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碩士論文題目：

氧化鋅奈米線之製備與特性研究

Synthesis and Characterization of the Zinc Oxide Nanowires

博士論文題目：

一維奈米材料之特性及應用研究

Characteristics and Applications of One Dimensional Nanomaterials



Publication List

Journal Papers

1. **Chia Ying Lee**, Seu Yi Li, Pang Lin, and Tseung Yuen Tseng, “Field Emission Triode of Low Temperature Synthesized ZnO Nanowires”, *IEEE trans. on Nanotechnology*, **5**, 216 (2006).
2. **Chia Ying Lee**, Seu Yi Li, Pang Lin, and Tseung Yuen Tseng, “Effect of Phosphorus Dopant on Photoluminescence and Field Emission Characteristics of $Mg_{0.1}Zn_{0.9}O$ Nanowires”, *J. Appl. Phys.*, **99**, 024303 (2006).
3. **Chia Ying Lee**, Tseung Yuen Tseng, Seu Yi Li and Pang Lin, “Electrical Characterizations of Controllable Field Emission Triode Based on Low Temperature Synthesized ZnO Nanowires”, *Nanotechnology*, **17**, 83 (2006).
4. **Chia Ying Lee**, Seu Yi Li, Pang Lin, and Tseung Yuen Tseng, “ZnO Nanowires Hydrothermally Grown on PET Polymer Substrates and Their Characteristics”, *J. of Nanoscience and Nanotechnology*, **5**, 1088 (2005).
5. **Chia Ying Lee**, Seu Yi Li, Pang Lin, and Tseung Yuen Tseng, “Single Crystalline $Mg_xZn_{1-x}O$ ($0 \leq x \leq 0.25$) Nanowires on Glass Substrates by a Hydrothermal Method: Growth, Structure and Electrical Characteristics”, *Nanotechnology*, **16**, 1105 (2005).
6. **Chia Ying Lee**, Huei Mei Tsai, Huey Jan Chuang, Seu Yi Li, Pang Lin and Tseung Yuen Tseng, “Characteristics and Electrochemical Performance of Supercapacitors with Manganese Oxide-Carbon Nanotube Nanocomposite Electrodes”, *J. of Elec. Chem. Soc.*, **152**, A716 (2005).
7. **Chia Ying Lee**, Tseung Yuen Tseng, Seu Yi Li, and Pang Lin, “Growth of Zinc Oxide Nanowires on Silicon (100)”, *Tamkang J. of Sci. and Eng.*, **6**, 127, (2003).
8. Seu Yi Li, **Chia Ying Lee**, Pang Lin, and Tseung Yuen Tseng, “The Gate Controlled ZnO Nanowires Field Emission Devices Characteristics”, *J. of Vacuum Science & Technology B*, **24**, 147 (2006).
9. Seu Yi Li, **Chia Ying Lee**, Pang Lin, and Tseung Yuen Tseng, “Low Temperature Synthesized Sn Doped Indium Oxide Nanowires”, *Nanotechnology*, **16**, 451, (2005).
10. Seu Yi Li, Pang Lin, **Chia Ying Lee**, and Tseung Yuen Tseng, “Field emission and photofluorescent characteristics of zinc oxide nanowires synthesized by a metal catalyzed vapor-liquid-solid process”, *J. Appl. Phys.*, **95**, 3711, (2004).
11. Seu Yi Li, Pang Lin, **Chia Ying Lee**, Mon Shu Ho, and Tseung Yuen Tseng, “Fabrication of vertical ZnO nanowires on silicon (100) with epitaxial ZnO buffer layer”, *J. of Nanoscience and Nanotechnology*, **4**, 968, (2004).
12. Seu Yi Li, Pang Lin, **Chia Ying Lee**, Tseung Yuen Tseng, and Chorng Jye Huang,

“Effect of Sn dopant on the properties of ZnO nanowires”, *J. of Phys. D: Appl. Phys.*, **37**, 2274, (2004).

