

期刊論文 (Refereed Journal Papers)

1. C. L. Wei, Y. C. Chen, C.C. Cheng, and K. S. Kao, "Solidly Mounted Resonators Consisted of Molybdenum and Titanium Bragg Reflector," *Applied Physics A: Materials Science & Processing*, Vol. 90, pp. 501-506, Feb. 2008.
2. R. C. Lin, K. S. Kao, C. C. Cheng, and Y. C. Chen, "Deposition and structural properties of R.F. magnetron sputtered ZnO thin films on Pt/Ti/SiNx/Si substrate for FBAR device," *Thin Solid Films*, Vol. 516, pp. 5262–5265, Jan. 2008.
3. C.J. Chung, Y.C. Chen, C.C. Cheng, and K.S. Kao, "Fabrication and Frequency Response of Solidly Mounted Resonators with $\lambda/4$ Mode Configuration," *Thin Solid Films*, Vol. 516, pp. 5277–5281, Jan. 2008.
4. R. C. Lin, Y. C. Chen, W. T. Chang, C. C. Cheng, and K. S. Kao, "Highly sensitive mass sensor using film bulk acoustic resonator," *Sensors and Actuators A: Physical*, Vol. 147, pp. 425–429, Jan. 2008.
5. P. T. Hsieh, Y. C. Chen, K. S. Kao, M. S. Lee and C. C. Cheng, "The Ultraviolet Emission Mechanism of ZnO Thin Film Fabricated by Sol-Gel Technology," *Journal of the European Ceramic Society*, Vol. 27, pp. 3815-3818, Jul. 2007.
6. M. C. Kao, H. Z. Chen, S. L. Yang, Y. C. Chen and P. T. Hsieh, "Influence of grain size of ZnO nanocrystalline films for performance of dye-sensitized solar cells," *International Journal of Modern Physics B*, Vol. 21, No. 18-19, pp. 3448-3454, Jun. 2007.
7. C.J. Chung, Y.C. Chen, C.C. Cheng, C.L. Wei, and K.S. Kao, "The Influences of Surface Roughness of Bragg Reflectors on the Resonance Characteristics of Solidly Mounted Resonators," *IEEE Trans. on Ultrason., Ferroelect., and Freq. Contr.*, Vol. 54, pp. 802-808, May 2007.
8. Chien-Min Cheng, Ying-Chung Chen, Cheng-Fu Yang, Chao-Chin Chan, "Sintering and Compositional Effects on the Microwave Dielectric Characteristics of $\text{Mg}(\text{Ta}_{1-x}\text{Nb}_x)\text{O}_6$ Ceramics with $0.25 \leq x \leq 0.35$," *Journal of Electroceramics*, Vol. 18, pp. 155-160, May 2007.
9. Kai-Huang Chen, Ying-Chung Chen, Cheng-Fu Yang, Zhi-Sheng Chen, and Ting-Chang Chang, "Effects of Laser Annealing on the Electrical Characteristics of Dynamic Random Access Memory Using $(\text{Ba}_{0.7}\text{Sr}_{0.3})(\text{Ti}_{0.9}\text{Zr}_{0.1})\text{O}_3$ Thin Films," *Japanese Journal of Applied Physics*, Vol. 46, No. 7A, pp. 4197–4199, May 2007.
10. P. T. Hsieh, Y. C. Chen, K. S. Kao and C. M. Wang, "Structural Effect on UV Emission Properties of High-quality ZnO Thin Films Deposited by RF Magnetron Sputtering," *Physica B*, Vol. 392, pp. 332-336, Apr. 2007.
11. R. C. Lin, K. S. Kao, and Y. C. Chen, "Two-step sputtered ZnO piezoelectric films for film bulk acoustic resonators," *Applied Physics A: Materials Science & Processing*, Vol. 89, pp. 475-479, Mar. 2007.

12. Kai-Huang Chen, Ying-Chung Chen, Zhi-Sheng Chen, Cheng-Fu Yang, Ting-Chang Chang, "Temperature and frequency dependence of the ferroelectric characteristics of BaTiO₃ thin films for nonvolatile memory applications," *Applied Physics A: Materials Science & Processing*, Vol. 89, pp. 533–536, Mar. 2007.
13. Kai-Huang Chen, Chien-Chuan Cheng, Ying-Chung Chen and Ting-Chang Chang, "Reliability of Ba(Zr_{0.1}Ti_{0.9})O₃ Ferroelectric Thin Films under Various Frequencies for Nonvolatile Memory Application," *Key Engineering Materials*, Vol. 336-338, pp. 73-75, Jan. 2007.
14. C. M. Wang, K. S. Kao, S. Y. Lin, Y. C. Chen and S. C. Weng, "Effects of processing conditions on the dielectric properties of CaCu₃Ti₄O₁₂ ceramics," *Effects of processing conditions on the dielectric properties of CaCu₃Ti₄O₁₂ ceramic*, Vol. 336-338, pp. 210-212, Nov. 2006.
15. W. K. Chia, M. Yokoyama, C. F. Yang, W. T. Chiahg and Y. C. Chen, "Improved Optical Transmittance and Crystal Characteristics of ZnS:TbOF Thin Film on Bi₄Ti₃O₁₂/Indium Tin Oxide/Glass Substrate by Using a SiO₂ Buffer Layer," *Jpn. J. Appl. Phys.*, Vol. 45, pp. 5847-5852, Sep. 2006.
16. W. C. Tzou, Y. C. Chen, C. F. Yang and C. M. Cheng, "The sintering and microwave dielectric characteristics of Mg(Ta_{2-x}Nb_x)O₆ ceramics," *Materials Research Bulletin*, Vol. 41, pp. 1357-1363, Aug. 2006.
17. C. F. Yang, W. K. Chia, Y. C. Chen and C. M. Cheng, "The influence of thin film thickness on the characteristics of Bismuth Titanate Oxide," *Key Engineering Materials*, Vol. 326-328, pp. 129-131, Jul. 2006.
18. Wei-Kuo Chia, Ying-Chung Chen, Cheng-Fu Yang, "Electrical and Optical Characteristics of Bi₄Ti₃O₁₂ Thin Film on Indium-Tin-Oxide/Glass," *Japanese Journal of Applied Physics*, Vol. 45, pp. 5087-5090, Apr. 2006.
19. P. T. Hsieh, Y. C. Chen, C. M. Wang, Y. Z. Tsai and C.C.Hu, "Structural and photoluminescence characteristics of ZnO films by room temperature sputtering and rapid thermal annealing process," *Applied Physics A: Materials Science & Processing*, Vol. 84, No. 3, pp. 345-349, Feb. 2006.
20. C. J. Chung, K. S. Kao, C. C. Cheng, and Y. C. Chen, "Proton-Exchanged 36° Y-X LiTaO₃ Waveguides for Surface Acoustic Wave," *IEEE Trans. on Ultrason., Ferroelect., and Freq. Contr.*, Vol. 53, pp. 502-505, Feb. 2006.
21. K. H. Chen, C. C. Cheng, Y. C. Chen and T. C. Chang, "Reliability of Ba(Zr_{0.1}Ti_{0.9})O₃ Ferroelectric Thin Films under Various Frequencies for Nonvolatile Memory Application," *Key Engineering Materials*, Vol. 336-338, pp. 73-75, Jan. 2006.
22. T.H. Meen, M.C. Kao, and Y.C. Chen, "Pyroelectric Mg-modified PbTiO₃ Thin Films and Devices for Thermal Infrared Detecion," *Applied Physics A: Materials Science & Processing*, Vol. 80, pp. 87-91, Jul. 2005.
23. J.L. Chiang, J.C. Chou, and Y.C. Chen, "Study on Light and Temperature Properties of AlN pH-ion-sensitive Field-effect Transistor Devices," *Jpn. J. Appl. Phys.*, Vol. 44, No. 7A, pp. 4831-4837, Jul. 2005.
24. K.S. Kao, C.C. Cheng, C.J. Chung, and Y.C. Chen, "Surface Acoustic Wave Properties of

