

1. C.H. Lai, C.Y. Liu and T.Y. Tseng, "Conduction behavior of V-SrZrO₃ thin film showing resistive switching," *Ferroelectrics* 385, 21-26, **2009**.
2. C.Y. Liu, B.C. Zhuang, C.H. Lai and J.M. Lin, "Parasitic effect of the (Ba,Sr)TiO₃ thin film for tunable microwave device application," *Ferroelectrics* 383, 119-126, **2009**.
3. Y.M. Lee and C.H. Lai, "Preparation and characterization of solid n-TiO₂/p-NiO heterojunction electrodes for all-solid-state dye-sensitized solar cells," *Solid-State Electronics*, 53(10), 1116-1125, **2009**.
4. C.H. Lai, Y.Y. Zhuang, C.H. Hsu and Y.M. Lee, "Equivalent circuit analysis of V-SrZrO₃ sputter-deposited thin films showing resistive switching," *Semiconductor Technology*, pp64-69, **2008**. (電化學協會出版, ISBN 978-988-17408-1-6)
5. C.H. Hsu, H.H. Tung, C.H. Lai, and M.H. Chung, "Microwave characteristics of ZnO-doped CeO₂ dielectric resonators," *Key Engineering Materials* 368, 188, **2008**.
6. C.H. Lai and T.Y. Tseng, "Preparation and properties of perovskite thin films for resistive nonvolatile memory applications," *Ferroelectrics* 357, 17-27, **2007**.
7. C.H. Lai, C.T. Weng and T.Y. Tseng, "The Effects of Nd₂O₃ additives and Al₂O₃-SiO₂-TiO₂ sintering aids on the electrical resistivity of (Ba,Sr)TiO₃ PTCR ceramics," *Materials Chemistry and Physics*, 40, 168-172, 1995.
8. C.H. Lai and T.Y. Tseng, "Investigation of resistivity and permittivity for (Ba,Pb)TiO₃ PTCT ceramics," *J. Am. Ceram. Soc.*, 77(9), 2419-2424, 1994.
9. C.H. Lai and T.Y. Tseng, "Analysis of the ac electrical response for (Ba,Pb)TiO₃ positive temperature coefficient ceramics," *IEEE Trans. Comp. Hybrids, Manuf. Technol.*, Vol. CPMT (part-A), 17(2),309-315, 1994.
10. Y.Y. Lu, C.H. Lai and T.Y. Tseng, "Effect of soaking time on the temperature coefficient of resistivity of semiconductive barium titanate PTCR ceramics," *J. Am. Ceram. Soc.*, 77(9), 2461-2464, 1994.
11. Y.Y. Lu, C.H. Lai and T.Y. Tseng, "Influence of sintering profile on the resistivity of low-curie-point PTCR ceramics," *Materials Letters*, 17, 141-145, 1993.
12. C.H. Lai, Y.Y. Lu and T.Y. Tseng, "Calculations and modeling of grain-boundary acceptor states for (Ba,Pb)TiO₃ positive temperature coefficient ceramics," *J. Appl. Phys.*, 74(5), 3383-3388, 1993.
13. C.H. Lai and T.Y. Tseng, "Preparation and ac electrical analysis for (Ba,Pb)TiO₃ PTCR ceramics," *J. Am. Ceram. Soc.*, 76(3), 781-784, 1993.

1. C.H. Lai, C.W. Chang and T.Y. Tseng, "Size-dependent field emission characteristics of ZnO nanowires grown by porous anodic aluminum oxide templates assistance," *International Thin Films Conference (TACT 2009) B048*, Dec. **2009**.
2. C.H. Lai, C.Y. Liu and Y.M. Lee, "Investigation of the turn-on voltage for thermally grown NiO resistive-switching thin film," *International Thin Films Conference (TACT 2009) C062*, Dec. **2009**.

3. Y.M. Lee, W.M. Nung, C.H. Lai and H.W. Chen, "Growth and characterization of one-dimensional ZnO nanorod arrays by chemical bath method," International Thin Films Conference (TACT 2009) C076-P, Dec. **2009**.
4. C.H. Lai, C.Y. Liu and T.Y. Tseng, "Conduction behavior of V-SrZrO₃ thin film showing resistive switching," the 6th Asian Meeting on Ferroelectrics (AMF-6) P5-2-10, Aug. **2008**.
5. C.Y. Liu, B.C. Zhuang, C.H. Lai and J.M. Lin, "Parasitic effect of the (Ba,Sr)TiO₃ thin film for tunable microwave device application," AMF-6 P3-3-02, Aug. **2008**.
6. C.H. Lai, Y.Y. Zhuang, C.H. Hsu and Y.M. Lee, "Equivalent circuit analysis of V-SrZrO₃ sputter-deposited thin films showing resistive switching," the 7th International Semiconductor Technology Conference (ISTC) A-17, ECS-China, **2008**.
7. C.H. Hsu, C.H. Lai, Y.M. Lee, C.Y. Tseng and C.Y. Chung, "Characterization of ZnO-doped Zr_{0.8}Sn_{0.2}TiO₄ dielectric thin films by sol-gel method," ISTC D-26, ECS-China, **2008**.
8. Y.M. Lee, C.H. Lai, C.H. Hsu and Y. Wu, "Effect of Si/SiO₂ interface properties and trap generation on electrical performance and TDDDB reliability for ultrathin oxide/nitride gate dielectric stacks," ISTC A-16, ECS-China, **2008**.
9. C.H. Lai, C.Y. Liu, C.H. Hsu and T.Y. Tseng, "Resistive switching behavior in V-SrZrO₃ sputter-deposited thin films," the International Conference on Metallurgical Coatings and Thin Films (ICMCTF) FP-2, **2007**.
10. C.H. Hsu, H.H. Tung, C.H. Lai and M.H. Chung, "Microwave characteristics of ZnO-doped CeO₂ dielectric resonators," the Fifth China International Conference on High-Performance Ceramic (CICC-5) **2007**.
11. C.H. Lai and T.Y. Tseng, "Preparation and properties of perovskite thin films for resistive nonvolatile memory applications," the 5th Asian Meeting on Ferroelectrics (AMF-5), Sep. **2006**.
12. C.Y. Chung, C.H. Hsu, P.C. Yao, C.H. Lai, and Y.H. Wu, "Heat treatment effects on physical properties of sol-gel derived nano-particle ZnO-doped Zr_{0.8}Sn_{0.2}TiO₄ dielectric thin films," International Electron Devices and Materials Symposia (IEDMS) B, 87 **2006**.
13. Y.C. Tzeng, K.T. Fan, C.H. Lai, and H.C. Chen, "Retrieval of component parameters using a dynamic learning neural network," Progress In Electromagnetics Research Symposium, (PIERS'95), July 24-28, Seattle, Washington, USA, pp.280, 1995.
14. Y.C. Tzeng, K.T. Fan, C.H. Lai, H.C. Chen, D.C. Li and C.Y. Sun, "Neural network approach to component parameters retrieval," 1995 National Electron Devices and Materials Symposium, July 6-7, Kaohsiung, Taiwan, ROC, pp.477-482, 1995.

Submitted or in revision

1. C.H. Lai,

專書與其他

1. Ta2O5 電子期刊...好像有兩篇？
2. 賴俊宏 譯，「電子儀表與量測技術」，全華科技圖書出版，書號：02611。