柯正浩 (Ko, Cheng-Hao) 論文著述表

2008.12

A. 期刊論文

2006~2008 年【共 13 篇：SCI：10，國外其他：1，國內；2】

1. **Cheng- Hao Ko**, Chang-Tai Chen, Ming-Der Yang, Che-Hao Hu, Yu-Kai Liu, Jyh-Shyang Wang, Ji- Lin Shen, Tsun-Neng Yang, San- Ming Lan, and Jian-Shian Lin,
   "*Optical Characterization of $CuInSe_2$ Thin Films Grown by Metal Organic Chemical Vapor Deposition,*"
   Jpn. J. Appl. Phys., Vol. 47, No. 9, pp. 7044-7046, September 12, 2008
   SCI Impact Factor = 1.096
   SCI Rank Factor: PHYSICS APPLIED = 41/83 (49.4%)

2. 許博淵、**柯正浩**
   "LIGA 凹面光柵分光晶片"
   微機電感測器的現況與趨勢　專輯：微機電系統與感測
   電子月刊, 第十四卷第一期, Vol. 150, pp.149~157, 2008/01

3. M.D. Yang, Y.P. Chen, G.W. Shu, J.L. Shen , S.C. Hung, G.C. Chi, T.Y. Lin, Y.C. Lee, C.T. Chen and **C.H. Ko**
   "*Hot carrier photoluminescence in InN epilayers,*"
   Applied Physics A: Materials Science & Processing, Vol.90 , No.1 pp.123~127, Published online: 11 September 2007, January 2008
   SCI Impact Factor = 1.857
   SCI Rank Factor:
   MATERIALS SCIENCE, MULTIDISCIPLINARY = 43/189 (22.8%)

4. **Cheng-Hao Ko**, Wei-Chih Liu, Nien-Po Chen, Ji-Lin Shen, and Jian-Shian Lin,
   "*Double reflection in the concave reflective blazed grating,*"
   Optics Express, Vol. 15, No. 17, pp. 10498~10503, 20 August 2007
   SCI Impact Factor = 3.709
   SCI Rank Factor: OPTIC = 2/64 (3.1%)

NSC 95-2221-E-155-060, NSC-94-2215-E-155-002

5. **Cheng-Hao Ko** and Bor-Yuan Shew
"*An optical chip that spatially separates wavelengths*,"
SPIE Newsroom: Industrial Sensing & Measurement, June 2007
http://spie.org/x14688.xml?highlight=x2406
NSC 95-2221-E-155-060, NSC-94-2215-E-155-002

6. **Cheng-Hao Ko**, Bor-Yuan Shew and Shih-Che Hsu
"*Micro-grating fabricated by deep x-ray lithography for optical communications*,"
Opt. Eng. Vol. 46, pp. 048001-1~048001-7, Apr. 9, 2007
SCI Impact Factor = 0.757
SCI Rank Factor: OPTIC = 35/64 (54.7%)
NSC 95-2221-E-155-060, NSC-94-2215-E-155-002

7. Chung Ping Liu, Kuei Jen Lee, **Cheng-Hao Ko** and Bi-Zen Dong
"*Characteristics of optical multiple channelled filters made of aperiodically patterened phase elements*,"
Optics and Laser Technology, Vol. 39, pp. 415-420, March, 2007
SCI Impact Factor = 0.872
SCI Rank Factor: OPTIC = 30/64 (46.9%)
PHYSICS, APPLIED = 64/84 (76.2%)

8. G W Shu, C K Wang, J S Wang, J L Shen, R S Hsiao, W C Chou, J F Chen, T Y Lin, **C H Ko** and C M Lai
"*The photoluminescence decay time of self-assembled InAs quantum dots covered by InGaAs layers*,"
Nanotechnology, Vol. 17, pp. 5722-5725, Nov. 10, 2006
SCI Impact Factor = 3.310
SCI Rank Factor: ENGINEERING, MULTIDISCIPLINARY = 2/66 (3.0%)
PHYSICS, APPLIED = 9/84 (10.7%)
MATERIALS SCIENCE, MULTIDISCIPLINARY = 22/189 (11.6%)
NANOSCIENCE & NANOTECHNOLOGY: 5/32 (15.6%)

9. **Cheng-Hao Ko** and Kuei-Jen Lee
"*A polarizer chip based on CMOS Cu-interconnect for optical telecommunications*,"

Optics Express, Vol. 14, No. 12, pp. 5250-5259, 2006/06
http://www.opticsexpress.org/abstract.cfm?id=90283
SCI Impact Factor = 3.709
SCI Rank Factor: OPTIC = 2/64 (3.1%)

10. Gung-Chian Yin, Fu-Rong Chen, Mau. T. Tang, Yen-Fang. Song, K. S. Liang, Frederick W. Duewer, Wenbing Yun, **Cheng-Hao Ko** and Han-Ping D. Shieh
"*An energy-tunable transmission x-ray microscope for differential contrast imaging with 60-nm resolution in 3D*,"
Appl. Phys. Letts., Vol. 88, Issue 24, pp. 241115, 2006/06
SCI Impact Factor = 4.127
SCI Rank Factor: PHYSICS APPLIED = 4/83 (4.8%)
http://scitation.aip.org/getabs/servlet/GetabsServlet?prog=normal&id=APPLAB000088000024241115000001&idtype=cvips&gifs=yes

11. **Cheng-Hao Ko** and Kuei-Jen Lee
"*A polarization beam splitter for optical telecommunications based on 2D metallic photonic crystal structures*,"
Jpn. J. Appl. Phys., Vol. 45, No. 6A, pp. 5039-5045, 2006/06.
SCI Impact Factor = 1.096
SCI Rank Factor: PHYSICS APPLIED = 41/83 (49.4%)

