

제22회 한국반도체학술대회

2015년 2월 10일(화) - 12일(목), 인천 송도컨벤시아

C. Materials Growth & Characterization 분과

Room H
1F / 110호

2015년 2월 12일(목) 09:00-10:45

[TH1-C] Growth and Characterization of Graphene/Nitrides

좌장: 송진동 (KIST), 권순용 (UNIST)

- TH1-C-1 09:00-09:15 Physical Synthesis of Monolithic Graphene Oxide Sheets with Tunable Composition**
- Jae Hwan Chu¹, Jinsung Kwak¹, Sung-Dae Kim^{2,6}, Mi Jin Lee¹, Jong Jin Kim³, Soon-Dong Park¹, Jae-Kyung Choi¹, Gyeong Hee Ryu¹, Kibog Park^{4,5}, Sung Youb Kim^{1,5}, Ji Hyun Kim³, Zonghoon Lee^{1,5}, Young-Woon Kim², and Soon-Yong Kwon^{1,5}
- ¹School of Mechanical and Advanced Materials Engineering, Ulsan National Institute of Science and Technology (UNIST), ²Department of Materials Science and Engineering, Seoul National University, ³Interdisciplinary School of Green Energy, Ulsan National Institute of Science and Technology (UNIST), ⁴School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology (UNIST), ⁵Opto-Electronics Convergence Group and Low Dimensional Carbon Materials Center, Ulsan National Institute of Science and Technology (UNIST), ⁶Advanced Characterization and Analysis Group, Korea Institute of Materials Science
- TH1-C-2 09:15-09:30 Wrinkle-Free Graphene Grown on Controlled Pt (200, 220) Films and Thermal-Assisted Transfer of Large-Scale Patterned Graphene**
- Jae-Kyung Choi¹, Jinsung Kwak¹, Soon-Dong Park², Hyung Duk Yun¹, Se-Yang Kim¹, Minbok Jung¹, Sung Youb Kim², Kibog Park³, Seoktae Kang⁴, Dong-Yeon Park⁵, Dong-Su Lee⁵, Suk-Kyung Hong⁵, Sung-Dae Kim⁶, Hyung-Joon Shin¹, and Soon-Yong Kwon^{1,2}
- ¹School of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST), ²School of Mechanical and Nuclear Engineering, Ulsan National Institute of Science and Technology (UNIST), ³Department of Physics, Ulsan National Institute of Science and Technology (UNIST), ⁴Department of Civil Engineering, Kyung Hee University, ⁵G-Mek Incorporation, ⁶Advanced Characterization and Analysis Group, Korea Institute of Materials Science
- TH1-C-3 09:30-09:45 Improvement in Electrical Conductivity, Mechanical and, Thermal Stabilities of Graphene/Carbon Nanotube Composite Electrodes with**

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AuCl₃ Doping

Hyung Duk Yun, Jinsung Kwak, Lee Soon Park, and Soon-Yong Kwon
School of Materials Science and Engineering, Ulsan National Institute of
Science and Technology

**TH1-C-4 09:45-10:00 Study on the Resistive Switching Phenomena in AlN and AlxGa1-xN films
Grown by Atomic Layer Deposition**

Daeho Kim and Byung Joon Choi
Department of Materials Science and Engineering, Seoul National University
of Science and Technology

**TH1-C-5 10:00-10:15 Analysis of GaN-based Light-Emitting Diodes Using Near-field Scanning
Optical Microscopy in Various Modes**

Min-Kwan Kim, Chung-Hyun Park, and Yong-Hoon Cho
Department of Physics and Graduate School of Nanoscience & Technology,
KAIST

**TH1-C-6 10:15-10:30 Growth of GaN Layer with Conductive AlxGa_{1-x}N Buffer on SiC Substrate
using Metal Organic Chemical Vapor Deposition**

Byeongchan So, Kyungbae Lee, Kyungjae Lee, Cheon Heo, Jongjin Jang, and
Okhyun Nam
Advanced Photonics Research Center / LED Technology Center, Department
of Nano-Optical Engineering Korea Polytechnic University

**TH1-C-7 10:30-10:45 Crystallographic Study of *m*-Plane GaN Grown on *m*-Plane Sapphire by
Hydride Vapor Phase Epitaxy**

Sangil Lee, Minho Kim, Seohwi Woo, Uiho Choi, Byeongchan So, and
Okhyun Nam
Advanced Photonics Research Center/LED technology center; Department of
Nano-Optical Engineering, Korea Polytechnic University