

陳永光 (Yung-Kuang Chen; Y.K. Chen) — 永生全能上帝所呼召的僕人!

他人生上半場的磨練、祝福與預備，是為了上帝所命定的人生下半場的使命！

I. 學經歷 (Education and employment experience):

1. 國立中央大學光電科學研究所碩士畢業(1985. 9 - 1987.6)
2. 中華工專電子工程科專任講師 (1987. 8 - 1988. 6)
3. 交通部電信研究所助理研究員 (1988. 7 - 1992. 6)
4. 交通部電信研究所副研究員 (1992. 7 - 1995.8)
5. 國立交通大學光電研究所博士班學生 (1992. 9 - 1995. 2)
6. 國立交通大學光電工程研究所光電博士畢業 (1995. 3)  
Ph.D., Institute of Electro-Optical Engineering,  
National Chiao-Tung University, Taiwan, 1995.
7. 國立中山大學光電工程研究所 副教授 (1995. 8 – 2000. 2)
8. 國立中山大學光電工程研究所 教授 (2000. 2 – 2003. 7)
9. 國立中山大學光電工程研究所 教授兼所長 (2002. 2 – 2003. 4)

II. 專長 (Specialties):

1. 光纖通訊技術 (Fiber-optic Communication Technologies),
2. 光纖網路監測技術(Supervisory Technology of Fiber-Optic Networks)
3. 光纖有線電視系統與視訊傳輸技術(Lightwave CATV System and Video Transmission Technologies)
4. 光放大器與應用 (Optical Amplifiers and Their Applications),
5. 高密度分波多工光纖網路 (DWDM Optical Networks)

III. 學術榮譽 (Academic honors):

1. 第一屆中華民國光學工程學會田家炳青年學術獎得主(1993)。
2. 中華民國斐陶斐榮譽學會榮譽會員(1995)。
3. 國科會甲種研究獎助(1996, 1997, 1998, 1999, 2000)。
4. 研究論文為多本光纖通信專業書籍所引用，譬如分佈反射式無損失高速星狀區域網路架構的文章和所有圖形被 E. Desurvire 的 ERBIUM-DOPED FIBER AMPLIFIERS - Principles and Applications 所引用 (John Wiley & Sons, Inc., 1994, Chap. 7, pp. 578-580)。

VI. 研究計畫績效

1. 主持的研究計畫(1995.08-2003.07) (8年共17項, 經費累計NTD 1,290萬元)
2. 主持的通信課程改進計畫(1995.08-2000.02) (5年共4項, 經費累計NTD 394萬元)
3. 研究結果常被著名國際光纖通信會議論文接受  
OFC (Optical Fiber Communications conference)會議是全世界最重要、最具代表性的光纖通信會議，regular papers投稿錄取率約40%左右；每年二月在美國舉行約有10,000人以上參加，也是國科會光電學門指定的出國補助重點會議(OFC, CLEO,..)之一。  
(1) 1998年2月至OFC發表三篇論文，此次我國共有5篇論文，是歷年來最多papers被接受的一次。而筆者此次有2篇oral口頭報告論文及一篇poster展示論文。  
(2) 1999年2月至OFC發表二篇論文，此次我國僅有3篇論文。而筆者有2篇oral口頭報告論文。  
(3) 1998年9月在歐洲ECOC (European Conference on Optical Communications是歐洲最重要的光纖通信會議)國際會議發表三篇口頭報告論文。  
(4) 1997年11月在美國LEOS (Laser and Electro-Optical Society)國際會議發表三篇口頭報告論文。

V. 教學成果

1. 任教學分數：在光電所(獨立所)4.5學年合計開課47學分(新增設4門3學分的課程)
2. 教育部通信課程改進計畫：5年共4個計畫，經費累計：NT\$3,935,000

- 3.編纂2本新實驗教材；修訂2本舊教材
  - ①混合光纖同軸系統實驗(1997.06完成，共84頁；1998.05獲頒教育部佳作獎)
  - ②光纖網路實驗(1998.06完成，共52頁；1999.05獲頒教育部佳作獎)
  - ③光纖通信實驗(1999.06完成，共60頁；修訂版, 2000.02獲頒教育部特優獎)
  - ④光纖網路實驗(1999.06完成，共74頁；第二版修訂)
- 4.獲教育部通信課程編寫實驗教材 佳作獎2次(85年度, 86年度)、特優獎1次(87年度)
- 5.指導(含共同指導/合作)碩博士論文，共25位畢業；其中指導的博士生張嘉雄發表之論文”Demonstration of Repeaterless Bi-Directional Transmission of AM-VSB CATV Signals over 50 km Conventional Single-Mode Fiber”榮獲1999臺灣光電科技研討會之優良學生論文獎。