12. Chien-Hung Yeh, Ming-Ching Lin, Ting-Tsan Huang, Kuei-Chu Hsu, **Cheng-Hao Ko**, and Sien Chi
"*S-band gain-clamped grating-based Erbium-doped fiber amplifier by forward optical feedback technique*,"
Optics Express, Vol. 14, No. 7, pp. 2611-2617, 2006/04.
http://www.opticsexpress.org/abstract.cfm?id=88976
SCI Impact Factor = 3.709
SCI Rank Factor: OPTIC = 2/64 (3.1%)

13. **C.-H. Ko**, J.-H. Zhen, K.-L. Lee and M.-J. Hong
"探討光通訊波段中奈米銅導線製程之二維金屬光子晶體極化分波器,"
物理雙月刊, 28 卷 1 期, pp. 74, 2006/02.

2005 年 【共 8 篇：SCI：2，EI：1，國內：4】

14. Bor-Yuan Shew, Han-Chieh Li, Ci-Ling Pan and **Cheng-Hao Ko**
"*X-ray Micromachining SU-8 resist for a terahertz photonic filter*,"
J. Phys. D: Appl. Phys. Vol. 38, pp. 1097-1103 (2005/03).
SCI Impact Factor = 1.957
SCI Rank Factor: PHYSICS APPLIED = 21/83 (25.3%)

15. Shi-Hung Hoang, Gor-Don Horng, Chen-Yu Chiang, **Cheng-Hao Ko**, Yi-Chung Lo, Ching-Iue Chen and Chao-Kang Chang
"*A Novel measurement device for SAW chemical sensors with FT-IR spectro-microscopic analytical capabilities*,"
Tamkang Journal of Science and Engineering, Vol. 8, No. 1, pp. 63-66, March 2005
EI

16. **C.-H. Ko** , B.-Y. Shew, C.-C. Lui, and C.-K. Lo
"*An x-ray-LIGA-fabricated spectrometer chip for optical telecommunications*",
物理雙月刊, 27 卷 1 期, p. 94, (2005/02)
NSC-94-2215-E-155-002

17. **C.-H. Ko** and M. J. Hong
"*Metallic photonic crystal structures for polarization beam Splitter and polarizer fabricated by IC nano Cu-interconnect technology*,"
物理雙月刊, 27 卷 1 期, p. 120, (2005/02)
NSC-94-2215-E-155-002

18. **C.-H. Ko**, M.-T Tang, T.-H. Lee, G.-C. Yin, Y.-F. Song, K.-S. Liang, and W. -B. Yun
"*60-nm resolution X-ray 3D tomography with phase-contrast for nanotechnology research*,"
物理雙月刊, 27 卷 1 期, pp. 126-127, (2005/02)

19. **Cheng-Hao Ko**, Shih-Hung Hoang, Jen-Chi Tseng, Yi-Chung Lo, and Ching-Iue Chen
"*Novel analytical technique for SAW chemical sensors with multi-function measurement device Using FT-IR spectro-microscope*,"
物理雙月刊, 27 卷 1 期, p. 147, (2005/02)

20. Y.C. Lee, Y.L. Liu, C.K. Wang, J.L. Shen, P.W. Cheng, C.F. Cheng, **C.-H. Ko**

and T.Y. Lin
"*Decay dynamics of blue-green luminescence in meso-porous MCM-41 nanotubes*,"
Journal of Luminescence, Vol. 113, pp. 258-264 (2005/01).
SCI Impact Factor = 1.518
SCI Rank Factor: OPTIC = 18/55 (32.7%)

2004 年【共 4 篇：SCI：1，EI：1，國內：2】

21. Y. C. Lee, Y. L. Liu, Ji-Lin Shen, I. J. Hsu, P. W. Chen, C. F. Chen, and **C.-H. Ko**
"*Blue–green luminescence from mesoporous MCM-48 molecular sieves*,"
Journal of Non-Crystalline Solids, Volume 341, Issues 1-3 , pp. 16-20, August, 2004.
SCI Impact Factor = 1.264
SCI Rank Factor: MATERIALS SCIENCE, CERAMICS = 3/28 (10.7%)
MATERIALS SCIENCE, MULTIDISCIPLINARY = 59/178 (33.1%)

22. **Cheng-Hao Ko**, Mao-Chang Liang, Chin-Chien Lui, Chi-Kang Lo and Bor-Yuan Shew
"*Design of a High-performance Concave Micro Grating based on X-ray LIGA Technology*,"
「淡江理工學刊」2004 年 8 月「微系統技術」特刊, (2004)

23. Shi-Hung Hoang, Gor-Don Horng, Chen-Yu Chiang, **Cheng-Hao Ko**, Yi-Chung Lo, Ching-Iue Chen and Chao-Kang Chang
"*A Novel Measurement Device for SAW Chemical Sensors with FT-IR Spectro-microscopic Analytical Capability*,"
Tamkang Journal of Science and Engineering, Vol. 7, No. 2, June 2004, (2004).
EI

24. 黃仕泓, **柯正浩**
"表面聲波感測器之前瞻研究",
物理雙月刊, 26 卷 3 期, Pages 512-518, 2004 年 6 月 (2004)

2003 年之前【共 6 篇：SCI：5，國內：1】

25. **柯正浩**
"同步輻射 X 光掃描式光電子能譜顯微儀",
物理雙月刊, 20 卷 5 期 pp.510-516 (October, 1998),
計畫編號: NSC-85-2613-M-001-004, NSC-87-2613-M-213-009.