13. Seu Yi Li, Pang Lin, **Chia Ying Lee**, and Tseung Yuen Tseng, “Effect of atmosphere on growth of single crystal zinc oxide nanowires”, *J. of Mater. Sci.: Mater. in Electronics*, **15**, 505, (2004).

14. Seu Yi Li, **Chia Ying Lee**, and Tseung Yuen Tseng, “Copper-catalyzed ZnO nanowires on silicon (100) grown by vapor-liquid-solid process”, *J. of Cryst. Growth*, **247**, 357, (2003).

Conference

1. **Chia Ying Lee**, Tseung Yuen Tseng, Seu Yi Li, and Pang Lin, ” Field Emission Triode Based on Low Temperature Synthesized ZnO Nanowires”, Physics 2006, (2006).

2. **Chia Ying Lee**, Seu Yi Li, Pang Lin, and Tseung Yuen Tseng, ”Field Emission Characteristics of ZnO Nanowires Hydrothermally Grown on Polymer Substrates”, Chinese Material Science Society (2005).

3. **Chia Ying Lee**, Seu Yi Li, Pang Lin and Tseung Yuen Tseng, “Electrochemical Characteristics of Supercapacitors with Manganese Oxide-Carbon Nanotube Nanocomposite Electrodes”, Taiwan Nano Tech (2005).

4. Seu Yi Li, **Chia Ying Lee**, Pang Lin, and Tseung Yuen Tseng, “Low Temperature Synthesized Sn Doped Indium Oxide Nanowires”, MRS-2005 Spring (2005).

5. **Chia Ying Lee**, Tseung Yuen Tseng, Seu Yi Li, and Pang Lin, “Electrochemical Characteristics of Supercapacitor with Manganese Oxide-Carbon Nanotube Nanocomposite Electrodes”, MRS-2005 Spring (2005).

6. **Chia Ying Lee**, Seu Yi Li, Tseung Yuen Tseng, and Pang Lin, “Field Emission Triode of Low Temperature Synthesized ZnO Nanowires“, 2th Nano Devices and System Integrated, NDSI 2005, IEEE Proceeding, (2005).

7. Seu Yi Li, **Chia Ying Lee**, Pang Lin, Tseung Yuen Tseng, and Chorng Jye Huang, “Effect of The Properties of Sn Doped ZnO Nanowires”, The International Conference in Asia, IUMRS-ICA 2004, (2004).

8. **Chia Ying Lee**, Tseung Yuen Tseng, Seu Yi Li, and Pang Lin, “Synthesis and Characterization of ZnO nanowires”, IUMRS-IES 2004 spring meeting, (2004).

9. Seu Yi Li, **Chia Ying Lee**, Pang Lin, and Tseung Yuen Tseng, “Fabrication and Properties of ZnO nanowires”, The 3rd Cross-Strait Workshop on "Nano Science and Technology", CSWNST-3, (2004).

10. Seu Yi Li, **Chia Ying Lee**, Pang Lin, and Tseung Yuen Tseng, “Atmosphere Effect

on Single Crystal ZnO Nanowires Growth”, The 22th Optical science and surface technology, (2004).

11. **Chia Ying Lee**, Tseung Yuen Tseng, Seu Yi Li, and Pang Lin, ”Characteristics of Pt/Bi_{3.25}La_{0.75}Ti₃O₁₂/TiO₂/Si Structure using TiO₂ as an insulator”, Physics 2004, (2004).

12. Seu Yi Li, **Chia Ying Lee**, Pang Lin, and Tseung Yuen Tseng, “The Synthesis of ZnO Nanowires”, 2003 The Chinese Ceramic Society Meeting, (2003).

Local paper

1. 李思毅, **李佳穎**, 曾俊元, “奈米材料的製程及其潛在的應用”, 物理雙月刊 26 卷三期, (2004).

Patent

1. 李佳穎, 曾俊元, 李思毅, 林鵬, “閘極控制場發射三極元件之低溫製程”, 中華民國專利(申請中).