Proton-Exchanged LiNbO₃ Waveguides with SiO₂ Film,"IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, Vol. 52, No. 3, pp. 503-506, Mar. 2005.

25. C.F. Yang, C.C. Chan, C.M. Cheng, and Y.C. Chen, "The Sintering and Microwave Dielectric Characteristics of MgTa_{1.5}Nb_{0.5}O₆ Ceramics," J. European Ceramic Society, Vol. 25, pp. 2849-2852, Mar. 2005.
26. C.C. Chan, M.C. Kao, and Y.C. Chen, "Effects of Membrane Thickness on the Pyroelectric Properties of LiTaO₃ Thin Film IR Detectors," Jpn. J. Appl. Phys., Vol. 44, No. 2A, pp. 951-955, Feb. 2005.
27. S.S. Jan, Y.C. Chen, and J.C. Chou, "Effect of Mg²⁺-dopant on the Characteristics of Lead Titanate Sensing Membrane for Ion-sensitive Field-effect Transistors," Sensors and Actuators B, Vol. 108, pp. 883-887, Jan. 2005.
28. Y.C. Chen, S.S. Jan and J.C. Chou, "Temperature Effect on the Characteristics of Hydrogen Ion-Sensitive Field-Effect Transistors with Sol-Gel-Derived Lead Titanate Gates," Analytica Chimica Acta, Vol. 516, pp. 43-48, May 2004.
29. K.S. Kao, C.C. Cheng, Y.C. Chen and C.H. Chen, "The Dispersion Properties of Surface Acoustic Wave Devices on AlN/LiNbO₃ Film/Substrate Structure," Applied Surface Science, Vol. 230, pp. 334-339, Apr. 2004.
30. M. C. Kao, C. M. Wang, M. S. Lee, H. Z. Chen and Y. C. Chen, "Characterization of Sol-Gel Prepared Magnesium Modified Lead Titanate Thin Films," Applied Physics A: Materials Science & Processing, Vol. 78, pp. 705-709, Feb. 2004.
31. C.C. Cheng, K.S. Kao, Y.C. Chen and C.J. Chung, "Temperature Coefficient of SAW Device on SiO₂/Proton Exchanged LiNbO₃ Substrate," Ferroelectrics, Vol. 304, pp. 143-145, Jan. 2004.
32. M.C. Kao, H.Z. Chen, C.M. Wang, Y.C. Chen and M.S. Lee, "Rapid Thermal Processing of Lithium Tantalite Thin Films Prepared by a Diol-Based Sol-Gel Process," Applied Physics A: Materials Science & Processing, Vol. 79, pp. 103-108, Jan. 2004.
33. M.C. Kao, Y.C. Chen, H.Z. Chen, C.M. Wang and Y.J. Li, "Leakage Current Mechanisms in Rapid Thermal Annealed LiTaO₃ Thin Films Prepared by a Diol-Based Sol-Gel Method," Ferroelectrics, Vol. 304, pp. 151-154, Jan. 2004.
34. M.C. Kao, Y.C. Chen, C.M. Wang and H.Z. Chen, "LiTaO₃ Thin Films Prepared by a Diol-Based Sol-Gel Process and Crystallized by Conventional and RTA Processes," Ferroelectrics, Vol. 304, pp. 147-150, Jan. 2004.
35. K.H. Chen, Y.Z. Tsai, Y.C. Chen and C.J. Wang, "Dielectric and Electrical Characteristics of the Barium Strontium Titanate Zirconium Thin Film by RF Sputtering," Integrated Ferroelectrics, Vol. 61, pp. 129-132, Jan. 2004.
36. K.S. Kao, C.J. Chung, Y.C. Chen, and C.C. Cheng, "Phase Tunable SAW Device on LiNbO₃ Substrate," Ferroelectrics, Vol. 304, pp. 139-142, Jan. 2004.
37. S.S. Jan, Y.C. Chen, J.C. Chou, P.P. Jan and C.C. Cheng, "Preparation and Properties of Hydrogen Ion-Sensitive Field Effect Transistors with Sol-Gel-Derived Mg-modified Lead Titanate Gate," J. Non-Crystalline Solids, Vol. 332, pp. 11-19, Dec. 2003.
38. C.M. Cheng, Y.C. Chen, C.F. Yang and T.H. Meen, "Microwave Dielectric Characteristics of

ZnTa_{1.7}Nb_{0.3}O₆ Ceramics,"Jpn. J. Appl. Phys., Vol. 42, No. 11A, pp. 7005-7008, Nov. 2003.