26. **C.-H. Ko**, J. Kirz, H. Ade, S. Hulbert, E. Johnson and E. Anderson
"*Development of a second generation scanning photoemission microscope with a zone plate generated microprobe at the National Synchrotron Light Source*,"
Rev. Sci. Instrum., 66 (2), pp. 1416-1418 (1995)
SCI Impact Factor = 1.226

27. J. Kirz, H. Ade, E. Anderson, C. Buckley, H. Chapman, M. Howells, C. Jacobsen, **C.-H. Ko**, S. Lindaas, D. Sayre, S. Williams, S. Wirick and X. Zhang
"*New results in soft x-ray microscopy*,"
Nucl. Instrum. Method., B 87, pp. 92-97 (1994)
SCI Impact Factor = 0.997

28. H. Ade, **C.-H. Ko**, and E. Anderson
"*Astigmatism correction in x-ray scanning photoemission microscope with use of elliptical zone plate*,"
Appl. Phys. Lett. 60, pp. 1040 - 1042 (1992).
SCI Impact Factor = 4.308

29. J. Kirz, H. Ade, C. Jacobsen, **C.-H. Ko**, S. Lindaas, I. McNulty, D. Sayre, S. Williams, X. Zhang, and M. Howells
"*Soft x-ray microscopy with coherent x-rays*,"
Rev. Sci. Instrum. 63, pp. 557 - 563 (1992)
SCI Impact Factor = 1.226

30. H. Ade, **C.-H. Ko**, E. Johnson and E. Anderson,
"*Improved images with the scanning photoelectron microscope at the National Synchrotron Light Source*,"
Surf. Intef. Anal. 19, pp. 17-22 (1992)
SCI Impact Factor = 1.209

B. 會議論文

2006年【共 11 篇：國際會議：10，一般會議：1】

1. **Cheng-Hao Ko**, Pao-Ting Cheng, Juen-Hao Zhen and Kuei-Jen Lee
"*A polarizer Chip Based on CMOS Cu-interconnect for Optical Telecommunications*,"
2006 International Electron Devices and Materials Symposia (IEMDS'2006), pp. 287
National Cheng Kung University, Tainan, Taiwan, ROC, 7-8 December, 2006
(International Conference)

2. **Cheng-Hao Ko**, Pao-Ting Cheng, Juen-Hao Zhen and Kuei-Jen Lee
"*A PBS for Optical Telecommunications Based on 2D-MPC Structures*,"
2006 International Electron Devices and Materials Symposia (IEMDS'2006), pp. 290
National Cheng Kung University, Tainan, Taiwan, ROC, 7-8 December, 2006
(International Conference)

3. **Cheng-Hao Ko** and Bor-Yuan Shew
"*An X-ray-LIGA-fabricated wavelength division multiplexer based on conave micrograting*,"
The 11th OptoElectronics and Communications Conference (OECC2006)
Kaoshung, R.O.C., 2006/07/03~07
NSC-94-2215-E-155-002
(International Conference)

4. Chien-Hung Yeh, Ting-Tsan Huang, Ming-Ching Lin, **Cheng-Hao Ko** and Sien Chi
"*Simply gain-flattened erbium fiber amplifier*,"
The 11th OptoElectronics and Communications Conference (OECC2006)
Kaoshung, R.O.C., 2006/07/03~07
(International Conference)

5. **Cheng-Hao Ko**, Pei-Chun Wang and Wei-Chih Liu
"*Visible photonic switching effect of a 2D ferromagnetic photonic crystal*,"
The 11th OptoElectronics and Communications Conference (OECC2006)
Kaoshung, R.O.C., 2006/07/03~07
NSC-94-2215-E-155-002
(International Conference)

6. **Cheng-Hao Ko**, Wei-Chih Liu and Pei-Chun Wang
"*Polarizer Chip based on CMOS Cu-interconnect for optical telecommunications*,"
The 11th OptoElectronics and Communications Conference (OECC2006)
Kaoshung, R.O.C., 2006/07/03~07
NSC-94-2215-E-155-002
(International Conference)

7. B. Y. Shew, Y. H. Tsa and **C.-H. Ko**
"*Design, x-ray micromachining and measurement of a NIR concave grating micro demultiplexer with SU-8 resist*,"
Asia-Pacific Conference of Transducers and Micro-Nano Technology (APCOT2006)
Singapore, 2006/06/25~28
NSC-94-2215-E-155-002
(International Conference)

8. **Cheng-Hao Ko** and Kuei-Jen Lee
"*Visible Photonic Switch Based on Tunable 2D Ferromagnetic Photonic Crystal*,"
International Magnetic Conference (INTERMAG 2006)
San Diego, Califonia, 2006/05/08~12
NSC-94-2215-E-155-002
(International Conference)

9. **Cheng-Hao Ko**, Bor-Yuan Shew and Yuan-Hao Tsai
"*A micro-grating for wavelength division multiplexer fabricated by deep X-ray lithography*,"
The 2nd International Symposium on Micro & Nano Technology (ISMNT-2), pp. 242
Hsinchu, Taiwan, 2006/03/29~31

NSC-94-2215-E-155-002
(International Conference)

10. **Cheng-Hao Ko**, Pei-Chun Wang and Wei-Chih Liu
"*A Polarizer Chip Based On CMOS Cu-Interconnect*,"
The 2nd International Symposium on Micro & Nano Technology (ISMNT-2), pp. 242
Hsinchu, Taiwan, 2006/03/29~31
NSC-94-2215-E-155-002
(International Conference)

