

*吳國梅教授

所有發表期刊論文

1. **G. M. Wu**, L. H. Hsieh, H. W. Chien, "Enhanced solar cell conversion efficiency using birefringent liquid crystal polymer homeotropic films from reactive mesogens," *Int J Mol Sci*, 14, 21319 (2013)
2. C. N. Chen, J. J. Huang, **G. M. Wu**, H. W. Chien, "Taper angle of silicon nitride thin film control by laser direct pattern for transistors fabrication," *Appl Mech Mater*, 284, 225 (2013)
3. **G. M. Wu**, Y. D. Chen, C. W. Chou, H. W. Chien, "Low temperature nanocomposite alignment films for optically compensated bend liquid crystal displays," *Thin Solid Films*, 544, 576 (2013)
4. **G. M. Wu**, S. J. Lin, C. C. Yang, "High performance composite solid polymer electrolyte systems for electrochemical cells," *J Power Sources*, 244, 287 (2013)
5. **G. M. Wu**, C. J. Huang, H. W. Chien, "Improved nucleation and transition by plasma treatments for fast response optically-compensated-bend displays," *Acta Physica Polonica A*, 123, 6, 9109 (2013)
6. **G. M. Wu**, Y. S. Lin, K. N. Tu, "Ion beam surface modification of GaN films for high efficient light emitting diodes," *Acta Physica Polonica A*, 123, 6, 9117 (2013)
7. **G. M. Wu**, H. H. Lin, K. Y. Cheng, "High efficiency organic white-light-emitting diodes with dual electrophosphorescent layers," *Adv Sci Lett*, 19, 1, 16 (2013)
8. C. N. Chen, **G. M. Wu**, H. W. Chien, J. J. Huang, "Photo-resist protected technology application on solution-based IZO TFT," *Adv Information Sci Serv Sci*, 4, 20, 1 (2012)
9. **G. M. Wu**, K. N. Tu, C. C. Kuo, "Engineering design of high quality GaN epitaxy on silicon substrate using varying GaN/AlGaIn composite buffer structures," **Rare Metal Mat Eng**, 41, S1 (2012)
10. **G. M. Wu**, Y. F. Chen, H. C. Lu, "Aluminum-doped zinc oxide thin films prepared by sol-gel and RF magnetron sputtering," *Acta Physica Polonica A*, 120, 45 (2011)
11. **G. M. Wu**, B. H. Tsai, S. F. Kung, C. F. Wu, "Improved light extraction efficiency by photonic crystal arrays on transparent contact layer using focused ion beams," *Acta Physica Polonica A*, 120, 42 (2011)
12. H. W. Chien, **G. M. Wu**, C. W. Chiue, C. N. Chen, "Surface modification of polyimide alignment films by ion beams for liquid crystal displays," *Surf Coat*

- Tech, 206, 797 (2011)
13. **G. M. Wu**, C. C. Yen, B. H. Tsai, H. W. Chien, "Preparation and characterization of GaN photonic crystal arrays by focused ion beam technology," Surf Coat Tech, 206, 801 (2011)
 14. **G. M. Wu**, C. C. Yen, H. W. Chien, H. C. Lu, T. W. Chang, T. E. Nee, "Effects of nano-structured photonic crystals on light extraction enhancement of nitride light-emitting diodes," Thin Solid Films, 519, 5074 (2011)
 15. **G. M. Wu**, I. C. Hsu, S. J. Lin, "High performance solid polymer electrolyte membranes prepared from polyether ether ketone composites," Technical Proceedings of NSTI-Nanotech, 3, 817 (2010)
 16. **G. M. Wu**, H. W. Chien, J. W. Huang, H. L. Zeng, "Intermediate pre-tilt angle control by a composite alignment thin film structure for liquid crystal displays," Nanotechnology, 21, 134022 (2010)
 17. **G. M. Wu**, H. W. Chien, C. N. Chen, C. Y. Lin, J. A. Huang, H. L. Zeng, "Improved liquid crystal pretilt angles by patterned dual alignment coating structures," J Nanosci Nanotechno, 10, 4592 (2010)
 18. Y. T. Chen, J. W. Teng, J. C. Wang, T. E. Nee, Y. H. Lu, **G. M. Wu**, Y. F. Wu, "Anomalous temperature-dependent behaviors of electroluminescence phenomena in disordered ITO/PEDOT/PF/ Ca/Al polymer light-emitting diodes," J Luminescence, 130, 1000 (2010)
 19. **G. M. Wu**, C. N. Chen, W. S. Feng, H. C. Lu, "Improved AMOLED with aligned poly-Si thin-film transistors by laser annealing and chemical solution treatments," Physica B, 404, 4649 (2009)
 20. H. C. Lu, J. L. Lu, C. Y. Lai, **G. M. Wu**, "Fabrication of low-resistive p-type Al-N co-doped zinc oxide thin films by RF reactive magnetron sputtering," Physica B, 404, 4846 (2009)
 21. C. C. Yang, **G. M. Wu**, "Study of microporous PVA/PVC composite polymer membrane and its application to MnO₂ capacitors," Mater Chem Phys, 114, 948 (2009)
 22. T. W. Chang, T. J. Chung, T. Ru, T. E. Nee, H. C. Lu, **G. M. Wu**, "Investigation of InGaN/GaN multiple quantum wells with strain relief behavior for light-emitting diodes," IEEE NEMS Proceedings, 4, 485 (2009)
 23. **G. M. Wu**, Y. H. Lu, J. W. Teng, J. C. Wang, T. E. Nee, "Preparation and characterization of pentacene-based organic thin-film transistors with PVA passivation layers," Thin Solid Films, 517, 5318 (2009)
 24. **G. M. Wu**, Y. T. Shyng, S. F. Kung, C. F. Wu, "Oxygen plasma processing and improved interfacial adhesion in PBO fiber reinforced epoxy composites," Vacuum, 83, S271 (2009)

25. **G. M. Wu**, C. K. Yang, H. C. Lu, T. W. Chang, "Plasma enhanced germanium nitride dielectric thin films for phase change recording systems," *Vacuum*, 83, S33 (2009)
26. **G. M. Wu**, Z. J. Cai, J. C. Wang, T. E. Nee, "Design and simulation in GaN based light emitting diodes using focused ion beam generated photonic crystals," *Surf Coat Tech*, 203, 2674 (2009)
27. **G. M. Wu**, W. D. Hsiao, S. F. Kung, "Investigation of hydroxyapatite coated polyether ether ketone composites by gas plasma sprays," *Surf Coat Tech*, 203, 2755 (2009)