

Publication List

CHAO-YI FANG

A、期刊論文

1. "A study of subbands emissions in AlGaN/GaN high electron mobility transistor structure using low-temperature photoluminescence spectroscopy", C. Y. Fang, C. F. Lin, Edward Yi Chang and M. S. Feng, *Appl. Phys. Lett.*, **80**, 4558-4560, 2002.
2. "Study of Etching Damages on AlGaN, GaN and InGaN Caused by Hybrid Inductively Coupled Plasma Etch and Photoenhanced Chemical Wet Etch by Schottky Contact Characterizations", Chao-Yi FANG, Weng- Jung HUANG, Edward Yi CHANG, Chia-Feng LIN, and Ming-Shiann FENG, *Jpn. J. Appl. Phys.* **42**, 4207-4212, 2003
3. "The Characteristics of The TiWN_x and WN_x Schottky Diode on GaN", Cheng-Shih Lee, Edward-Yi Chang, Li Chang, Chao-Yi FANG, Yao-Lin Huang and Jian-Sheng Huang, *Jpn. J. Appl. Phys.* **42**, 4193-4196, 2003
4. "The WN_x T-Gate AlGaN/GaN HEMT for High Temperature Applications", Chao-Yi Fang, Edward Yi Chang, Cheng- Shih. Lee, Yao-Ling Huang, and Shang-Wen Chang, submitted to IEEE Electron . Dev. Lett.



B、研討會論文

1. "An AlGaN/GaN HEMT with WN_x T-gate for High temperature Applications", Y. L. Huang, C. Y. Fang, E. Y. Chang, C. S. Lee, S. H. Chen, H. M. Lee, Y. C. Lien, and C. T. Lee, Proceeding of International Symposia, State-of-the-Art Program on compound Semiconductors XXXVII, Salt Lake City, Volume 2002-14.
2. Study of WN_x/GaN and TiWN/GaN diodes for high temperature applications", Cheng-Shih Lee, Edward-Yi Chang, Li Chang, Chao-Yi Fang, Yao-Lin Huang and Jian-Sheng Huang, *European Microwave Week*, 2002.
3. "AlGaN/GaN HEMT sub-bands study using low temperature photoluminescence", C. Y. Fang, C. F. Lin, Edward Yi Chang and M. S. Feng, *Proceeding of Optics and Photonics Taiwan '01*, P.P. 9-11, 2001
4. "AlGaN Schottky Characteristics after Hybrid Photo-enhanced Wet and Inductively coupled Plasma Etch", W. J. Huang, C. Y. Fang, J. S. Wong, C. S. Lee, Edward Yi Chang, and M. S. Feng, *Proceeding of Optics and Photonics Taiwan '01*, P.P. 374-376, 2001
5. "AlGaN/GaN HEMT sub-bands study using Low-temperature Photoluminescence", C. Y. Fang, C. F. Lin, Edward Yi Chang and M. S. Feng, 2002nd Meeting of the Electrochemical Society, and the 52nd Meeting of the

International Society of Electrochemistry, State-of the-Art Program on Compound Semiconductors XXXV, San Francisco, September 2-7, 2001

6. “AlGaN Schottky Characteristics after Hybrid Photo-enhanced Wet and Inductively Coupled Plasma Etch”, *2002nd Meeting of the Electrochemical Society, and the 52nd Meeting of the International Society of Electrochemistry, State-of the-Art Program on Compound Semiconductors XXXV*
7. “Study of Sustained Blue Band Emission of Mg-doped GaN by Diffusion Method” , *Procedding of Optics and Photonics Taiwan ’ 99*, 1999.
8. “Low Temperature Reversible Photoluminescence Behavior of Mg-relaged Emission for Mg₃N₂ Diffused GaN’ , 1999 材料年會。

C、專利

1. “A Method to Fabricate Light Extraction Layer for High Brightness LED”美國專利申請中。
2. “氮化物發光元件與高功率氮化物發光元件”台灣專利，申請號 92129342。
3. “氮化物發光元件與高功率氮化物發光元件”日本專利，特願 2003-428067。
4. “氮化物發光元件與高功率氮化物發光元件”大陸專利，200310115032.80。

