List of Publications - Ray-Hua Horng
(total: 193 Journal Papers, 302 Conference Proceedings)

A - Journal Papers


104. S-H Huang, R-H Horng, S-L Li, K-W Yen, D-S Wuu, C-K Lin, H Liu,”Thermally Stable Mirror Structures


85. S-Y Lien, D-S Wuu, H-Y Mao, B-R Wu, Y-C Lin, I-C Hseih, R-H Horng “Fabrications of Si Thin-Film Solar


7. D-S Wuu, R-H Horng, “Improved epitaxial growth of Ga0.5In0.5P/GaAs on Si by low-pressure organometallic chemical vapor deposition”, *J. Appl. Phys.*, 62, pp. 3123-3126 (1989).

8. D-S Wuu, R-H Horng, “Improved epitaxial growth of Ga0.5In0.5P/GaAs on Si by low-pressure organometallic chemical vapor deposition”, *J. Appl. Phys.*, 54, pp. 2244-2246 (1989).


10. D-S Wuu, R-H Horng, K-C Huang, “Improved epitaxial growth of Ga0.5In0.5P/GaAs on Si by low-pressure organometallic chemical vapor deposition”, *J. Appl. Phys.*, 54, pp. 236-238 (1989).

11. R-H Horng, D-S Wuu, M-K Lee, “Improved epitaxial growth of Ga0.5In0.5P/GaAs on Si by low-pressure organometallic chemical vapor deposition”, *J. Appl. Phys.*, 54, pp. 236-238 (1989).

12. D-S Wuu, R-H Horng, K-C Huang, “Improved epitaxial growth of Ga0.5In0.5P/GaAs on Si by low-pressure organometallic chemical vapor deposition”, *J. Appl. Phys.*, 54, pp. 236-238 (1989).

13. R-H Horng, D-S Wuu, K-C Huang, “Improved epitaxial growth of Ga0.5In0.5P/GaAs on Si by low-pressure organometallic chemical vapor deposition”, *J. Appl. Phys.*, 53, pp. 2514-2616 (1988).

### B- Books and Book Chapters


### C- Conference proceedings


34. R-H Horng, D-S Wuu, S-L Ou, H-H Hsueh, “Study on GaN Epilayer Transferring to Cu Substrate from Sapph
Substrate Reused Applications


60. F-L Wu, R-H Horng, C-H Wu, M-D Yang, “Evaluation of crystalline quality of InGaAs solar cell with
68. J-S Hong, R-H Horng, R-C Lin, Y-C Chiang1, B-H Chuang, D-S Wuu, H-L Hu, C-P Hsu, "Promising Failure Modes and Effects Analysis for High-Power GaN-Based Light-Emitting Diodes Package Technology", 2010 Int. Conf. on Optics and Photonics in Taiwan (OPT 2010), Tainan, Taiwan, Dec.3-4, 2010.
69. S-P Liu, M-T Chu, R-H Horng, W-Y Liao, M-H Wu, T-B Wu, "Fabrication and Characterization of p-InGaN/i-InGaN-GaN Solar Cells", 2010 Int. Conf. on Optics and Photonics in Taiwan (OPT 2010), Tainan, Taiwan, Southern Taiwan University, Dec.3-4, 2010. (Paper ID: 1199).
72. S-P Liu, D-S Wuu, P-R Lin, Yu-Chuan Fu, R-H Horng "Low-Resistivity Al-doped ZnO Ultraviolet -Transparent Layers by Pulsed Laser Deposition", ibid., 2010.
75. C-Y Yen, R-H Horng, C-C Wu, D-S Wuu, "Investigation of Transferring the Thin Film GaN LED Epi-structure to Metal Substrates by Chemical Lift-off", ibid., (IEDMS 2010), Taiwan, Nov.18-19, 2010. (Abs no. 49).
78. D-S Wuu, S-P Liu, P-R Lin, Y-C Fu, R-H Horng, "Ultraviolet-Transparent Al-Doped ZnO Conducting Layers By Pulsed Laser Deposition", ICNNT 2010 3rd Int. Conf. on Nanoscience and Nanotechnology, Shiraz, Iran, Nov.9-11, 2010 (Abstract ID:1795)
85. R-H Horng, J-S Hong, Yu-Li Tsai, C-J Chen, C-M Chen, D-S Wuu, "Promising composite die-bonding materials
102. X. Zheng, R-H Horng, M-T Chu, M-H Wu, R-M Lin, Y-C Lu, “High-quality GaN/InGaN/GaN heterojunctions and their photovoltaic effects”, Int. Conf. on Optics and Photonics in Taiwan, Taipei, Taiwan, Dec 4-6, 2008.
103. C-B Lin, R-H Horng, Heng-I Lin, J-A Chen, D-S Wuu, “Design and Fabrication of High Power LED with and without Microstructure Cu Heat Sink”, Conf. on Optics and Photonics in Taiwan, Taiwan, Dec.4-6, 2008. (Best Student paper award)
105. S-T Lin, R-H Horng, M-T Chu, D-S Wuu, X Zheng, W-Y Liao, M-H Wu, R-M Lin, Yuan-Chieh Lu, “Fabrication of Thin Film GaN/InGaN Solar Cells”, Conf. on Optics and Photonics in Taiwan, Taiwan, Dec.4-6, 2008.
110. C-C Wu, D-S Wuu, P-R Lin, R-H Horng, “Catalyst-free growth and characterization of ZnO nanorods by metalorganic chemical vapor deposition”, Int. Union of Materials Research Societies-Int. Conf. in Asia (IUMRS-ICA) ,