39. M.C.KAO, C.M. Wang, H.Z. Chen, M.S. Lee and Y.C. Chen,"Thickness-Dependent Leakage Current of (Polyvinylidene Fluoride/Lead Titanate) Pyroelectric Detectors,"IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, Vol. 50, No. 8, pp. 958-964, Aug. 2003.
40. H.Z. Chen, L. Horng, Y.C. Chen, J.B. Shi and S.L. Young,"Synthesis Characterization and Magnetic Properties of the La_{0.7-x}Sm_xPb_{0.3}MnO₃ Manganites,"Physica B, Vol. 329-333, pp. 727-728, Aug. 2003.
41. C.F. Yang, Y.C. Chen, W.C. Tzou and S L. Chang,"Sintering and Microwave Dielectric Characteristics of MCAS Glass-Added 0.84Al₂O₃-0.16TiO₂ Cermics,"Materials Letters, Vol. 57, pp. 2945-2949, Aug. 2003.
42. J.L. Chiang, J.C. Chou, Y.C. Chen, G.S. Liao and C.C. Cheng,"Drift and Hysteresis Effects on AlN/SiO₂ Gate pH Ion-Sensitive Field-Effect Transistor,"Jpn. J. Appl. Phys., Vol. 42, No. 8A, pp. 4973-4977, Aug. 2003.
43. M.C. Kao, H.Z. Chen, C.M. Wang and Y.C. Chen,"Pyroelectric Properties of Sol-Gel-Derived Lithium Tantalite Thin Films,"Physica B, Vol. 329-333, pp. 1527-1528, Mar. 2003.
44. H.Z. Chen, S.L. Young, Y.C. Chen, L. Horng and J.B. Shi,"Magnetic and Transport Properties of La_{0.7-x}Pr_xPb_{0.3}MnO₃,"Physica B, Vol. 329-333, pp. 729-730, Mar. 2003.
45. K. S. Kao, C. C. Cheng, Y. C. Chen and Y. H. Lee,"The Characteristics of Surface Acoustic Wave on AlN/LiNbO₃ substrate,"Applied Physics A: Materials Science & Processing, Vol. 76, pp. 1125-1127, Jan. 2003.
46. C. M. Wang, M. C. Kao, Y. C. Chen and Y. H. Lai,"Properties of Sol-Gel Derived (Polyvinylidene Fluoride/Lead Titanate) Pyroelectric Bilayer Thin Films,"Jpn. J. Appl. Phys., Vol. 42, No. 1A, pp. 170-174, Jan. 2003.
47. C.F. Yang, W.C. Tzou, Y.C. Chen, T.H. Lee and P.S. Cheng,"A Tuning Slot Modified Dual-mode Bandpass Filter on Al₂O₃ Substrate,"Microwave and Optical Technology Letters, Vol. 36, No. 2, pp. 126-129, Jan. 2003.
48. W.C. Tzou, Y.C. Chen, S.L. Chang and C.F. Yang,"Microwave Dielectric Characteristics of Glass-Added (1-x)Al₂O₃-xTiO₂ Ceramics,"Jpn. J. Appl. Phys., Vol. 41, No. 12A, pp. 7422-7425, Dec. 2002.
49. S.S. Jan, Y.C. Chen, J.C. Chou, C.C. Cheng and L.T. Lu,"Nonideal Factors of Ion-Sensitive Field-Effect Transistors with Lead Titanate Gate,"Jpn. J. Appl. Phys., Vol. 41, No. 10A, pp. 6297-6301, Oct. 2002.
50. S.S. Jan, J.L. Chiang, Y.C. Chen, J.C. Chou and C.C. Cheng,"Characteristics of the Hydrogen Ion-Sensitive Field-Effect Transistors with Sol-Gel-Derived Lead Titanate Gate,"Analytica Chimica Acta, Vol. 469, pp. 205-216, Oct. 2002.
51. J.L. Chiang, J.C. Chou and Y.C. Chen,"Sensitivity and Hysteresis Properties of a-WO₃, Ta₂O₅, and a-Si:H Gate Ion-sensitive Field-effect Transistors,"Opt. Eng., Vol. 41, No. 8, pp. 2032-2038, Aug. 2002.
52. M.C. Kao, Y.C. Chen, C.M. Wang and H.Z. Chen,"Properties of LiTaO₃ Thin Films Derived by a Diol-Based Sol-Gel Process,"Jpn. J. Appl. Phys., Vol. 41, No. 5A, pp. 2982-2986, May 2002.

53. L. Horng, C.C. Chang, T.C. Wu, S.L. Young, Y.C. Chen and H.Z. Chen, "Synthesis and Magnetic Characterization of the $\text{La}_{0.6}\text{Ln}_{0.1}\text{Pb}_{0.3}\text{MnO}_3$ (Ln=Pr, Nd and Y) Manganites," *J. Appl. Phys.*, Vol. 91, No. 10, pp. 8906-8908, May 2002.
54. S.L. Young, Y.C. Chen, H.Z. Chen, L. Horng and J.F. Hsueh, "Effect of the Substitutions of Ni^{+3} , Co^{+3} , and Fe^{+3} for Mn^{+3} on the Ferromagnetic States of the $\text{La}_{0.7}\text{Pb}_{0.3}\text{MnO}_3$ Manganite," *J. Appl. Phys.*, Vol. 91, No. 10, pp. 8915-8917, May 2002.
55. K.S. Kao, C.C. Cheng and Y.C. Chen, "Synthesis and Surface Acoustic Wave Properties of AlN Films Deposited on LiNbO_3 Substrates," *IEEE Trans. Ultrason. Ferroelectr. & Freq. Control*, Vol. 49, No. 3, pp. 345-349, Mar. 2002.
56. H. Chou, P.I. Lin, C.C. Hsu, T.C. Chow, M.T. Hong, Y.C. Chen, J.R. Liu and T.P. Tsai, "Polishing Effect of the Plasma on the Growth of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Films by RF Sputtering," *J. Vac. Sci. & Tech. A*, Vol. 20, No. 2, pp. 441-446, Mar. 2002.
57. S.S. Jan, Y.C. Chen, J.C. Chou, C.C. Cheng and C.T. Lu, "Preparation and Properties of Lead Titanate Gate Ion-Sensitive Field-Effect Transistors by the Sol-Gel Method," *Jpn. J. Appl. Phys.*, Vol. 41, No. 2A, pp. 942-948, Feb. 2002.
58. J.L. Chiang, Y.C. Chen, J.C. Chou and C.C. Cheng, "Temperature Effect on AlN/ SiO_2 Gate pH-ISFET Devices," *Jpn. J. Appl. Phys.*, Vol. 41, No. 2A, pp. 541-545, Feb. 2002.
59. S.L. Young, H.Z. Chen, C.H. Lin, Lance Horng, J.B. Shi and Y.C. Chen, "Magnetization Processes in Polycrystalline $(\text{La}_{0.7-x}\text{Nd}_x)\text{Pb}_{0.3}\text{MnO}_3$," *J. Magn. Magn. Mater.*, Vol. 239, No. 1-3, pp. 70-72, Jan. 2002.
60. S.L. Young, Y.C. Chen, Lance Horng, T.C. Wu, C.C. Chang, H.Z. Chen and J.B. Shi, "Structure Characterization and Magnetic Properties of the $\text{Ln}_{0.7}\text{Pb}_{0.3}\text{MnO}_3$ (Ln=La, Nd and Pr) Manganites," *J. Magn. Magn. Mater.*, Vol. 239, No. 1-3, pp. 11-13, Jan. 2002.
61. W.C. Tzou, C.F. Yang, Y.C. Chen and P.S. Cheng, "Microwave Dielectric Characteristics of $(\text{Bi}_{1-x}\text{Sm}_x)\text{NbO}_4$ Ceramics," *Ceramics International*, Vol. 28, pp. 105-110, Jan. 2002.
62. J.L. Chiang, Y.C. Chen and J.C. Chou, "Simulation and Experimental Study of the pH Sensing Property for AlN Thin Films," *Jpn. J. Appl. Phys.*, Vol. 40(8A), Aug. 2001.
63. K.S. Kao, C.C. Cheng and Y.C. Chen, "Synthesis of C-Axis Oriented Aluminum Nitride Films by Reactive RF Magnetron Sputtering for Surface Acoustic Wave," *Jpn. J. Appl. Phys.*, Vol. 40(8A), Aug. 2001.
64. S.L. Young, H.Z. Chen, Lance Horng, J.B. Shi and Y.C. Chen, "Evolution of Magnetotransport Properties and Spin-Glass Behavior of the $\text{La}_{0.7-x}\text{Nd}_x\text{Pb}_{0.3}\text{MnO}_3$ System," *Jpn. J. Appl. Phys.*, Vol. 40(8A), Aug. 2001.
65. Y.C. Chen, W.C. Tzou, C.F. Yang and P.S. Cheng, "The Effect of the Crystalline Phase on the Sintering and Microwave Dielectric Properties of CuO-doped $(\text{Bi}_{0.95}\text{Sm}_{0.05})\text{NbO}_4$ Ceramics," *Jpn. J. Appl. Phys.*, Vol. 40(5A), pp. 3252-3255, May 2001.
66. M.T. Hong, Y.C. Chen, M.N. Ou, M.F. Wu, T.C. Chow and H. Chou, "Thermal Coupling Effect on the AC Thermal Signal and DC Characteristics of High Temperature Superconducting Bolometers," *Jpn. J. Appl. Phys.*, Vol. 40(2A), pp. 572-575, Feb. 2001.
67. C.C. Cheng, R.C. Horng and Y.C. Chen, "Formation and properties of proton-exchanged and