## VI.服務績效

- 1.擔任光電所二次暑假期間開課訓練新生(86年度, 87年度)。
- 2.擔任工學院院務會議委員(88年度)。
- 3.擔任工學院司選委員會委員(86年度)、工學院課程委員會委員(86年度)。
- 4.擔任校務會議代表(85年度)、工學院司選委員會委員(85年度)。
- 5.擔任碩士班研究生導師(85年度)、光電所碩士班入學命題(85, 86, 87, 88年度)。
- 6.支援理學院所舉辦的高雄市國中資優生科學營(86.01.30)擔任講員。
- 7.主持推廣教育『有線電視系統工程』進修班、研究班共2期,168位學員結業。
- 8.擔任中華民國勞委會『光電類乙級、丙級技術士技能檢定』方案審查委員。(86年)
- 9.擔任中華民國智慧財產局『有線電視視訊光發收信機』國家標準制定審查委員(87年)
- 10.擔任工研院光電所顧問: 近2年。
- 11.擔任國內外期刊論文(**IEEE Photonics Technology Letters; Journal of Lightwave Technology**等)、專利、科專計畫審查者: 10餘次。
- 12.擔任1999年光電科技研討會光纖與波導光學議程委員、及議程主持人。
- 13.擔任1997年英國Optical and Quantum Electronics臺灣光電研究特刊議程委員
- 14.擔任遠東廣播公司『世界真奇妙』電台節目介紹光電科技新知單元4次: a. 光的奧妙 (*Miracle of Light!*), b. 雷射的發明和應用 (*Invention of LASER and its Applications*), c. 光纖通信 (*Optical Fiber Communications*), d. 光碟片和光儲存 (*Optical compact disc and optical storage*)。(87年)

## VII. 歷年研究論文學術成果：

### (A) 期刊論文(SCI 級; Science Cite Index)

1. S. C. Tsai, Y. K. Tu, **Y. K. Chen**, “Countermeasures of SRS-induced baseband video distortion in 1.65  $\mu\text{m}$  OTDR online monitoring 1.55 $\mu\text{m}$  AM-VSB CATV system,” *Japanese Journal of Applied Physics*, vol. 24, no. 7A, 2003. (2001 SCI Impact factor = 1.249).
2. S. C. Tsai, T. C. Tsai, P. C. Law, and **Y. K. Chen**, “High Pumping-efficiency L-band erbium-doped fiber ASE source using double-pass bi-directional pumping configuration,” *IEEE Photonics Technology Letters*, vol. 15, no. 2, pp. 197-199, Feb. 2003. (2001 SCI Impact factor = 2.004)
3. S. C. Tsai, T. C. Tsai, P. C. Law, and **Y. K. Chen**, “High-power flat L-band erbium-doped fiber ASE source using dual forward-pumping scheme,” *Optical and Quantum Electronics*, vol. 35, no.2, pp. 161-167, Jan. 2003. (2001 SCI Impact factor = 0.706)
4. S. C. Tsai, C. M. Lee, S. Hsu, and **Y. K. Chen**, “Characteristic comparison of single-pumped L-band erbium-doped fiber amplified spontaneous emission sources,” *Optical and Quantum Electronics*, vol. 34, no. 11, pp. 1111-1117, Nov. 2002. (2001 SCI Impact factor = 0.706)
5. S. Hsu, T. C. Liang, and **Y. K. Chen**, “Optimum configuration and design of L-band erbium-doped superfluorescent fiber source,” *Japanese Journal of Applied Physics*, vol. 41, part 1, no. 6A, pp. 3724-3729, June 2002. (2001 SCI Impact factor = 1.249).
6. S. C. Tsai, M. H. Huang, and **Y. K. Chen**, “Stimulated Raman scattering induced baseband video distortion due to 1.65  $\mu\text{m}$  OTDR on-line monitoring in 1.55  $\mu\text{m}$  AM-VSB CATV System,” *IEEE Photonics Technology Letters*, vol. 14, no. 7, pp. 1016-1018, July 2002. (2001 SCI Impact factor = 2.004)

