 14th World Congress in Mechanism and Machine Science*, October 25-30, Taipei, Taiwan.
7. **黃冠雄**、蔡得民、光灼華、彭昭暉、林志霖、王玟丰、沈鳴奇與林博正，2014，"應用於風機之新型可調控穩速分流傳動機構模擬驗證"，臺灣風能學術研討會，12月16日，台北，台灣。
8. **Hwang, G. S.**, Lin, B. J., Kuang, J. H., Liao, W. H., Perng, J. W., Tsay, D. M.* and W. F. Wang, 2014, "Synthesis and Analysis of an Independently Controllable Gear Train for Wind Turbines," *Proceedings of ASME Turbo Expo 2014: Turbine Technical Conference and Exposition*, paper No. GT2014-27104. June 16-20, Düsseldorf, Germany.
9. **黃冠雄**、林志霖、沈鳴奇、王玟丰、蔡得民、光灼華、林博正與彭昭暉，2013，"可獨立控制傳動機構於油電混合車之應用分析"，中國機械工程學會第三十屆全國學術研討會，12月6~7日，宜蘭，台灣。
10. **黃冠雄**、林博正、光灼華、廖偉向、彭昭暉、蔡得民與王玟丰，2013，"獨立可調控風機傳動系統合成與分析"，臺灣風能學術研討會，12月5日，基隆，台灣。
11. **黃冠雄**、沈鳴奇、王玟丰、林志霖、蔡得民、光灼華、林博正與彭昭暉，2013，"具增速穩速及功率分流功能之傳動機構"，第十六屆全國機構與機器設計學術研討會，論文編號：conf-072_2，11月1日，新竹，台灣。
12. Perng, J. W., Chen, G. Y., Tsay, D. M., Kuang, J. H., Lin, B. J. and **Hwang, G. S.**, 2013, "Design of PSO Based PI Controller for Wind Turbine Systems," *3rd ICMEME*, Changsha, China.
13. 陳遵立、潘屏榮、陳韋廷、蘇謙懷、黃聰謀、蔡得民、光灼華與**黃冠雄**，2012，"一創新激磁式同步發電機之風力發電系統架構"，臺灣風能學術研討會，12月11日，新竹，台灣。
14. **Hwang, G. S.***, Tsay, D. M., Kuang, J. H., Chern, T. L., and Kuo, T. C., 2012, "Design of a Series-Type Independently Controllable Transmission Mechanism," *the ASME 11th Biennial Conference On Engineering Systems Design And Analysis*, July 2-4, Nantes, Franc.
15. **Hwang, G. S.***, Tsay, D. M., Kuang, J. H., and Chern, T. L., 2012, "Kinematic and Dynamic Analyses of a Series-Type Independently Controllable Transmission Mechanism," *International Conference on Advanced Manufacturing*, 4-8 March, Yilan, Taiwan.
16. 陳遵立*、劉立祥、陳韋廷、蘇謙懷、蔡得民、光灼華、**黃冠雄**、潘屏榮、黃聰謀，2012，"一創新風力發電之激磁式同步發電機系統架構"，101年度台電節約能源論文發表會，4月24日，高雄，台灣。
17. **Hwang, G. S.***, Lin, C. C., Tsay, D. M., Kuang, J. H., and Chern, T. L., 2011, "Dynamic Analysis and Verification of a Parallel-Type Independently Controllable Transmission," *the 11th International Conference on Automation Technology*, November 18-20, Douliou, Yunlin, Taiwan.
18. **Hwang, G. S.***, Lin, C. C., Tsay, D. M., Kuang, J. H., and Chern, T. L., 2011, "Power Flows and Torque Analyses of an Independently Controllable Transmission with a Parallel Type," *the International Conference of Mechanical Engineering of the World Congress on Engineering 2011 (WCE 2011)*, July 6-8, London, UK
19. Tzuen-Lih Chern*, Tsung-Mou Huang, Wen-Yuen Wu, Whei-Min Lin, **Guan-Shyong Hwang**, 2011, "Design of LED Driver Circuits with Single-stage PFC in CCM and DCM," *IEEE Conference on Industrial Electronics and Applications*, 21-23 June, Beijing, China.