annealed LiNbO₃ waveguides for surface acoustic wave,"IEEE Trans. Ultrason. Ferroelectr. & Freq. Control, Vol. 48(2), pp. 387-391, Jan. 2001.

68. Y.C. Chen, P.S. Cheng, C.F. Yang and W.C. Tzou,"Substitution of CaO by BaO to Improve the Microwave Dielectric Properties of CaO-Li₂O-Sm₂O₃-TiO₂ Ceramics,"Ceramics International, Vol. 7, Jan. 2001.
69. Y.C. Chen, P.S. Cheng, C.F. Yang and W.C. Tzou,"The Microwave Dielectric Properties of CaO-BaO-Li₂O -Sm₂O₃-TiO₂ Ceramics,"J. Mater. Sci. Lett, Jan. 2001.
70. M.T. Hong, Y.C. Chen, C.C. Hsu, W.C. Wu, T.C. Chow and H. Chou,"Optical Detection by a La_{0.67}Ca_{0.33}MnO_{3-y} Thin Film Microbridge,"Jpn. J. Appl. Phys, Vol. 40(8A), Jan. 2001.
71. W.C. Tzou, C.F. Yang, Y.C. Chen and P.S. Cheng,"Microwave Dielectric Characteristics of (Bi_{1-x}Sm_x)NbO₄ Ceramics,"Ceramics International, Jan. 2001.
72. P.S. Cheng, C.F. Yang, Y.C. Chen and W.C. Tzou,"The Microwave Dielectric Properties of (Ba, Sr)Sm₂Ti₄O₁₂ Ceramics ($0 \leq x \leq 0.1$),"J. Mater. Sci. Lett, Jan. 2001.
73. C.M. Wang, Y.T. Huang, Y.C. Chen, M.S. Lee and M.C. Kao,"Pyroelectric Properties of Sol-Gel Derived (Pb,Ca)TiO₃ Thin Film detectors,"Jpn. J. Appl. Phys, Vol. 39(7A), pp. 4064-4067, Jul. 2000.
74. C.M. Wang, Y.T. Huang, Y.C. Chen, M.S. Lee and M.C. Kao,"Characterizations of Calcium Modified Lead Titanate Thin Films Derived from a Diol-Based Sol-Gel Process,"Jpn. J. Appl. Phys, Vol. 39(6A), pp. 3579-3583, Jun. 2000.
75. M.T. Hong, C.W. Jen, H.H. Chu, T.C. Chow, Y.C. Chen and H. Chou,"The Thermal Conversion Efficiency in YBa₂Cu₃O_{7- δ} Microbridges for Optical Detection,"Jpn. J. Appl. Phys, Vol. 39(5A), pp. 2599-2603, May 2000.
76. W.C. Tzou, C.F. Yang, Y.C. Chen and P.S. Cheng,"Improvements in the Sintering and Microwave Properties of BiNbO₄ Microwave Ceramics by V₂O₅ Addition", "J. European Ceramic Society, Vol. 20, pp. 991-996, Jan. 2000.
77. S.L. Young, Y.C. Chen, L. Horng, T.C.Wu, H.Z. Chen and J.B. Shi,"Structural and Magnetic Properties in La_{0.7}Pb_{0.3}Mn_{1-x}CoxO₃ Systems,"J. Magnetism and Magnetic Materials, Vol. 289, pp. 145-147, Jan. 2000.
78. P.S. Cheng, C.F. Yang, Y.C. Chen and W.C. Tzou,"The Reaction Sequence and Dielectric Properties of BaSm₂Ti₄O₁₂ Ceramics,"Ceramics International, Vol. 26, pp. 877-881, Jan. 2000.
79. H.Z. Chen, S.L. Young, J.B. Shi and Y.C. Chen,"Structure and Properties of La_{0.7}Pb_{0.3}Mn_{1-x}CoxO₃,"Physica B, Vol. 284, pp. 1430-1431, Jan. 2000.
80. C.M. Wang, Y.C. Chen, K.J. Chen, and M.S. Lee,"Microstructure and Absorption Property of Silver Black Coatings,"Jpn. J. Appl. Phys., 2000.
81. H.L. Tsay, Y.C. Chen, C.F. Chang, S.S. Weng, and H.D. Yang,"Magnetic field and pressure dependence of T_c and T_N in TbSr₂Cu_{2.7}Mo_{0.3}O₇₋₈,"Phys. Rev.B59, pp. 636-640, 1999.
82. C.M. Wang, Y.C. Chen, M.S. Lee, C.C. Chiou, and Y.T. Hung,"Pyroelectric Properties of La-modified Lead Titanate Thin Film Detectors,"Jpn. J. Appl. Phys., Vol. 38(5A), pp. 2831-2834, 1999.
83. C.M. Wang, Y.C. Chen, M.S. Lee, J.W. Wu, and C.C. Chiou,"The properties of PLT Thin Films

Derived from a Diol-Based Sol- Gel Process,"Jpn. J. Appl. Phys., Vol. 37, pp. 951-957, 1998.