7. S. Hsu, L. H. Su, and **Y. K. Chen**, "Optically gain-clamped wideband erbium-doped fiber amplifier using a common figure-eight feedback-loop lasing light," *Optics Communications*, vol. 205, pp. 293-298, May 2002. (2000 SCI Impact factor = 1.185).
8. I. Y. Kuo and **Y. K. Chen**, "In-service OTDR-monitoring-supported fiber-Bragg-grating-based optical add-drop multiplexers," *IEEE Photonics Technology Letters*, vol. 14, no. 6, pp. 867-869, June 2002. (2001 SCI Impact factor = 2.004)
9. C. C. Lee, **Y. K. Chen**, C. H. Chang, K. M. Feng, S. L. Tzeng, and S. Chi, "Hybrid 10-Gb/s, 2.5-Gb/s, 64-QAM, and AM-VSB high-capacity wavelength-division-multiplexing transport systems using SMF and LEAF fibers," *IEEE Photonics Technology Letters*, vol. 14, no. 2, pp. 230-232, Feb. 2002. (2001 SCI Impact factor = 2.004)
10. I. Y. Kuo, C. H. Chang, and **Y. K. Chen**, "In-service OTDR supervisory DWDM system directly through Mach-Zehnder fiber-grating optical add-drop multiplexers," *IEEE Photonics Technology Letters*, vol. 13, no. 11, pp. 1242-1244, Nov. 2001. (2001 SCI Impact factor = 2.004)
11. S. Hsu, T. C. Liang, and **Y. K. Chen**, "Optimal design of optically gain-clamped L-band erbium-doped fiber amplifier," *Optics Communications*, vol. 196, pp. 149-157, Sept. 2001. (2000 SCI Impact factor = 1.185).
12. **Y. K. Chen**, T. C. Liang, J. H. Su, and S. L. Tzeng, "Maximum-channel-number investigation of limiting-amplified multiwavelength dispersion compensator incorporating with chirped fiber gratings," *Japanese Journal of Applied Physics*, vol. 39, part 1, no. 12A, pp. 6565-6569, Dec. 2000. (2000 SCI Impact factor = 1.157)
13. T. C. Liang, **Y. K. Chen**, J. H. Su, W. H. Tzeng, C. Hu, Y. T. Lin, and Y. C. Lai, "Optimum configuration and design of 1480-nm pumped L-band gain-flattened EDFA using conventional erbium-doped fiber," *Optics Communications*, vol. 183, pp. 51-63, Sept. 2000. (2000 SCI Impact factor = 1.185).
14. T. C. Liang, S. Hsu, and **Y. K. Chen**, "Optical channel upgradability of multiwavelength EDFA for hybrid digital/analog dense wavelength division multiplexing systems," *Optics Communications*, vol. 184, pp. 141-149, Oct. 2000. (2000 SCI Impact factor = 1.185)
15. **Y. K. Chen**, C. J. Hu, C. C. Lee, K. M. Feng, M. K. Lu, C. H. Chang, Y. K. Tu, and S. L. Tzeng, "Low-crosstalk and compact optical add-drop multiplexer using a multiport circulator and fiber Bragg gratings" *IEEE Photonics Technology Letters*, vol. 12, no. 10, pp. 1394-1396, Oct. 2000. (2000 SCI Impact factor = 1.877)
16. C. H. Chang and **Y. K. Chen**, "Demonstration of repeaterless bi-directional transmission of multiple AM-VSB CATV signals over conventional single-mode fiber," *IEEE Photonics Technology Letters*, vol. 12, no. 6, pp. 734-736, June 2000. (2000 SCI Impact factor = 1.877)
17. T. C. Liang, C. H. Chang, and **Y. K. Chen**, "Optimum configuration and characteristic comparisons of erbium-doped fiber amplifier for hybrid digital/analog WDM systems," *Optics Communications*, vol. 177, pp. 259-269, April 2000. (1999 SCI Impact factor = 1.352)
18. C. H. Chang, and **Y. K. Chen**, "Experimental demonstration of bi-directional lightwave CATV 100-km transmission system using SMF and LEAF links," *Electronics Letters*, vol. 36, no. 3, pp. 243-244, February 2000. (1999 SCI Impact factor = 1.164)
19. **Y. K. Chen**, C. H. Chang, Y. L. Yang, I. Y. Kuo, and T. C. Liang, "Mach-Zehnder-fiber-grating-based fixed and reconfigurable multichannel optical add-drop multiplexers for DWDM networks," *Optics Communications*, vol. 169, pp. 245-262, Oct. 1999. (1999 SCI Impact factor = 1.352)
20. S. L. Tzeng, H. C. Chang, and **Y. K. Chen**, "Limiting-amplified multiwavelength dispersion compensator incorporating with chirped fiber gratings and optical amplifier for DWDM systems," *Optics Communications*, vol. 169, pp. 81-86, Oct. 1999. (1999 SCI Impact factor = 1.352)
21. **Y. K. Chen**, T. C. Liang, and C. H. Chang, "Optimum configuration for high-power low-noise-figure erbium-doped fiber amplifiers for lightwave CATV applications," *Optics Communications*, vol. 168, pp. 467-479, Sept. 1999. (1999 SCI Impact factor = 1.352)
22. S. K. Liaw, K. P. Ho, **Y. K. Chen**, and C. C. Lee, "Reconfigurable WDM add/drop multiplexer based on optical switches and fiber Bragg gratings," *Optical and Quantum Electronics*, vol. 31, pp. 77-83, 1999. (1999 SCI Impact factor = 0.876).

