

# 제23회 한국반도체학술대회

2016년 2월 22일(월)-24일(수), 강원도 하이원리조트

## J. Nano-Science & Technology 분과

Room H  
육백 I (6층)

2016년 2월 24일(수) 10:10-11:40

[WH2-J] Two-Dimensional Materials / Spintronics

좌장 : 김근수(포항공과대학교)

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| WH2-J-1 | 10:10-10:40 | <b>[초청] Ionic Liquid Gated Field Effect Transistors based on Atomically Thin Transition Metal Dichalcogenides Crystals</b><br>Sanghyun Jo, Davide Costanzo, Helmuth Berger, and Alberto F. Morpurgo<br><i>Department of Quantum Matter Physics and Group of Applied Physics, University of Geneva, Switzerland</i>   |
| WH2-J-2 | 10:40-10:55 | <b>Method To Eliminate Gate and Drain Bias Stress in WSe<sub>2</sub> Field Effect Transistors with Single Channel Pulsed I-V Measurement</b><br>Jun-Mo Park, In-Tak Cho, Won-Mook Kang, Byung-Gook Park, and Jong-Ho Lee<br><i>Department of Electrical and Computer Engineering, Seoul National University</i>  |
| WH2-J-3 | 10:55-11:10 | <b>그래핀 RF 소자의 Drain-gate Coupling에 의한 다중 신호 공진 현상</b><br>이상경 <sup>1,2</sup> , 조천흠 <sup>1,3</sup> , 유태진 <sup>1,2</sup> , 이호인 <sup>1,2</sup> , A. N. R. Reza <sup>1,2</sup> , 이병훈 <sup>1,2,3</sup><br><sup>1</sup> 미래전자소자 연구센터, <sup>2</sup> 광주과학기술원 신소재공학부, <sup>3</sup> 광주과학기술원 나노바이오재료전자공학과   |
| WH2-J-4 | 11:10-11:25 | <b>Low Current Switching Induced by Large Spin Orbit Torque of Tungsten</b><br>Seung-heon Chris Baek <sup>1,2</sup> , Kyung-Woong Park <sup>1</sup> , and Byong-Guk Park <sup>1</sup><br><sup>1</sup> Department of Materials Science and Engineering, KAIST,<br><sup>2</sup> Department of Electrical Engineering, KAIST  |
| WH2-J-5 | 11:25-11:40 | <b>Electric Field Induced Magnetic Anisotropy Control with Magnetic Tunnel Junction Structures</b><br>Kyung-Woong Park <sup>1,2</sup> , Seung-Heon Chris Baek <sup>1</sup> , Dae-Hoon Kim <sup>1</sup> , Soo-Man Seo <sup>2</sup> , Sung-Woong Chung <sup>2</sup> , and Byong-Guk Park <sup>1</sup><br><sup>1</sup> Department of Materials and Science and Engineering, KAIST,<br><sup>2</sup> Research and Development Division, SK hynix Inc. |