84. C.C. Cheng, Y.C. Chen, R.C. Horng, H.J. Wang, W.R. Chen, and E.K. Lai,"Growth of c-axis oriented aluminum nitride films on GaAs substrates by reactive rf magnetron sputtering,"J. Vac. Sci. Technol. AA16(6), pp. 3335-3340, 1998.
85. H.Z. Chen, T.C. Chow, M.T. Hong, T.L. Lin, K.S. Lin, Y.F. Cheng, Y.C. Chen, and H. Chou,"The Broad Band Optical Detection of Precipitational Free TBCO Thin Films,"Physica C, Vol. 274, pp. 24-, 1997.
86. C.W. Lin, J.Y. Lin, H.D. Yang, T.H. Meen, H.L. Tsay, Y.C. Chen, J.C. Huang, S.R. Sheen, and M.K. Wu,"Synthesis of PrBa₂Cu₄O₈ at ambient oxygen pressure,"Physica C, Vol. 276, pp. 225-228, 1997.
87. H.L. Tsay, Y.C. Chen, F.L. Juang, W.M.Wang, and H.D. Yang,,,"Occurrence of superconductivity in Ca and Sr doped PrSr₂Cu_{2.7}Mo_{0.3}O_{7-δ},"Phys. Rev.B53, pp. 11340-, 1996.
88. C.C. Cheng, Y.C. Chen, H.J. Wang, and W.R. Chen,,,"Morphology and Structure of Aluminum Nitride Thin Films on Glass Substrate,"Jpn. J. Appl. Phys., 35(A), Vol. 35(A), pp. 1880-18815, 1996.
89. Y.C. Chen and C.C. Cheng,,,"Proton-Exchange Z-cut LiNbO₃ Waveguides for Surface Acoustic Waves,"IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, Vol. 43(3), pp. 417-421, 1996.
90. Y.C. Chen, G.M. Lo and M.Y. Su,"Influence of Manganese on the Room-Temperature Resistivity of Lanthanum-Doped BaTiO₃,"Jpn. J. Appl. Phys.,, Vol. 35(5A), pp. 2745-2748, 1996.
91. H. Chou, H.Z. Chen, Y.C. Chen, T.L. Lin, T.C. Chow and T.P. Wang,,,"Surface Morphology Effect on the Photoresponse of High Temperature Superconducting Microbridges,"Appl. Phys. Lett.,, Vol. 69(9), pp. 1306-1308, 1996.
92. C.C. Cheng, Y.C. Chen and S.T. Wang,"Surface Acoustic Wave Properties of z-cut LiNbO₃ Waveguides Fabricated by Proton Exchanged Using Octanoic Acid,"J. Phys. D: Appl. Phys.,, Vol. 29, pp. 589-592, 1996.
93. H.D. Yang, H.L. Tsay, S.Y.Chen, C.F. Chang, S.H. Chang, C.W. Lin, J.Y. Lin, and Y.C. Chen,"Structure and superconductivity of Y(Ba_{1-x}R_x)₂Cu₃O_{7-δ} (R=La, Pr, and Nd),"Czech J. Phys., Vol. 46, No. s3, pp. 1409-, 1996.
94. G.M Lo, Y.C. Chen and S.H.Chen,,,"The Influence of Manganese on NTC Effect of BaTiO₃ PTCR,"Jpn. J. Appl. Phys., Vol. 34(8A), pp. 4133-4136, 1995.
95. H.L. Tsay, C.R. Shih, Y.C. Chen, W.H. Lee, T.H.Meen and H.D. Yang,,,"Superconductivity and magnetic order in RSr₂Cu_{2.7}Mo_{0.3}O_{7-*} (R=Y, Pr, Gd, and Tb),"Physica C,, Vol. 252, pp. 79-86, 1995.
96. H. D. Yang, H.L. Tsay, C.R. Shih and Y.C. Chen,,,"Superconductivity and Magnetism in Y_{1-x}Pr_xSr₂Cu_{2.7}Mo_{0.3}O_{7-*},"Phys. Rev. B,, Vol. 51(13), pp. 8543-8550, 1995.
97. T.H. Meen, F.L.Juang, W.J. Huang, Y.C. Chen, K.C. Huang and H.D. Yang,,,"Structure, Superconductivity and Magnetism of YBa₂(Cu_{1-x}M_x)₄O₈, (M=Fe, Co, Ni, Zn and Ga),"Physica C,, Vol. 242, pp. 373-380, 1995.

98. C.C. Cheng, Y.C. Chen, S.T. Wang and B.W. Tsai, "Proton-Exchanged Waveguides for Surface Acoustic Wave on Z-cut LiNbO₃ Using Octanic Acid," *Jpn. J. Appl. Phys.*, Vol. 34(10A), pp. 5732-5735, 1995.
99. H.D. Yang, H.L. Tsay, C.R. Shih, T.H. Meen and Y.C. Chen, "Magnetic-Field Effect on the Specific Heat of PrBa₂(Cu_{1-x}Ga_x)₃O_{7-δ}," *Physical Review B*, Vol. 52(21), pp. 15099-15402, 1995.
100. H.Z. Chen, T.C. Chow, M.T. Hong, T.L. Lin, K.S. Lin, Y.F. Cheng, Y.C. Chen, and H. Chou, "the Broad Band Optical Detection of a Precipitational Free YBCO Thin Films," *Physica C*, Vol. 274, 1995.
101. Y.C. Chen, C.K. Yang, T.H. Meen and H.D. Yang, "Effect of Ag₂O Addition in Y_{0.9}Ca_{0.1}Ba₂Cu₄O₈ on the Contact Characteristics of Y_{0.9}Ca_{0.1}Ba₂Cu₄O₈/Ag Interface," *Appl. Phys. Lett.*, Vol. 65(26), pp. 3392-3394, 1994.
102. Y. C. Chen, T.H. Meen, H.D. Yang and K.W. Liaw, "Suppression of Superconductivity in R_{0.8}Pr_{0.2}Ba₂Cu₄O₈ System," *Physica B*, Vol. 194-196, pp. 2039-2040, 1994.
103. H. L. Tsay, I.C. Chen, Y.C. Chen and H.D. Yang, "Superconductivity and Normal-State Properties of Y_{1-x}Pr_xSr₂Cu_{2.7}Mo_{0.3}O_{7-*}," *Physica C*, Vol. 235-240, pp. 819-820, 1994.
104. C.R. Shih, T.H. Meen, Y.C. Chen and H.D. Yang, "Calorimetric Studies on the Magnetic Order of Pb₂Sr₂TbCu₃O_{8+*}," *Phys. Rev. B*, Vol. 50(13), pp. 9619-9622, 1994.
105. T.H. Meen, F.L. Juang, Y.C. Chen and H.D. Yang, "Enhancement of Superconductivity in Y(Ba_{1-x}Ca_x)₂Cu₄O₈," *Physica B*, Vol. 194-196, pp. 2061-2062, 1994.
106. Oda, H. Zama, K. Fujii, K. Sakai and Y.C. Chen, "Magnetic Properties of Nonsuperconducting Pb₂Sr₂RCu₃O_{8-y} (R=Y, Pr, Gd and Tb)," *Jpn. J. Appl. Phys. Lett*, Vol. 32(9A), pp. L1225-L1228, 1993.
107. C.Y. Shen, L. Wu and Y.C. Chen, "Effect of additions on Conduction Properties of ZnO Varistors," *Jpn. J. Appl. Phys.*, 32(5A), pp. 2043-2046, 1993.
108. T.H. Meen, Y.C. Chen, K.W. Liaw, F.L. Juang and H.D. Yang, "Substitution Effect of Fe and Zn for Cu in YBa₂(Cu_{1-x}M_x)₄O₈," *Jpn. J. Appl. Phys.*, Vol. 32(10), pp. 4503-4508, 1993.
109. Y.C. Chen, K.K. Chong, T.H. Meen, L. Wu, and M.P. Houn, "Humidity Effect on the High-T_c(Pb,Bi)SrCaCuO Superconductor," *J. Am. Chem. Soc.*, Vol. 74(7), pp. 1710-1714, 1991.
110. Y.C. Chen, C.Y. Shen and L. Wu, "Grain Growth Processes in ZnO Varistors with Various Valence States of Manganese and Cobalt," *J. Appl. Phys*, Vol. 69(12), pp. 8363-8367, 1991.
111. Y.C. Chen, C.Y. Shen, H.Z. Chen, Y.F. Wei and L. Wu, "Grain Growth and Electrical Properties in ZnO Varistors with Various Valence States of Additions," *Jpn. J. Appl. Phys*, Vol. 30, pp. 84-90, 1991.
112. Y.C. Chen, C.Y. Shen, H.Z. Chen, Y.F. Wei and L. Wu, 1992, "The Effects of Process and Valence States of Metal Oxides on Electrical Properties of ZnO Varistors," *J. Mater. Sci.*, Vol. 27, pp. 1397-1403, 1991.
113. Y.C. Chen, C.Y. Shen, H.Z. Chen, Y.F. Wei and L. Wu, "The Effect of Valence States of Manganese on Electrical Properties of ZnO Varistors," *Jpn. J. Appl. Phys*, Vol. 30(8), pp. 1746-1752, 1991.