23. S. L. Tzeng, H. C. Chang, and **Y. K. Chen**, "Chirped-fibre-grating-based optical limiting amplifier for simultaneous dispersion compensation and limiting amplification in 10 Gbit/s G.652 fibre link," *Electronics Letters*, vol. 35, no. 8, pp. 658-660, April 1999. (1999 SCI Impact factor = 1.164)
24. T. C. Liang, Y. S. Lin, and **Y. K. Chen**, "Comparison of the characteristic of double-pass erbium-doped superfluorescent fiber sources obtained from different flattening techniques," *Applied Optics*, vol. 38, no. 3, pp. 522-529, January 1999. (1999 SCI Impact factor = 1.616)
25. **Y. K. Chen**, C. H. Chang, and C. C. Lee, "Simultaneous transmission of 1.55- $\mu\text{m}$  CATV video signal and 1.3- $\mu\text{m}$  data signal over a multi-mode-fiber local area network," *IEEE Photonics Technology Letters*, vol. 10, no. 12, pp. 1790-1792, December 1998. (1998 SCI Impact factor = 1.791)
26. **Y. K. Chen** and C. C. Lee, "Fiber-Bragg-grating-based large nonblocking multiwavelength cross-connects," *Journal of Lightwave Technology*, vol. 16, no. 10, pp. 1746-1756, October 1998. (1998 SCI Impact factor = 1.498)
27. **Y. K. Chen**, P. C. Law, and S. C. Huang, "Experimental investigation of optically amplified time-division-multiplexed polarization-insensitive fiber-optic Michelson interferometric sensor system," *Applied Optics*, vol. 37, no. 28, pp. 6615-6622, Oct. 1998. (1998 SCI Impact factor = 1.138)
28. S. L. Tzeng, C. H. Chang, and **Y. K. Chen**, "Locally-pumped repeatered and remotely-pumped repeaterless 1.55- $\mu\text{m}$  CATV video lightwave systems over a 127-km standard single-mode fiber," *Electron. Lett.*, vol. 34, no. 13, pp. 1339 - 1341, June 1998. (1998 SCI Impact factor = 1.152)
29. C. C. Lee, **Y. K. Chen**, and S. K. Liaw, "Single-longitudinal-mode fiber laser with passive multiple-ring-cavity and its application for video transmission," *Optics Letters*, vol. 23, no. 5, pp. 358-360, March 1998. (1998 SCI Impact factor = 2.952)
30. **Y. K. Chen**, S. K. Liaw, and C. C. Lee, "Dynamically selective multiwavelength cross-connect based on fiber Bragg gratings and optical switches," *Optical and Quantum Electronics*, vol. 30, pp. 121-127, March 1998. (1998 SCI Impact factor = 0.886)
31. C. C. Lee, **Y. K. Chen**, and S. K. Liaw, "Tunable and selective wavelength converter using degenerate fiber four-wave mixing with pump wavelength and polarization controls," *Electron. Lett.*, vol. 34, no. 2, pp. 205 - 206, January 1998. (1998 SCI Impact factor = 1.152)
32. C. C. Lee, **Y. K. Chen**, and S. K. Liaw, "Non-destructive distributed mode-field diameter measurement of single-mode fiber links using optical time-domain reflectometer incorporated with a microbender," *Electron. Lett.*, vol. 34, no. 1, pp. 106 - 107, January 1998. (1998 SCI Impact factor = 1.152)
33. **Y. K. Chen**, Y. L. Liu, and C. C. Lee, "Directly modulated 1.55- $\mu\text{m}$  AM-VSB video EDFA-repeatered supertrunking system over a 110 km standard single-mode fiber using split-band and wavelength-division-multiplexing techniques," *Electron. Lett.*, vol. 33, no. 16, pp. 1400- 1401, July 1997. (1997 SCI Impact factor = 1.005)
34. **Y. K. Chen**, S. K. Liaw, and S. Chi, "Investigation of multiwavelength optical power limiting amplifier and its applications in high-speed SONET wavelength-division multiplexing self-healing ring network," **Invited paper** (non-SCI), *International Journal of High Speed Electronics and Systems*, vol. 8, no. 4, pp. 767-777, 1997. Also published in *Selected Topics in Electronics and Systems-Vol. 12: Current Research on Optical Materials, Devices, and Systems in Taiwan*, edited by S. Chi and T. P. Lee, World Scientific Publishing Co. (Singapore, New Jersey, London, Hong Kong), 1998.
35. **Y. K. Chen**, and S. K. Liaw, "Optimum gain-equalised configuration of wideband erbium-doped fibre amplifier using inter-stage samarium-doped fibre and midway isolator," *Electron. Lett.*, vol. 32, no. 23, pp. 2175 - 2177, Nov. 1996. (1996 SCI Impact factor = 1.141)
36. S. K. Liaw, and **Y. K. Chen**, "Passive gain-equalized wideband erbium-doped fiber amplifier using samarium-doped fiber," *IEEE Photon. Technol. Lett.*, vol. 8, no. 7, pp. 879-881, 1996. (1996 SCI Impact factor = 1.063)
37. **Y. K. Chen**, S. K. Liaw, W. Y. Guo, and S. Chi, "Multiwavelength erbium-doped power limiting amplifier in all-optical self-healing ring network," *IEEE Photon. Technol. Lett.*, vol. 8, no. 6, pp. 842-844, July 1996. (1996 SCI Impact factor = 1.063)
38. **Y. K. Chen**, W. Y. Guo, S. Chi, and W. I. Way, "Demonstration of in-service supervisory repeaterless bi-directional wavelength-division-multiplexing transmission system," *IEEE Photon. Technol. Lett.*, vol. 7, no. 9, pp. 1084 -1086,