11. **C.-H. Ko**, J.-H. Zhen, K.-L. Lee and M.-J. Hong
"探討光通訊波段中奈米銅導線製程之二維金屬光子晶體極化分波器,"
2006中華民國物理學會年會
台大物理系, 2006/01/16~17
NSC-94-2215-E-155-002

2005年 【一般會議：10 篇】

12. **柯正浩**, 劉威志, 王培鈞, 鄭伯庭, 鄭世芳, 林劉恭
"應用在微光柵元件之新穎雙反射式閃耀角的設計與模擬,"
2005 OPT 台灣光電科技研討會暨國科會光電學門研究成果發表會
2005/12/09~10, 成功大學電機系館
NSC-94-2215-E-155-002

13. **柯正浩**, 詹峻豪, 李桂仁, 洪孟章
"奈米銅導線製程研製光通訊波段之二維光子晶體極化器,"
2005 OPT 台灣光電科技研討會暨國科會光電學門研究成果發表會
2005/12/09~10, 成功大學電機系館
NSC-94-2215-E-155-002

14. Ting-Tsan Huang , Ming-Ching Lin , Chien-Hung Yeh ,Cheng-Hao Ko and Sien Chi
"*Multiplexed sensing system based on fiber Bragg gratings and laser configuration*,"
2005 OPT 台灣光電科技研討會暨國科會光電學門研究成果發表會,

2005/12/09~10, 成功大學電機系館
NSC-94-2215-E-155-002

15. **Cheng-Hao Ko**
"*An X-ray-LIGA-fabricated spectrometer chip for wavelength demultiplexing*,"
第二屆海峽兩岸科學技術研討, 2005/10/15~16. 安徽大學電子信息學院
NSC-94-2215-E-155-002

16. Kung Linliu, Sheng-Lung Cho, Keng-Hsuan Hong, **Cheng-Hao Ko**, I-Feng Lin, and Su-Yu Chiang
"*A portable nebulizer based on microelectromechanical system thermal micro-pump device*,"
2005 NSRRC 11th Users' Meeting & Workshops, p. 126
2005/10/25~26, Hsinchu, Taiwan.

17. Kung Linliu, Sheng-Lung Cho, Keng-Hsuan Hong, and **Cheng-Hao Ko**
"*A drug delivering nebulizer based on microelectromechanical system piezoelectric micro-pump device*,"
2005 Annual Meeting of Chemical Society (2005/10).

18. **C.-H. Ko** (柯正浩), B.-Y. Shew(許博淵), C.-C. Lui (呂志堅), and C.-K. Lo (羅際慷)
"*An x-ray-LIGA-fabricated spectrometer chip for optical telecommunications*,"
物理雙月刊, 27 卷 1 期, p.94,
2005 中華民國學會物理年會暨研究成果發表會及 2005 物理教學及示範研討會
高雄市國立中山大學 (2005/2/1~3)

19. **C.-H. Ko** (柯正浩) and M. J. Hong (洪孟章)
"*Metallic photonic crystal structures for polarization beam Splitter and polarizer fabricated by IC nano Cu-interconnect technology*,"
物理雙月刊, 27 卷 1 期, p. 120
2005 中華民國學會物理年會暨研究成果發表會及 2005 物理教學及示範研討會
高雄市國立中山大學 (2005/2/1~3)

20. **C.-H. Ko** (柯正浩), M.-T Tang (湯茂竹), T.-H. Lee (李德輝), G.-C. Yin (殷廣鈐), Y.-F. Song (宋艷芳), K.-S. Liang (梁耕三) ,and W.-B. Yun

"*60-nm resolution X-ray 3D tomography with phase-contrast for nanotechnology research*",
物理雙月刊, 27 卷 1 期, pp. 126-127
2005 中華民國學會物理年會暨研究成果發表會及 2005 物理教學及示範研討會
高雄市國立中山大學 (2005/2/1~3)

21. **Cheng-Hao Ko** (柯正浩), Shih-Hung Hoang (黃仕泓), Jen-Chi Tseng (曾振棋), Yi-Chung Lo (羅一中), and Ching-Iue Chen (陳慶曰)
"*Novel analytical technique for SAW chemical sensors with multi-function measurement device Using FT-IR spectro-microscope,*"
物理雙月刊, 27 卷 1 期, p. 147
2005 中華民國學會物理年會暨研究成果發表會及 2005 物理教學及示範研討會
高雄市國立中山大學 (2005/2/1~3)

2004 年【共 19 篇：國際會議：5，一般會議：14】

22. **C. -H. Ko**, M.-T. Tang, T.-H. Lee, G.-C. Yin, Y.-F. Song, H.-M. Lin, K.-S. Liang and W.-B.Yu
"*60-nm Resolution Phase-Contrast X-ray 3D Tomography for Nano-Scale Research,*"
IU-Material Research Society – International Conference in Asia
Hsinchu, Taiwan (2004/11/16~18)
(International Conference)

23. **C.-H. Ko**, B.-Y. Shew, C.-C. Lui, and C.-K. Lo
"*Surface Plasma Resonance Bio Sensors based on Concave Micro Grating Fabricated by X-ray LIGA Technology*,"
IU-Material Research Society – International Conference in Asia
Hsinchu, Taiwan (2004/11/16~18)
(International Conference)

24. **C.- H. Ko**, Y.- C. Lo, S.- H. Hoang, and J.- C. Tzeng
"*Novel Analytical Technique for SAW Chemical Sensors with Multi-functional Measurement Device Using FT-IR SpectroMicroscope*"

IU-Material Research Society – International Conference in Asia, Hsinchu, Taiwan (2004/11/16~18)
(International Conference)