114. L. Wu, C.Y. Shen, Y.C. Chen, Y.F. Wei, M.H. Chen and K.C. Huang, "The Microstructure of ZnO Varistor Doped with Antimony Oxide," *Jpn. J. Appl. Phys.*, Vol. 30(11A), pp. 2850-2856, 1991.
115. S. Oda, H. Zama, K. Masuda, K. Fujii and Y.C. Chen, "Selflimiting Adsorption of Precursors for Chemical Vapor Deposition of Oxide superconductors," *Physica C*, Vol. 185-189, pp. 2001-2002, 1991.
116. T.H. Meen, Y.C. Chen, M.W. Lin, H.D. Yang and M.F. Tai, "Suppression of superconductivity in YPrBaCuO Prepared by Nitrite Pyrolysis Method," *Jpn. J. Appl. Phys.*, Vol. 31(12A), pp. 3825-3829, 1991.
117. M.T. Hong, Y.C. Chen, C.C. Hsu, W.C. Wu, T.C. Chow and H. Chou, "Optical Detection by a $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_{3-y}$ Thin Film Microbridge," *Jpn. J. Appl. Phys.*, Vol. 40(8A), Aug.
118. C. J. Chung, Y. C. Chen, C. C. Cheng, and K. S. Kao, "An improvement of tilted AlN for shear and longitudinal acoustic wave," *Applied Physics A: Materials Science & Processing*, Mar.
119. W.C. Tzou, C.F. Yang, Y.C. Chen and P.S. Cheng, "Microwave Dielectric Characteristics of $(\text{Bi}_{1-x}\text{Sm}_x)\text{NbO}_4$ Ceramics," *Ceramics International*, Jan.
120. Y.C. Chen, K.K. Chong and T.H. Meen, "Heat Treatment Effect on the Metal Contact of High-Tc $(\text{Pb,Bi})\text{SrCaCuO}$ Superconductor," *Jpn. J. Appl. Phys.*, Vol. 30(1), pp. 33-57, .

會議論文 (Conference Paper)

1. R. C. Lin, Y. C. Chen, C. W. Deng, C. C. Cheng and K. S. Kao, "Influence of postdeposition annealing on the characteristic of ZnO-based FBAR," *The 4th International Conference on Advances of Thin Films and Coatings (Thin Films 2008)*, Singapore, Jun. 2008.
2. C. L. Wei, Y.C. Chen, C. C. Cheng, C. M. Wang, K. S. Kao and P. T. Hsieh, "The Resonance Characteristics of Solidly Mounted Resonators with $1/2 \lambda$ and $1/4 \lambda$ Configurations," *IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society*, Hawaii, May 2008.
3. P. T. Hsieh, Y. C. Chen, K. S. Kao and C. M. Wang, "The effects of homogeneous buffer layer for the fabrication of ZnO nanowires," *IEEE 6th International Symposium on Metallic Multilayers, IEEE MML*, Perth, Australia, Oct. 2007.
4. C. C. Wu, Y. C. Chen, C. F. Yang, C. C. Su, "Study on the chemical and dielectric properties of epoxy/ $(\text{Ba}_{0.8}\text{Sr}_{0.2})(\text{Ti}_{0.9}\text{Zr}_{0.1})\text{O}_3$ composites for embedded capacitor application," *10th International Conference of the European Ceramic Society*, Berlin, Sep. 2007.
5. P. T. Hsieh, Y. C. Chen, K. S. Kao and C. M. Wang, "ZnO Nanorods by Sputtering Technology and Annealing," *The 6th International Conference on Materials Processing for Properties and Performance, MP3*, Beijing, China, Sep. 2007.
6. C. M. Wang, S. Y. Lin, Y. C. Chen and C. Y. Chan, "Dielectric properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ thin films deposited by rf magnetron sputtering," *International Symposium on Industrial Electronics Mechatronics and Applications (ISIEMA)*, pp. 278-282, Kaohsiung, Taiwan, Jun. 2007.