Sept. 1995. (1995 SCI Impact factor = 0.977)

39. **Y. K. Chen**, W. Y. Guo, W. I. Way, and S. Chi, "In-service supervisory EDFA-repeated wavelength division multiplexing transmission system," *IEEE Photon. Technol. Lett.*, vol. 7, no. 8, pp.923 - 925, Aug. 1995. (1995 SCI Impact factor = 0.977)
40. J. Y. Zeng, W. Y. Guo, and **Y. K. Chen**, "Lossless wideband reflective star coupler using erbium-doped fiber amplifiers," *IEEE Photon. Technol. Lett.*, vol. 6, no. 12, pp. 1485 - 1487, Dec. 1994. (1994 SCI Impact factor = 1.244)
41. **Y. K. Chen**, W. Y. Guo, W. I. Way, and S. Chi, "Simultaneous in-service fault-locating and EDFA-monitoring supervisory transmission in EDFA-repeated system," *Electron. Lett.*, vol. 30, no. 25, pp. 2145 - 2146, Dec. 1994. (1994 SCI Impact factor = 1.159)
42. W. I. Way, Y. W. Lai, and **Y. K. Chen**, "The effect of transient gain compression in a saturated EDFA on optical time domain reflectometry testing," *IEEE Photon. Technol. Lett.*, vol. 6, no. 10, pp. 1200 - 1202, Oct. 1994. (1994 SCI Impact factor = 1.244)
43. **Y. K. Chen**, and W. I. Way, "Multiwavelength line-rate-independent digital cross-connects based on low-gain fiber amplifiers," *IEEE Photon. Technol. Lett.*, vol. 6, no. 9, pp. 1122 - 1125, Sept. 1994. (1994 SCI Impact factor = 1.244)
44. **Y. K. Chen** and S. Chi, "Fault-locating and supervisory technique for multistaged branched optical networks," *IEEE Photon. Technol. Lett.*, vol. 6, no. 7, pp. 876 - 879, July 1994. (1994 SCI Impact factor = 1.244)
45. Y. W. Lai, **Y. K. Chen**, and W. I. Way, "Novel supervisory technique using wavelength-division-multiplexed OTDR in EDFA repeated transmission system," *IEEE Photon. Technol. Lett.*, vol. 6, no. 3, pp. 446 - 449, Mar. 1994. (1994 SCI Impact factor = 1.244)
46. W. Y. Guo, **Y. K. Chen**, J. Y. Zeng, and S. Chi, "Wideband star coupler module with gain," *Electron. Lett.*, vol. 29, no. 20, pp. 1783 - 1784, Feb. 1993. (1993 SCI Impact factor = 1.146)
47. **Y. K. Chen**, and S. Chi, "WDM / FDM star coupler with gain using fiber amplifiers," *Electron. Lett.*, vol. 29, no. 9, pp. 731 - 732, April 1993. (1993 SCI Impact factor = 1.095)
48. W. Y. Guo, and **Y. K. Chen**, "High-speed bidirectional four channel optical FDM - NCFSK transmission using an erbium-doped fiber amplifier," *IEEE Photon. Technol. Lett.*, vol. 5, no. 2, pp. 232 - 235, April 1993. (1993 SCI Impact factor = 1.738)
49. **Y. K. Chen**, S. Chi, and J. W. Liaw, "Hybrid transmissive optical star couplers with gain using fiber amplifiers," *IEEE Photon. Technol. Lett.*, vol. 5, no. 2, pp. 230 - 232, Feb. 1993. (1993 SCI Impact factor = 1.738)
50. **Y. K. Chen**, "Amplified distributed reflective optical star couplers," *IEEE Photon. Technol. Lett.*, vol. 4, no. 6, pp. 570 - 573, June 1992. (1992 SCI Impact factor = 1.738)
51. W. Y. Guo, and **Y. K. Chen**, "Analysis and experimental study of 565 Mb/s ASK optical heterodyne system," *Fiber and Integrated Optics*, vol. 10, pp. 309 - 321, 1992.
52. J. W. Liaw, and **Y. K. Chen**, "Novel configuration of transmissive active star coupler using minimum erbium-doped fiber and pump lasers," *Microwave and Optical Technol. Lett.*, vol. 5, no. 3, pp. 118 - 123, 1992.
53. J. W. Liaw, and **Y. K. Chen**, "Highly efficient configuration of reflective fiber-optic active star couplers," *Fiber and Integrated Optics*, vol. 10, pp. 257 - 263, 1991.