25. **Cheng-Hao Ko**, Mau-Tsu Tang, Te-Hui Lee, Gung-Chian Yin, Yen-Fang Song, Hsueh-Min Lin, Keng S. Liang and Wenbing Yun
"*Developing of a 3-D Tomography Imaging Technique for Non-Destructive Inspection of MEMS Structures with 60-nm Resolution*,"
2004 IEEE/LEOS International Conference on Optical MEMS and Their Applications (Optical MEMS 2004), p. 132-133
Takamatsu, Kagawa, Japan, August 22-26, 2004
(International Conference)

26. **Cheng-Hao Ko**, Bor-Yuan Shew, Mao-Chang Liang, Chin-Chien Lui and Chi-Kang Lo
"*An X-Ray-LIGA-Fabricated Spectrometer Chip for Wavelength Demultiplexing*,"
2004 IEEE/LEOS International Conference on Optical MEMS and Their Applications (Optical MEMS 2004), p. 136-137
Takamatsu, Kagawa, Japan, August 22-26, 2004
(International Conference)

27. **Cheng-Hao Ko** (柯正浩), Bor-Yuan Shew (許博淵), Chi-Kang Lo (羅際慷), Chin-Chien Lui (呂志堅), and Mao-Chang Liang (梁茂璋)
"*An X-Ray-LIGA-Fabricated Spectrometer Chip for Wavelength Demultiplexing*,"
第一屆應用科技研討會 1st Applied Science and Technology Conference (ASTC) – Photonics and Communications, p. 7
December 9-10, Kaoshuang, Taiwan. 台灣高雄(2004/12/9-10)

28. **Cheng-Hao Ko** (柯正浩) and Mong-Jhang Hong (洪孟章)
"*Polarization Beam Splitter and Polarizer Based on Metallic Photonic-Crystal Structures Fabricated by Nano Cu-interconnect Technology*,"
第一屆應用科技研討會 1st Applied Science and Technology Conference (ASTC) – Photonics and Communications, p. 10
December 9-10, Kaoshuang, Taiwan. 台灣高雄 (2004/12/9-10)

29. 蔡元浩，徐士哲，許博淵，**柯正浩**

"X 光光刻技術製作凹面型微光柵分光儀之研究,"
第八屆奈米工程暨微系統技術研討會 Nano Engineering and Micro System Technology Conference, p. 109
National Tsing Hua University, Hsinchu, Taiwan. 台灣新竹 清華大學 (2004/12/2-3)

30. **Cheng-Hao Ko**, Bor-Yuan Shew, Mao-Chang Liang, Chin-Chien Lui and Chi-Kang Lo
"*An X-Ray-LIGA-Fabricated Spectrometer Chip for Wavelength Demultiplexing*,"
第八屆奈米工程暨微系統技術研討會 Nano Engineering and Micro System Technology Conference, p. 123
National Tsing Hua University, Hsinchu, Taiwan. 台灣新竹 清華大學 (2004/12/2-3)

31. **Cheng-Hao Ko**, Bor-Yuan Shew, Mao-Chang Liang, Chin-Chien Lui and Chi-Kang Lo
"*An X-Ray-LIGA-Fabricated Spectrometer Chip for Wavelength Demultiplexing*,"
國家同步輻射研究中心第十屆用戶年會暨研討會
National Synchrotron Radiation Research Center Tenth Users' Meeting & Workshops, p. 119
October 28-29, Hsinchu, Taiwan (2004/10/28~29)

32. 蔡元浩, 徐士哲, 許博淵, **柯正浩**
"X 光光刻技術製作凹面型微光柵分光儀之研究,"
國家同步輻射研究中心第十屆用戶年會暨研討會
National Synchrotron Radiation Research Center Tenth Users' Meeting & Workshops, p. 122
October 28-29, Hsinchu, Taiwan (2004/10/28~29).

33. **C.-H. Ko**, B. Y. Shew, C. K. Lo, and C. C. Lui
"*Design, Simulation and Measurement of Concave Micro Grating Spectrometer Chip Fabricated by X-ray Lithography Technique*,"
第二十二屆光譜技術與表面科學研討會
台灣屏東 四重溪, 2004/07/26~28

34. Bi-Zen Dong, Kuei Jen Lee, Chung Ping Liu, and **Cheng-Hao Ko**

"*Optical multiple channeled filters composed of alternative elements*,"
International Conference on Physics Education & Frontier Research - 4th OCPA Joint Meeting of Chinese Physicists World-Wide
Shanhai, China, June 30 ~ July 3, 2004

35. **Cheng-Hao Ko**, Mau-Tsu Tang, Te-Hui Lee, Gung-Chian Yin,Yen-Fang Song, Hsueh-Min Lin, Keng S. Liang and Wenbing Yun
"*A 60-nm Resolution Phase-Contrast X-ray 3D Tomography Imaging System for Nanobiotechnology Research*,"
Taiwan International Conference on Nano Science and Technology
Hsinchu, Taiwan (2004/06/30~07/03)

36. Mau-Tsu Tang, **Cheng-Hao Ko**, Te-Hui Lee, Gung-Chian Yin,Yen-Fang Song, and Keng S. Liang
"*Nano Transmission X-ray Microscopy at NSRRC*,"
International Conference on Bio-Physics
Academic Sinica, Taipei, Taiwan (2004/05)

37. **Cheng-Hao Ko**, Mau-Tsu Tang, Te-Hui Lee, Gung-Chian Yin,Yen-Fang Song, Hsueh-Min Lin, and Keng S. Liang
"*60-nm Resolution Phase-Contrast X-ray Tomography for Biomedical Research*,"
2004 年第 11 屆非破壞性檢測技術研討會暨中華民國非破壞性檢測協會年度會議
台灣南投 (2004/04/30~05/01).