7. R. C. Lin, Y. C. Chen, P. T. Hsieh, K. S. Kao and C. M. Wang, "Effects of Substrate Residue on Frequency Response of High-Tone Bulk Acoustic Resonator," 2007 European Freq. and Time Forum & IEEE Int'l Frequency Control Symposium, 7113, Geneva, Switzerland, May 2007.
8. C.F. Yang, W.K. Chia, Y.C. Chen, C.M. Cheng, "The Influence of Thin Film Thickness on the Characteristics of Bismuth Titanate Oxide," CICC-5, 湖南, 長沙, May 2007.
9. Chien-Min Cheng, Ying-Chung Chen, Cheng-Fu Yang, "Microwave Dielectric Characteristics of $\text{ZnTa}_{2-x}\text{Nb}_x\text{O}_6$ Ceramics," CICC-5, 湖南, 長沙, May 2007.
10. M. C. Kao, H. Z. Chen, S. L. Yang, Y. C. Chen and P. T. Hsieh, "Influence of grain size of ZnO nanocrystalline films for performance of dye-sensitized solar cells," Proceedings of 6th International Conference on New Theories, Discoveries and Applications of Superconductors and Related Materials, Sydney, Australia, Jan. 2007.
11. C. L. Wei, Y. C. Chen, C. J. Chung, K. S. Kao and C. C. Cheng, "Solidly Mounted Resonators Consisted of Molybdenum and Titanium Bragg Reflector," The International Conference on Technological Advances of Thin Films & Surface Coatings, MPF270, Singapore, Dec. 2006.
12. C. J. Chung, Y. C. Chen, C. C. Cheng and K. S. Kao, "Fabrication of Solidly Mounted Resonators with λ Mode Configuration," The International Conference on Technological Advances of Thin Films & Surface Coatings, FPT337, Singapore, Dec. 2006.
13. R. C. Lin, K. S. Kao, C. C. Cheng, C. C. Liu and Y. C. Chen, "Deposition and structural properties of R.F. magnetron sputtered ZnO thin films on Pt/Ti/SiNx/Si substrate for FBAR device," The International Conference on Technological Advances of Thin Films & Surface Coatings, FPT279, Singapore, Dec. 2006.
14. P. T. Hsieh, Y. C. Chen, M. S. Lee, C. M. Wang and M.C.Kao, "Effects of Annealing Process on the Photoluminescence Properties of ZnO Thin Film," Effects of Annealing Process on the Photoluminescence Properties of ZnO Thin Film, Dec. 2006.
15. P. T. Hsieh, Y. C. Chen, K. S. Kao, M. S. Lee and C. C. Cheng, "The Ultraviolet Emission Mechanism of ZnO Thin Film Fabricated by Sol-Gel Technology," Electroceramics X, International Conference on Electroceramics, TTF-P-15, Toledo, Spain, Jul. 2006.
16. C. J. Chung, C. C. Cheng, C. L. Wei, Y. C. Chen, K. S. Kao and C. M. Wang, "The Influence of the Surface Roughness of the Bragg Reflectors on the Resonance Characteristics of Solidly Mounted Resonators," The 23rd Meeting on Ferroelectric Materials and Their Applications, 26-A-6, Kyoto, Japan, May 2006.
17. P. T. Hsieh, K. S. Kao and Y. C. Chen, "Enhanced Green Emission of ZnO Thin Films by Oxygen Plasma Treatment and Annealing," 2006 Symposium on Nano Device Technology, T5-29, Hsinchu, Taiwan, Apr. 2006.
18. P.T. Hsieh, Y.C. Chen and C.C. Hu, "Enhanced Green Luminescence of ZnO Films by Different Sputtering and annealing temperatures," 2nd International Symposium on Point Defect and Nonstoichiometry (ISPN), National Sun Yat-Sen University, Kaohsiung, Taiwan., Oct. 2005.
19. K.H. Chen, Y.C. Chen, S.Y. Lin, C.M. Wang and T.C. Chang, "Thermal Stress Effect on the Ferroelectric Characteristics of BaTiO_3 Thin Films for Nonvolatile Memory Applications," 2nd International Symposium on Point Defect and Nonstoichiometry (ISPN), National Sun Yat-Sen

University, Kaohsiung, Taiwan., Oct. 2005.

20. K.H. Chen, C.F. Yang, Y.C. Chen and T.C. Chang, "Fabrication and Characteristics of Ba(Ti_{0.9}Zr_{0.1})O₃ Thin Films on Glass Substrate," 2nd International Symposium on Point Defect and Nonstoichiometry (ISPN), National Sun Yat-Sen University, Kaohsiung, Taiwan., Oct. 2005.
21. P.T. Hsieh, Y.C. Chen, C.M. Wang, Y.Z. Tsai and C.C. Hu, "Structural and Photoluminescence Characteristics of ZnO Films by Room Temperature Sputtering and Rapid Thermal Annealing Process," 18th Annual Lasers and Electro Optics Society Meeting (LEOS), Hilton Sydney, Sydney, Australia., Oct. 2005.
22. S.S. Jan, Y.C. Chen, J.C. Chou, "Effect of La³⁺-dopant on the characteristics of lead titanate sensing membrane for ion-sensitive field-effect transistor," The 6th East Asia Conference on Chemical Sensors, Guilin, China, Oct. 2005.
23. P.T. Hsieh, C.M. Wang, Y.C. Chen, Y.N. Guo, and C.C. Hu, "Crystallization and Photoluminescence Characteristics of ZnO Thin Films Deposited by rf Magnetron Sputtering," 17th International Symposium on Integrated Ferroelectrics (ISIF), Shang Hai, China, Apr. 2005.
24. K.H. Chen, K.S. Kao, C.C. Cheng, Y.C. Chen and T.C. Chang, "Effects of Laser Annealing on the Electrical Characteristics of (Ba_{0.7}Sr_{0.3})(Ti_{0.9}Zr_{0.1})O₃ Thin Films," 17th International Symposium on Integrated Ferroelectrics (ISIF), Shang Hai, China, Apr. 2005.
25. C.J. Chung, Y.C. Chen, K.S. Kao, C.L. Wei and C.C. Cheng, "The Characteristics of Leaky Surface Acoustic Wave of Proton-Exchanged Lithium Tantalite," 14th IEEE International Symposium Applications of Ferroelectrics, Montreal, Canada., Sep. 2004.
26. C.C. Cheng, C.J. Chung, K.S. Kao and Y.C. Chen, "Temperature Effect on the Characteristics of Surface Acoustic Wave on SiO₂ Thin Films," 14th IEEE International Symposium Applications of Ferroelectrics, Montreal, Canada., Sep. 2004.
27. K.S. Kao, T.F. Ou, Y.C. Chen and T.K. Shing, "The Influences of Varied Sputtering Conditions on the Piezoelectric Coefficients of AlN Thin Films," 14th IEEE International Symposium Applications of Ferroelectrics, Montreal, Canada., Sep. 2004.
28. C.M. Chen, C.C. Chan, C.F. Yang and Y.C. Chen, "The Sintering and Microwave Dielectric Characteristics of MgTa_{1.5}Nb_{0.5}O₆ Ceramics," 9th International Conference on Electroceramics & their Applications (Electroceramics IX), Cherbourg, France., Aug. 2004.
29. Y.C. Chen, S.S. Jan, and J.C. Chou, "Effect of Mg²⁺-dopant on the characteristics of lead titanate sensing membrane for ion-sensitive field-effect transistors," Proceedings of the 10th International Meeting on Chemical Sensors (IMCS10), Japanese, Kyoto., Jan. 2004.
30. M.C. Kao, Y.C. Chen, C.M. Wang and H.Z. Chen, "LiTaO₃ Thin Films Prepared by a Diol-Based Sol-Gel Process and Crystallized by Conventional and RTA Processes," proceedings of the European Meeting on Ferroelectrics (EMF2003), Cambridge, United Kingdom, August 3-8, Aug. 2003.
31. K. S. Kao, C. J. Chung, Y. C. Chen and C. C. Cheng, "Phase Tunable SAW Device on LiNbO₃ Substrate," Proc. 2003 European Meeting on Ferroelectrics (EMF2003), p.9146, Cambridge,

United Kingdom., Aug. 2003.