20. 廖偉向，黃冠雄，蔡得民，光灼華與陳遵立，2011，"並聯型可獨立控制傳動機構於風力發電應用之動態分析及實證"，臺灣風能學術研討會，12月26日，台南，台灣。
21. 廖偉向，黃冠雄，蔡得民，光灼華與陳遵立，2011，"並聯型可獨立控制傳動機構動態分析及實證"，中國機械工程學會第二十八屆全國學術研討會，12月10~11日，台中，台灣。
22. 陳遵立、劉立祥、陳韋廷、蘇謙懷、蔡得民、光灼華、黃冠雄、潘屏榮與黃聰謀，2011，"應用於風力發電之激磁式同步發電機最大功率追蹤控制方法"，臺灣風能學術研討會，12月26日，台南，台灣。(優秀論文獎)
23. Hwang, G. S.*, Lin, C. C., Tsay, D. M., Kuang, J. H., and Chern, T. L., 2010, "An Innovative Transmission Mechanism Applicable to Variable Speed Wind Turbines," *International Conference on Renewable Energies and Power Quality (ICREPQ'10)*, 23rd to 25th March, Granada, Spain. (Best Poster Award)
24. Hwang, G. S.*, Tsay, D. M., Kuang, J. H., and Chern, T. L., 2010, "Kinematical Analysis of a Novel Transmission Mechanism with Steady-Speed Output for Variable Speed Wind Turbines," *Proceedings of ASME Turbo Expo 2010: Power for Land, Sea and Air*, June 14-18, Glasgow, UK.
25. Hwang, G. S.*, Lin, C. C., Liao, W. H., Tsay, D. M., Kuang, J. H., and Chern, T. L., 2010, "Kinematic analysis of a novel independently controllable transmission mechanism with a parallel type," *CSMMT 2010 第13屆中華民國全國機構與機器設計學術研討會*, October 21~25, Taipei, Taiwan.
26. 林重琪*、黃冠雄、蔡得民、光灼華、陳遵立、廖偉向，2010，"可獨立控制傳動機構於風力發電應用之實驗分析與實證"，臺灣風能學術研討會，99年12月17~18日，澎湖，台灣。
27. 林重琪*、黃冠雄、蔡得民、光灼華與陳遵立，2010，"可獨立控制傳動機構之實驗分析與實證"，中國機械工程學會第27屆全國學術研討會，論文編號：BB06-008，12月10~11日，台北，台灣。
28. 陳遵立*、劉立祥、林師緯、蔡得民、黃冠雄，2010，"具電流回授無感測轉速控制驅動器應用於三相無刷直流風扇馬達"，中華民國第31屆電力工程研討會，12月3~4日，台南，台灣。
29. Hwang, G. S.*, Chen, H. P. and Tsay, D. M., 2008, "Recent Developments in Determination of 3D Cam Profiles," *7th cross-Strait Conference on Advanced Manufacturing Technology*, 21-24 December, HKUST, Hong Kong, PRC.
30. 黃冠雄*，2006，"幾何建模在工程上的應用—以B仿線曲線與曲面為例"，全國數位內容學術研討會論文集第一冊 *Proceedings of the 2nd National Conference on Digital Contents Volume I*, pp. 232-235.
31. Hwang, G. S.*, 2004, "Profile Derivation of Plate Cams with Arbitrary-Shaped Followers," *Proceedings of the 21st National Conference on Mechanical Engineering Part C-I, CSME*, pp. 2043-2048.
32. Tsay, D. M. and Hwang, G. S., 1992, "Application of the Theory of Envelope to the Determination of Camoid Profiles with Translating Followers," *Mechanism Design and Synthesis, DEV-Vol. 46*, eds. G. Kinzel et al., *ASME*, pp. 345-352.