38. **Cheng-Hao Ko**, Mau-Tsu Tang, Te-Hui Lee, Gung-Chian Yin,Yen-Fang Song, Hsueh-Min Lin, Sheng Lung Cho, and Keng S. Liang
"*Design of a Transmission X-ray Microscope with 60-nm Resolution at the National Synchrotron Radiation Research Center (NSRRC)*,"
2004 年第 11 屆非破壞性檢測技術研討會暨中華民國非破壞性檢測協會年度會議
台灣南投 (2004/04/30~05/01).

39. **C.-H. Ko**, C. C. Lui, C. K. Lo, M. C. Liang, and B. Y. Shew
"*Design and Performance Analysis of a X-ray LIGA Based Spectrometer Chip with Diffraction-limited Performance in the IR range*,"
2004 年物理年會

清華大學, 台灣新竹 (2004/02/09~11).

40. Shih-Hung Hoang, Gor-Don Horng, Chen-Yu Chiang, **Cheng-Hao Ko**
"*Novel Analytical Technique for SAW Chemical Sensors with Multi-functional Measurement Device*,"
2004 年物理年會
清華大學, 台灣新竹 (2004/02/09~11).

2003 年【一般會議：8 篇】

41. **Cheng-Hao Ko**, Mao-Chang Liang, Chin-Chien Lui and Bor-Yuan Shew
"*Design of a concave micro grating based on x-ray LIGA technology*,"
2003 年奈米工程暨微系統技術研討會
台灣台北 (2003/11/20~21)

42. Shi-Hung Hoang, Gor-Don Horng, Chen-Yu Chiang, **Cheng-Hao Ko**, Yi-Chung Lo, Ching-Iue Chen and Chao-Kang Chang
"*A novel measurement device for SAW chemical sensors with FT-IR spectro-microscopic analytical capability*,"
2003 年奈米工程暨微系統技術研討會
台灣台北 (2003/11/20~21)

43. **Cheng-Hao Ko**, Mao-Chang Liang, Chin-Chien Lui and Bor-Yuan Shew,
"*Design of a concave micro grating for DWDM application based on x-ray LIGA technology*,"
2003 年台灣光電科技研討會
台灣台北 (2003/12/25~26)

44. Shih-Hung Hoang, Gor-Don Horng, Chen-Yu Chiang, **Cheng-Hao Ko**, Yi-Chung Lo, Ching-Iue Chen and Chao-Kang Chang
"*A novel multi-functional measurement device for the characterization of SAW chemical sensors using FT-IR specto-microscopic analytical technique*,"
2003 年台灣光電科技研討會
台灣台北 (2003/12/25~26)

45. 林正乾, **柯正浩**

"小型生質能熱電共生系統開發,"
第二十屆機械工程研討會
台灣台北 (2003/12)

46. 林正乾, **柯正浩**
"水源式熱汞應用於熱回收系統研究,"
第二十屆機械工程研討會
台灣台北(2003/12)

47. Mao-Chang Liang, Chin-Chien Lui, Chi-Kang Lo, **Cheng-Hao Ko,** and Bor-Yuan Shew
"*Development of compact size ir and visible gratings for bio and chemical sensing using x-ray LIGA technology*,"
2003 年國家同步輻射研究中心用戶研討會
台灣新竹 (2003/10)

48. Shih-Hung Hoang, Gor-Don Horng, Chen-Yu Chiang, **Cheng-Hao Ko**, Yi-Chung Lo and Ching-Iue Chen
"*A novel measurement device for SAW chemical sensors based on FT-IR analytical technique*,"
2003 年國家同步輻射研究中心用戶研討會
台灣新竹 (2003/10)

2002 年之前 【共 19 篇：國際會議：17，一般會議：2】

49. T. J. Chuang, Y. L. Chan, Ping Chuang, Ruth Klause, **C.-H. Ko** and D.-H. Wei, "*Surface Chemistry: From Vibrational Spectroscopy to Photoemission Spectromicroscopy*", VASSCAA-1 Conf. (1999)
NSC-85-2613-M-001-004, NSC-87-2613-M-213-009
(International Conference)

50. **C.-H. Ko**, Ruth Klauser, Der-Hsin Wei, Hei-Hing Chan and T. J. Chuang, "*The Soft X-ray Scanning Photoemission Microscopy Project at SRRC*", J. Synchrotron Rad., 5, 299-304 (1998)
NSC-85-2613-M-001-004, NSC-87-2613-M-213-009.
(International Conference)

51. D.-H. Wei, **C.-H. Ko**, R. Klauser, H.-H. Chan and T. J. Chuang, "*Scanning Photoemission Spectromicroscopy – A New Tool for Surface Characterization*", Conf. Proc. of the Annual Meeting of the Physical Society of Taiwan (1998), 計畫編號: NSC-85-2613-M-001-004, NSC-87-2613-M-213-009.

52. **C.-H. Ko**, R. Klauser, D.-H. Wei, H.-H. Chan and T. J. Chuang, "*Soft X-ray Photoemission Spectromicroscopy Project at the SRRC*", Conf. Proc. of the 6th International Conference on Synchrotron Radiation Instrumentation, Himeji, Japan, Aug. 4-8 (1997), 計畫編號: NSC-85-2613-M-001-004, NSC-87-2613-M-213-009. ***(International Conference)***

53. H. Zhang, G. R. Zhuang, H. Ade, **C.-H. Ko**, B. Winn, J. Kirz, D. Leta, R. Polizzotti, S. Cameron, S. Hulbert and E. Johnson, "*Recent Progress with the Scanning Photoemission Microscope at the National Synchrotron Light Source*", Conf. Proc. of the 6th International Conference on Synchrotron Radiation Instrumentation, Himeji, Japan, Aug. 4-8 (1997). ***(International Conference)***

54. **C.-H. Ko**, R. Klauser, T.-J. Chuang, H.-H. Chan, D.-H. Wei, C.-H. Chen, "*Soft X-Ray Photoemission Spectromicroscopy Project at the SRRC*", Conf. Proc. of the Annual Meeting of the Physical Society of Taiwan (1997), 計畫編號: NSC-85-2613-M-001-004.