32. C.C. Cheng, K.S. Kao, Y.C. Chen and C.J. Chung, "Temperature Coefficient of SAW Device on SiO₂/Proton Exchanged LiNbO₃ Substrate," Proc. 2003 European Meeting on Ferroelectrics (EMF2003), p.9148, Cambridge, United Kingdom, Aug. 2003.
33. M.C. Kao, Y.C. Chen, H.Z. Chen, C.M. Wang, and Y.J. Li, "Leakage Current Mechanisms in Rapid Thermal Annealed LiTaO₃ Thin Films Prepared by a Diol-Based Sol-Gel Method," proceedings of the European Meeting on Ferroelectrics (EMF2003), Cambridge, United Kingdom, August 3-8, Aug. 2003.
34. K.H. Chen, Y.Z. Tsai, Y.C. Chen and C.J. Wang, "Dielectric and Electrical Characteristics of the Barium Strontium Titanate Zirconium Thin Film by RF Sputtering," Proc. 2003 European Meeting on Ferroelectrics (EMF2003), , Cambridge, United Kingdom, Aug. 2003.
35. M.C. Kao, H.Z. Chen, C.M. Wang and Y.C. Chen, "Pyroelectric Properties of Sol-Gel Derived Lithium Tantalite Thin Films," Proceedings of the 23rd International Conference on Low Temperature Physics, Hiroshima, Japan, August 20- 27 (2002), Aug. 2002.
36. M.C. Kao, C.M. Wang and Y.C. Chen, "Thickness-Dependent Leakage Current of (PVDF/PbTiO₃) Pyroelectric Bilayer Thin Film Detectors," Proceedings of International Joint Conference on the Applications of Ferroelectrics 2002 (ISAF 2002), Nara, Japan, Jun. 2002.
37. C.M. Wang, M.C. Kao and Y.C. Chen, "Preparation and Electrical Property of β -PVDF/PbTiO₃ Thin Films," Proceedings of International Joint Conference on the Applications of Ferroelectrics 2002 (ISAF 2002), Nara, Japan, Jun. 2002.
38. K. S. Kao, C. C. Cheng, Y. C. Chen and C. H. Chen, "Surface Acoustic Wave Bandpass Filters Properties of AlN Thin Films Sputtered on LiNbO₃ Substrates," Proc. IEEE Intl. Joint Conference on Applications of Ferroelectrics, Nara, Japan, Jan. 2002.
39. K. S. Kao, C. C. Cheng, Y. C. Chen and Y. H. Lee, "Temperature Coefficients of SAW Velocity for AlN Thin Film Sputtered on ST-X Quartz," Proc. 2002 IEEE Ultrasonic Symp., Munich, Germany, Jan. 2002.
40. Y.C. Chen, J.L. Chiang, J.C. Chou and C.C. Cheng, "Photoelectric Characteristics of pH-ISFET Based on AlN/SiO₂ Insulator Gate," Proc. of the 5th East Asian Conference on Chemical Sensors (EACCS-5), Nagasaki, Japan, Jan. 2001.
41. J.L. Chiang, J.C. Chou and Y.C. Chen, "Study on Separative Structure Extended Gate pH-Sensitive Field Effect Transistor Based on WO₃ Thin Film," Proc. of the 5th East Asian Conference on Chemical Sectors (EACCS-5), Nagasaki, Japan, Jan. 2001.
42. C.M. Wang, Y.C. Chen, Y.T. Huang, and M.C. Kao, "Characteristics of Sol-Gel Derived (Pb,Ca)TiO₃ Pyroelectric Thin Films," the International Symposium on Photonics and Applications, Singapore, 1999.
43. C.M. Wang, Y.C. Chen, K.J. Chen, and M.S. Lee, "Growth and Surface Morphology of Porous Silver Black Layer," the 4th East Asian Conference on Chemical Sensors, 1999.
44. C.M. Wang, Y.C. Chen, Y.T. Huang, and M.C. Kao, "Characteristics of Sol-Gel Derived (Pb,Ca)TiO₃ Pyroelectric Thin Films," the International Symposium on Photonics and Applications, Singapore, 1999.

45. H.L. Tsay, S.J. Chen, C.F. Chang, S.S. Weng, S.-C Lai, Y.C. Chen, and H.D. Yang, "Magnetic field and pressure effects on the T_c and T_N in $TbSr_2Cu_{2.7}Mo_{0.3}O_{7-8}$," Proceeding of the 1998 Annual Conference of the Chinese Society for Physics, 1998.
46. C.M. Wang, M.S. Lee, J.W. Wu, C.C. Chiou, P.S. Cheng, and Y.C. Chen, "The Properties of Sol-Gel Derived PLT Thin Films," Proceedings of the 1997 Annual Conference of the Chinese Society for Materials Science, pp. 5-10, 1997.
47. E.K. Lai, C.C. Cheng, W.R. Che, S.C. Lin, P.S. Cheng, and Y.C. Chen, "Growth of AlN Thin Films by Reactive RF Magnetron Sputtering and the Application to Surface Acoustic Wave Devices," *ibid*, pp. 104-107, 1997.
48. H. Chou, H.Z. Chen, T.C. Chow, M.T. Hong, Y.F. Cheng, T.L. Lin and Y.C. Chen, "Annual Conference of the Chinese Society for Phys," 1996 International Conference on Materials Research Society in U.S.A., 1996.
49. T.C. Chow, H.Z. Chen, Y.F. Cheng, T.L. Lin and Y.C. Chen, "The Flux-Proton Interaction in a Josephson Tunneling Junction!," 1996 International Conference on Materials Research Society in U.S.A, 1996.
50. H.Z. Chen, H. Chou, M.T. Hong and Y.C. Chen, "Application of $YBa_2Cu_3O_{7-x}$ Thin Film on the Infrared Detector," 1995 Annual Conf. of the Chinese Soc. for Phys, 1995.
51. H.Z. Chen, H. Chou, T.C. Chow, M.T. Hong, Y.F. Cheng, T.L. Lin and Y.C. Chen, "various Wavelengths Optical Response of YBCO Films at 77K", " , 1995.
52. T.C Chow, H. Chou, Y.F. Cheng, T.L. Lin and Y.C. Chen,, "The Bolometric and Nonbolometric Effect in a YBCO Josephson Tunneling Junction", " , 1995.
53. H.Z. Chen, Y.C. Chen, M.T. Hong, Y.F. Zheng, C.L. Lin and H. Chou,, "The Studies of $YBa_2Cu_3O_{7-x}$ thin film on the optical detector," 1995 Annual Conference of the Chinese Society for Materials Science., 1995.
54. H. Chou, H.Z. Chen, M.T. Hong, T.C. Chow and Y.C. Chen, "High Responsivity Bolometric Light Dectector by Precipitation Free YBCO Films at 77.35K," High Responsivity Bolometric Light Dectector by Precipitation Free YBCO Films at 77.35K, 1995.
55. C.C. Cheng and Y.C. Chen,, "1995, "Properties of Surface Acoustic Wave on Proton-Exchanged $LiNbO_3$," Proceedings of 1995 National Electronic Devices and Materials Symposium,, pp. 553-558, 1995.
56. C.C. Cheng, H.J. Wang, W.R. Chen and Y.C. Chen,, "C-Axis Oriented AlN Thin Films Grown by Reactive RF Magnetron Sputtering", "Proceedings of 1995 National Electronic Devices and Materials Symposium, pp. 553-558., pp. 390-395, 1995.
57. K.H. Chen, Y.C. Chen, C.H. Chang and C.J. Wang, "The electrical characteristics of the $(Ba_{0.7}Sr_{0.3})(Ti_{0.9}Zr_{0.1})O_3$ thin film using oxygen plasma surface treatment," 14th IEEE International Symposium Applications of Ferroelectrics, Montreal, Canada., Sep. .