


Personal Information

Full name	Ray-Hua Horng	
Current position	Distinguished Prof.	
Organization	National Chiao Tung University	
Country	Taiwan, ROC	

Short Biography

Ray-Hua Horng received her B.S. degree in electrical engineering from Cheng Kung University of Taiwan in 1987 and Ph.D in electrical engineering from Sun Yat-Sen University of Taiwan in 1993. She has done work in the field III-V compound materials by MOCVD as an associate researcher at Telecommunication Labs/MOTC of ROC. Now, Prof. Horng is the distinguished professor of Department of Electrical Engineering at National Chiao Tung University. She has been the distinguished professor of Institute of Precision Engineering at National Chung-Hsing University. She had been the MOST optoelectronic division coordinator in Taiwan. She also received numerous awards recognizing her work on high-brightness LEDs. Her main interests are solid-state EL devices, III-V optoelectronic devices, high power devices, nano-surface treatment by natural lithography and GaN/ZnO nano-wire growth. In 2000, she vitalized her research on high-brightness LEDs with mirror substrate into practical mass products that enable high-power LEDs. She received numerous awards recognizing her work on high-brightness LEDs. She has been awarded by the Ministry of Education of Taiwan for Industry/University Corporation Project in 2002, by the National Science Council of Taiwan for the excellent technology transfer of high-power LEDs in 2006, 2008, 2009, 2010 and 2011, by Chi Mei Optoelectronics for the first prize of Chi Mei Award in 2008, by 2007 IEEE Region 10 Academia-Industry Partnership Award, by Outstanding Research Award of Ministry of Science and Technology in 2013. Prof. Horng also get Fellow of OSA in 2016, Fellow of IEEE in 2015, SPIE in 2014, Fellow of IET (Institute of Engineering and Technology) in 2013 and Fellow of AIE (Australian Institute of Energy) in 2012. Prof. Horng has authored or co-authored over 200 technical papers and holds over 100 patents in her fields of expertise.

Research Areas :

- Solid-state lighting devices, solar cells, flexible electronics, optoelectronics, power devices, Nitride and oxide semiconductor MOCVD growths