55. **C.-H. Ko**, R. Klauser, T. J. Chuang, H.-H. Chan and D.-H. Wei, "*Soft X-ray Photoemission Spectromicroscopy Project at the Synchrotron Radiation Research Center in Taiwan*", Proceedings of the International Conference on X-Ray Microscopy and Spectromicroscopy, Wurzburg, Aug 19-23 (1996), 計畫編號: NSC-85-2613-M-001-004. ***(International Conference)***

56. C. R. Zhuang, H. Zhang, H. Ade, **C.-H. Ko**, B. Winn, J. Kirz, G. Mitchell, S. Cameron, D. Leta, S. Hulbert and E. Johnson, "*Recent Progress with the Scanning Photoemission Microscope at the National Synchrotron Light Source*", Proceedings of the International Conference on X-ray Microscopy and Spectromicroscopy, Wurzburg, Aug 19-23 (1996). ***(International Conference)***

57. R. Klauser, **C.-H. Ko**, J.-R. Chen, G.-Y. Hsiung and Y.-C. Liu, "*Status of the Soft X-ray Spectromicroscopy and Lithography Projects at the Synchrotron Radiation Research Center in Taiwan*", Extended Abstract for the 2nd US-Japan Workshop on Soft X-Ray Optics, Nov. 1996, Japan, 計畫編號:

NSC-85-2613-M-001-004. ***(International Conference)***

58. R. Klauser, **C.-H. Ko**, T.-J. Chuang, A. Kumar, "*The Spectromicroscopy Project at SRRC and Initial Synchrotron Radiation Photoemission Studies on the Surfaces of Diamond and SiC*", Proceedings of the Oju Seminar on "Chemical Processes at Surfaces based on Atomic Scale Structure and Dynamics", Nusashi-Ranzan, Saitama, Japan, Oct. 27-30, 1996. Ed. By Ken-ichi Tanaka, ISSP, Univ. of Tokyo, Japan. (1996), 計畫編號: NSC-85-2613-M-001-004. ***(International Conference)***

59. **C.-H. Ko**, J. Kirz, H.Ade, S. Hulbert, E. Johnson, E. Anderson, K. Maier, B. Winn, "*Chemical State Mapping On Material Surfaces with the X1A Second Generation Scanning Photoemission Microscope*", X-ray Microbeam Technology and Applications, Editor W. Yun, Proc. SPIE, Vol 2516, (1995). ***(International Conference)***

60. **C.-H. Ko**, J. Kirz, H. Ade, S. Hulbert, E. Johnson and E. Anderson, "*Applications of the X1A Scanning Photoemission SpectroMicroscope for Element Identification on Material Surfaces*", Mat. Res. Soc. Symp. Proc., Vol. 375, pp. 303-305 (1995). ***(International Conference)***

61. H. Ade, **C.-H. Ko**, "*Scanning Photoemission Spectro-microscopy with 250 to 800 eV X-rays*", Proceedings of the NATO Advanced Research Workshop on Chemical, Structural and Electronic Analysis of Heterogeneous Surfaces on Nanometer Scale, Edited by Renzo Rosei, Trieste, Italy, 24-26 April, NATO ASI Series, Kluwer Academic Publishers (1995). ***(International Conference)***

62. **C.-H. Ko**, J. Kirz, H. Ade, E. Johnson, S. Hulbert, E. Anderson and D. Kern, "*Instrumentation for XPS-based spectromicroscopy at the National Synchrotron Light Source*", Proc. of the Microscopy Society of America Conf., New Orleans (July 1994). ***(International Conference)***

63. **C.-H. Ko**, H. Ade, J. Kirz, E. Johnson, S. Hulbert, E. Anderson and D. Kern, "*Second generation scanning photoemission microscope at the National Synchrotron Light Source*", Proc. of the Microscopy Society of America Conf., Cincinnati. Ohio (1993). ***(International Conference)***

64. H. Ade, C. Jacobsen, J. Kirz, **C.-H. Ko**, S. Lindaas, S. Williams, X. Zhang,

"*Recent Developments in Scanning X-ray Microscopy*", Proceedings of 10th International Conference on Physics with Vacuum Ultraviolet Radiation (1993). ***(International Conference)***

65. J. Kirz, H. Ade, C. Jacobsen, **C.-H. Ko**, S. Lindaas, S. Williams and X. Zhang, "*Soft x-ray microscopy - physical basis and recent developments*", Proc. of the 5th Asia-Pacific Physics Conf., Vol. 1, Kuala Lumpur, Malaysia, 10-15 Aug., World Scientific (1992). ***(International Conference)***

66. C. Jacobsen, H. Ade, J. Kirz, **C.-H. Ko**, S. Williams, X. Zhang, E. Anderson, and D. Kern, "*Scanning soft x-ray microscopy*", in P. B. Kenway, P. J. Duke, G. W. Lorimer, T. Mulvey, I. W. Drummond, G. Love, A. G. Michette, and M. Stedman, eds., Institute of Physics Conf. Ser. 130, Bristol, UK, 1993, pp. 571 - 577, X-ray Optics and Microanalysis (1992). ***(International Conference)***

