

博士候選人資料

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學歷：

國立交通大學電子研究所博士班 民國 90 年 2 月~
國立交通大學電子研究所碩士班 民國 88 年 9 月~民國 90 年 1 月
(民國 90 年 2 月逕讀博士班)
私立逢甲大學電子工程學系 民國 84 年 9 月~民國 88 年 6 月



博士論文題目：

鐵電薄膜電滯曲線之新型態量測方法與逐層結晶之 金屬/鐵電/絕緣/半導
結構之特性研究

New Methods for Measuring Hysteresis Loops of Ferroelectric Thin Film
and Characteristics of Layer-by-Layer Crystallized Metal/
Ferroelectric/Insulator/Semiconductor (MFIS) structure

Publication List

Journals:

1. **Ding-Yeong Wang**, Chao-Hsin Chien, Chun-Yen Chang, Ching-Chich Leu, Jung-Yen Yang, "Low-Pressure Crystallization of Sol-Gel-Derived $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ Thin Films at Low Temperature for Low-Voltage Operation", *Jpn. J. Appl. Phys.*, **Vol. 42**, No. 5A, pp. 2756-2758, 2003.
2. **Ding-Yeong Wang** and Chun-Yen Chang, "Direct Measurement of Electrical Hysteresis of Micron-Sized $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ Capacitors using the Constant Current Method", *Jpn. J. Appl. Phys.*, **Vol. 43**, No. 7A, pp. 4263-4266 (2004)
3. **Ding-Yeong Wang** and Chun-Yen Chang, "Triangular Current: Method for Measuring Hysteresis Loops of Ferroelectric Capacitors", *Jpn. J. Appl. Phys.*, **Vol. 43**, No. 9A, pp. 6225-6228, 2004.
4. **Ding-Yeong Wang** and Chun-Yen Chang, "Switching Current Study: Hysteresis Measurement of Ferroelectric Capacitors using Current-Voltage Measurement Method", *Jpn. J. Appl. Phys.*, **Vol. 44**, No. 4A, pp. 1857-1861, 2005.
5. **Ding-Yeong Wang** and Chun-Yen Chang, "Basic Characteristics of $\text{Pt}/\text{SrBi}_2\text{Ta}_2\text{O}_9/\text{HfO}_2/\text{Si}$ Structure using Layer-By-Layer Crystallization", accepted for publication in *J. Electrochemical Society*.

Letters:

1. Chao-Hsin Chien, **Ding-Yeong Wang**, Ming-Jui Yang, Peer Lehnen, Ching-Chich Leu, Shiow-Huey Chuang, Tiao-Yuan Huang, Chun-Yen Chang, "High-performance $\text{Pt}/\text{SrBi}_2\text{Ta}_2\text{O}_9/\text{HfO}_2/\text{Si}$ structure for nondestructive readout memory", *IEEE Electron Device Letters*, **vol.24**, No. 9, pp.553-555, 2003.

Conference:

1. **Ding-Yeong Wang**, Chao-Hsin Chien, Ming-Jui Yang, Peer Lehnen, Ching-Chich Leu, Shiow-Huey Chuang, Tiao-Yuan Huang, Chun-Yen Chang, "High-performance $\text{Pt}/\text{SrBi}_2\text{Ta}_2\text{O}_9/\text{HfO}_2/\text{Si}$ Structure for 1T Ferroelectric Random Access Memory", *Extended Abstracts of the 2003 International Conference on SSdm, Tokyo, 2003*, pp.648-649.