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October 1972 – June 1976	
Department of Electrical Engineering, National Taiwan University	BS
August 1979 – February 1981	
Department of Electrical Engineering, University of Illinois at	
Urbana-Champaign, USA	MS
February 1981 – August 1984	
Department of Electrical Engineering, University of Illinois at	
Urbana-Champaign, USA	Ph.D.
Major Experiences: August 1984 – June 1990	

Department of Electrical Engineering, The Pennsylvania State University, USA **Assistant Professor**

July 1990 - July 1993

Department of Electrical Engineering, The Pennsylvania State University, USA Associate Professor with Tenure

August 1993 –			
Institute of Photonics and Optoelectronics and	Department	t of Electric	cal
Engineering, National Taiwan University			Professor
August 2001 – July 2007			

Institute of Photonics and Optoelectronics, National Taiwan University Chairman

August 2013 -

Institute of Photonics and Optoelectronics, National Taiwan University **Distinguished Professor**

Research Scopes:

Nitride and oxide semiconductor MOCVD and MBE growths, light-emitting diode, nano-photonics and optoelectronics, surface plasmonics, and bio-photonics

Honors:

Fellow of Optical Society of America (2002); Fellow of SPIE (2011); Outstanding Research Award of National Science Coucil, Taiwan (2010)

Publications:

About 280 SCI journal papers and about 700 conference papers, including over 110 invited talks at international conferences.

Graduate Student These Supervisions:

38 Ph.D. these and over 100 MS these supervisions.

楊志忠著作目錄 (Publication List of C. C. Yang)

專書章節 (Book Chapters)

- 4. Chia-Ying Su, Chun-Han Lin, Yang Kuo, Yu-Feng Yao, Hao-Tsung Chen, Charng-Gan Tu, Chieh Hsieh, Horng-Shyang Chen, Yean-Woei Kiang, and <u>C. C. Yang</u>, "Surface Plasmon Coupled Light-Emitting Diodes," Chapter 7 in *Handbook of Solid-State Lighting and LEDs*, edited by Z. C. Feng, published by Taylor & Francis Books.
- Yang Kuo, Horng-Shyang Chen, Dong-Mong Yeh, Yu-Lung Jung, Chia-Phen Chen, Yean-Woei Kiang, and <u>C. C. Yang</u>, "Coupling of a Light Emitter with Surface Plasmon Induced on a Metal Nanostructure for Emission Enhancement," in *Handbook of Optical Microcavities*, edited by Anthony H. W. Choi, published by Pan Stanford (Singapore).
- Chi-Feng Huang, Dong-Ming Yeh, Horn-Shyang Chen, Chih-Feng Lu, Yung-Sheng Chen, Wen-Yu Shiao, Tsung-Yi Tang, Jeng-Jie Huang, Cheng-Yen Chen, Yen-Cheng Lu, and <u>C. C. Yang</u>, "Phosphor-free, All-semiconductor, White-light Light-emitting Diode," SPIE, edited by Ian Ferguson, 2008.
- Yung-Chen Cheng, Cheng-Yen Chen, and <u>C. C. Yang</u>, "Clustering Nanostructures and Optical Characteristics in InGaN/GaN Quantum-well Structures with Silicon Doping," in *III-Nitride Semiconductor Materials*, edited by Z. C. Feng, Imperial College Press, ISBN 1-86094-636-4, 2006.

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- 279. Yulu He, Jen-Hung Hsiao, Jian-He Yu, Po-Hao Tseng, Wei-Hsiang Hua, Meng-Chun Low, Yu-Hsuan Tsai, Cheng-Jin Cai, Cheng-Che Hsieh, Yean-Woei Kiang, <u>C. C. Yang</u>, and Zhenxi Zhang, "Cancer cell death pathways caused by photothermal and photodynamic effects through gold nanoring induced surface plasmon resonance," accepted for publication in Nanotechnology.
- 278. Chia-Ying Su, Wei-Han Chen, Yang Kuo, Chun-Han Lin, Ming-Yen Su, Meng-Che Tsai, Wen-Yen Chang, Chieh Hsieh, Charng-Gan Tu, Yu-Feng Yao, Hao-Tsung Chen, Yean-Woei Kiang, and C. C. Yang, "Enhancement of emission efficiency of deep-ultraviolet AlGaN quantum wells through surface plasmon coupling with an Al nano-grating structure," accepted for publication in Plasmonics. (SCI)
- 277. Hao-Tsung Chen, Chia-Ying Su, Charng-Gan Tu, Yu-Feng Yao, Chun-Han Lin, Yuh-Renn Wu, Yean-Woei Kiang, and <u>C. C. Yang</u>, "Combining high hole concentration in p-GaN and high mobility in u-GaN for high p-type conductivity in a p-GaN/u-GaN alternating-layer nanostructure," IEEE Transactions on Electron Devices, Vol. 64, No. 1, pp. 115-120, January 2017.
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- 272. Chia-Ying Su, Chun-Han Lin, Pei-Ying Shih, Chieh Hsieh, Yu-Feng Yao, Charng-Gan Tu, Hao-Tsung Chen, Horng-Shyang Chen, Yean-Woei Kiang, and <u>C. C. Yang</u>, "Coupling Behaviors of Surface Plasmon Polariton and Localized Surface Plasmon with an InGaN/GaN Quantum Well," Plasmonics, Vol. 11, No. 3, pp. 931-939, June 2016.
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- 253. Yang Kuo, Chun-Han Lin, Horng-Shyang Chen, Chieh Hsieh, Charng-Gan Tu, Pei-Ying Shih, Chung-Hui Chen, Che-Hao Liao, Chia-Ying Su, Yu-Feng Yao, Hao-Tsung Chen, Yean-Woei Kiang, and <u>C. C. Yang</u>, "Surface Plasmon Coupled Light-emitting Diode – Experimental and Numerical Studies," Japanese Journal of Applied Physics, Vol. 54, No. 2S, p. 02BD01, February 2015.
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- 247. Chun-Han Lin, Chia-Ying Su, Yang Kuo, Chung-Hui Chen, Yu-Feng Yao, Pei-Ying Shih, Horng-Shyang Chen, Chieh Hsieh, Yean-Woei Kiang, and <u>C. C. Yang</u>, "Further reduction of efficiency droop effect by adding a lower-index dielectric interlayer in a surface plasmon coupled blue light-emitting diode with surface metal nanoparticles," Applied Physics Letters, Vol. 105, No. 10, p. 101106, 8 September 2014.
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- 243. Chih-Yen Chen, Wen-Ming Chang, Wei-Lun Chung, Chieh Hsieh, Che-Hao Liao, Shao-Ying Ting, Kuan-Yu Chen, Yean-Woei Kiang, <u>C. C. Yang</u>, Wei-Siang Su, and Yung-Chen Cheng, "Crack-free GaN deposition on Si substrate with temperature-graded AIN buffer growth and the emission characteristics of overgrown InGaN/GaN quantum wells," Journal of Crystal Growth, Vol. 396, pp. 1-6, 15 June 2014.
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