#### (B) 研討會論文

1. I. Y. Kuo, and **Y. K. Chen**, "In-Service OTDR Supervisory DWDM System Directly Through Mach-Zehnder Fiber-Grating Optical Add-Drop Multiplexers," *Optics and Photonics Taiwan.*, Paper, FC3-6, Dec. 2001.
2. I. Y. Kuo, and **Y. K. Chen**, "Fiber-Bragg-Grating Optical Add-Drop Multiplexers for In-Service OTDR Monitoring," *Optics and Photonics Taiwan.*, Paper, FC3-6, Dec. 2001.
3. C. C. Lee, T. C. Kao, S. L. Tzeng, Y. K. Chen, and S. Chi, "Optical Label Swapping for IP-WDM Networks Using Self-Seeded Fabry-Perot Laser Label and Fiber Bragg Gratings," *Technical Digest of Optical Fiber Communication conference (OFC'01)*, paper TuP4, Anaheim, CA, March 2001.

4. W. Y. Cheng, H.Y. Chang, Y. R. Lin, J. T. Shy, T. Lin, Y. K. Chen, M. H. Chou, M. M. Fejer, "Iodine-stabilized 1550 nm diode laser for optical fiber communication," *2000 Conference on Precision Electromagnetic Measurements Digest*, pp. 473-474, 2000.
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VIII.專利 「類別」請填入代碼：(A)發明專利(B)新型專利。

類別	專利名稱	國別	專利號碼	發明人	專利權人	專利期間
B	穿透式主動星狀光耦合器	中華民國	75886	廖枝旺 陳永光	交通部電信研究所	1992/09/11 2002/09/11
B	全測距光時域反射測量儀	中華民國	099303	陳永光	交通部電信研究所	1995/04/15 2006/05/05
A	光纖用戶迴路網路混合型的監控技術	中華民國	075552	陳永光 鄭木海	交通部電信研究所	1996/01/01 2014/05/26
A	使用摻釔光纖作增益等化之摻鉺光纖放大器及技術	中華民國	088304	廖顯奎 陳永光 江衍旭 廖枝旺 涂元光	中華電信研究所	1997/06/11 2016/06/27
A	固定放大訊號輸出功率之色散補償架構	中華民國	申請中	曾松齡 陳永光 官啟震 廖枝旺	中華電信研究所	