67. **C.-H. Ko**, H. Ade, J. Kirz, E. Johnson, S. Hulbert, E. Anderson and D. Kern, "*Design of the second generation scanning photoemission microscope at the National Synchrotron Light Source*", Soft X-ray Microscopy, Proc. SPIE, Vol. 1741, pp. 306-311 (1992). ***(International Conference)***

C. 專書及專書論文

1. 博士論文 **C.-H. Ko**, "*Development of a Second Generation Scanning Photoemission Microscope at the National Synchrotron Light Source*", Ph. D. thesis, Department of Physics, State University of New York at Stony Brook (May, 1995)
2. **柯正浩**, "掃描式光電子能譜顯微儀 *Scanning Photoemission Spectromicroscope (SPEM)* ", 儀器總覽, Ch.材料分析儀器, p.48, 國科會精密儀器發展中心出版 (1999), 計畫編號: NSC-85-2613-M-001-004, NSC-87-2613-M-213-009.
3. **柯正浩**, "**U5-SPEM X** 光掃描式光電子能譜顯微實驗戰之建造", 同步輻射研究中心年度報告 (1998), 計畫編號: NSC-85-2613-M-001-004, NSC-87-2613-M-213-009.

D. 技術報告及其他

專利申請

2007

1. 發明專利：專利名稱：光學系統
   台灣專利申請案號：096109036 (2007/03/16 提出)
   大陸專利申請案號：200710097562.2 (2007/04/27 提出)
2. 發明專利：專利名稱：光學系統製程
   台灣專利申請案號：096128494 (2007/08/03 提出)
   大陸專利申請中。 (2007/08/20 提出)

技術報告

2005

1. 元智大學 94 年度大學科技系所人才培育計畫-A 分項計劃.
2. **柯正浩**, "「CMP 磨料技術」價值評鑑報告", Internal Report, China Intangible Asset Appraisement Ltd., (2005/12).

2004

3. 展覽: **柯正浩**, "以 X 光光刻技術製作分光晶片", 九十三年桃園地區八所大學院校創新技術創業育成博覽會, (2004/10).
4. 展覽: **柯正浩**, "表面聲波分子辨識化學感測器", 九十三年桃園地區八所大學院校創新技術創業育成博覽會, (2004/10)
5. **柯正浩**, "「車用電動引擎技術」價值評鑑報告", Internal Report, China Intangible Asset Appraisement Ltd., (2004/12).
6. **柯正浩**, "「半導體積體電路奈米銅製程」價值評鑑報告", Internal Report, China Intangible Asset Appraisement Ltd., (2004/10).
7. **柯正浩**, "「智慧型不斷電系統技術」價值評鑑報告", Internal Report, China Intangible

Asset Appraisement Ltd., (2004/06).

2003

8. **柯正浩**, "「超高速乙太網路交換器技術」價值評鑑報告", Internal Report, China Intangible Asset Appraisement Ltd., (2003/11).
9. **柯正浩**, "「自動對位平行曝光機技術」價值評鑑報告", Internal Report, China Intangible Asset Appraisement Ltd., (2003/11).
10. M.-T. Tan and **C.-H. Ko**, "*Evaluation of the Construction of A Transmission X-ray Microscope with Nanometer Scale Resolution in the 8~11 keV Energy Range*", Internal Technical Report, National Synchrotron Radiation Research Center, (2003/11).
11. **柯正浩,** "「具備影像傳輸功能之數位相機技術」價值評鑑報告", Internal Report, China Intangible Asset Appraisement Ltd., (2003/10).
12. **柯正浩**, "「有機光導體才料生產技術」價值評鑑報告", Internal Report, China Intangible Asset Appraisement Ltd., (2003/07).
13. **柯正浩**, 劉宗平, 王仲淳, 林志民, "元智大學光子晶體教學與研究計畫", 教育部提升教師質量計畫, (2003/05).

2002

14. **柯正浩,** 高美雯, 郭衛中, 程一麟, "美梭材料科技公司營運計畫", Internal Report, MesoPhase Technology, Inc.(2002/08).
15. **柯正浩,** 高美雯, 郭衛中, "奈米材料之商業應用與發展評估報告", Internal Report, MesoPhase Technology, Inc.(2002/08).
16. **柯正浩,** 郭衛中, "奈米蒙托土添加於 Neosprene 之特性加強研究", Internal Technical Report, MesoPhase Technology, Inc.(2002/05).

2001

17. **C.-H. Ko**, "*Development of Telephony Based Auto Attendant System using Speaker-Independent Automatic Speech Recognition Technology*", Internal Technical Report, SpeechNet, Inc. (2001/08).
18. **C.-H. Ko**, "*Development of Telephony Based Stock Quoting System using Speaker-Independent Automatic Speech Recognition Technology*", Internal Technical Report, SpeechNet, Inc. (2001/03).
19. **C.-H. Ko**, "*Development of Telephony Based Voice Portal System using Speaker-Independent Automatic Speech Recognition Technology*", Internal Technical Report, SpeechNet, Inc. (2001/02).
20. **C.-H. Ko** and L. Ker, "*Voice Portal Initiative for TransAsia Telecommunictaions, Inc.*", Internal Technical Report, SpeechNet, Inc., (2001).

~2000

21. **C.-H. Ko**, J. Kirz, H. Ade, S. Hulbert, E. Johnson and E. Anderson, "*First Results with the Second Generation Photoemission Microscope*", NSLS Activity Report, BNL, (1994).

— End of List —