125. R-H Horng, “Improvement of External Quantum Efficiency for AlGaNp-Based LED by Roughed Window Layer”, Taiwan-Russia bilateral nano and optoelectronic applications seminar, Taiwan University, Noc.21, 2007.


128. C-C Chung, D-S Wuu, R-H Horng, “Self-Aligned LEDs Thin-Film Package for Flexible Light Plate”, OPT2007, Taichung, Taiwan, Nov.30-Dec.12, 2007. (Best Student Award)

129. C-N Cheng, D-S Wuu, R-H Horng, “Discussion on performance of bulk heterojunction solar cells on glass and plastic substrates”, OPT2007, Taichung, Taiwan, Nov.30-Dec.12, 2007. (Best Student Award)

130. C-C Wu, D-S Wuu, R-H Horng, “Enhanced Light Output of GaN LEDs with Al-Doped ZnO Surface Textured Window Layers”, OPT2007, Taichung, Taiwan, Nov.30-Dec.12, 2007. (Best Student Award)

131. C-U Hsieng, R-H Horng, S-H Hung, K-W Yen, D-S Wuu, “High efficiency InGaN/GaN LEDs with double side textured surface and omni-directional mirror structures”, ibid. (Best Student Award)


185. R-H Horng, C-H Hsu, S-C Hsu, Yung-Lung Liang, Kuo-Shen Wen, D-S Wuu, “An application of GaN-based light emitting diode for flexible display by epilayer transformation technique”, The seventh China photoelectron Symposium, Taichung, Taiwan, Jan.10-11, 2005. (Best Paper Award)


190. W-K Wang, W-C Shih, S-H Lin, J-S Fang, R-H Horng, D-S Wuu, “ Optical and Microstructure Characteristics of...
Near-Ultraviolet InGaN-Based LEDs", 2004 OPT, Central University, Dec.18-19, 2004. (Best Paper Award)


239. D-S Wuu, W-T Lin, C-C Pan, R-H Horng, “Study of the epitaxial cubic GaN on GaAs (001) by low-pressure metalorganic chemical vapor deposition”, JUMRS-ICA2000, Hong Kong, July 23-26, 2000 (F2.2).


301. M-K Lee, R-H Horng, D-S Wuu, K. C. Huang, “Characterization of Ga\(_{0.5}\)In\(_{0.5}\)P/GaAs heterostructures on Si substrate by low-pressure organometallic vapor phase epitaxy”, Int. Conf. on VLSI and CAD, Seoul, Oct., 1989.