

# 제20회 한국반도체학술대회

2013년 2월 4일(월)~6일(수) / 웰리힐리파크 (구, 성우리조트)

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## D. Thin Film Process Technology 분과

Room E

스타홀 (본관, 2층)

2013년 2월 5일(화) 10:55-12:10

[TE2-D] Functional thin film technology

좌장: 윤성민(경희대학교)

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| TE2-D-1 | 10:55-11:10 | <b>The Effects of Grain Size on the Electrical Properties of Ferroelectric <math>\text{Hf}_{1-x}\text{Zr}_x\text{O}_2</math> Thin Films</b><br>Min Hyuk Park, Han Joon Kim, Yu Jin Kim, Hyo Kyeom Kim, Woongkyu Lee, Il-Hyuk Yu, and Cheol Seong Hwang<br>Department of Material Science & Engineering and Inter-university Semiconductor Research Center, Seoul National University   |
| TE2-D-2 | 11:10-11:25 | <b>The Observation of Negative Capacitance at Room Temperature from Switching Domains of Ferroelectric Thin Films</b><br>김유진, 박민혁, 정형석, 김한준, 황철성<br>서울대학교 재료공학부 WCU Hybrid Material Program, 서울대학교 반도체 공동 연구소  |
| TE2-D-3 | 11:25-11:40 | <b>Enhancement Ferroelectric Properties of PVDF-TrFE on Graphene Electrode</b><br>강수철 <sup>1</sup> , 양진호 <sup>1</sup> , 황현준 <sup>1</sup> , 이병훈 <sup>1,2</sup><br><sup>1</sup> 광주과학기술원 신소재공학부,<br><sup>2</sup> 광주과학기술원 나노바이오 전자재료공학과  |
| TE2-D-4 | 11:40-11:55 | <b>EOT Scaling under 4.0Å with TiO<sub>2</sub> and Al-doped TiO<sub>2</sub> Film</b><br>Woojin Jeon, Woongkyu Lee, Yeon Woo Yoo, and Cheol Seong Hwang<br>Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University  |
| TE2-D-5 | 11:55-12:10 | <b>Atomic Layer Deposition Characteristics of <math>(\text{GeTe}_2)_{(1-x)}(\text{Sb}_2\text{Te}_3)_x</math> Layers for Phase Change Memories</b><br>Taeyong Eom <sup>1</sup> , Taehong Gwon <sup>1</sup> , Sijung Yoo <sup>1</sup> , Seol Choi <sup>1</sup> , Byung Joon Choi <sup>1</sup> , Moo-sung Kim <sup>2</sup> , Iain Buchanan <sup>3</sup> , Manchao Xiao <sup>3</sup> , and Cheol Seong Hwang <sup>1</sup><br><sup>1</sup> WCU Hybrid Material Program, Department of Materials Science and Engineering, and Inter-university Semiconductor Research Center, Seoul National University, <sup>2</sup> Air Products Korea Inc., <sup>3</sup> Air Products and Chemicals, Inc. |