

제22회 한국반도체학술대회

2015년 2월 10일(화) - 12일(목), 인천 송도컨벤시아

[TP1] 포스터세션 3

Room F

1F / 114+115 호

2015년 2월 12일(목) 10:30-12:10

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- | | | |
|-------|-------------|---|
| TP1-1 | 10:30-12:10 | 반도체소자 배선을 위해 직접전해도금에 의한 구리-은 합금 박막 형성 연구
김강오, 김선정
울산대학교 첨단소재공학부 |
| TP1-2 | 10:30-12:10 | Characterization of Mn-based Self-Forming Barriers on Low-k Samples with or without UV Curing Treatment
Jae-Hyung Park ¹ , Min-Soo Kang ¹ , Dong-Suk Han ¹ , and Jong-Wan Park ²
¹ Division of Nanoscale Semiconductor Engineering, Hanyang University, ² Division of Materials Science & Engineering, Hanyang University |
| TP1-3 | 10:30-12:10 | Atomic Layer Deposition of Mo₂N Thin Film as a Diffusion Barrier against Cu
Yujin Jang ¹ , Sun Ju Lee ² , Teak-Mo Chung ² , Chang Gyoung Kim ² , Tae Eun Hong ³ , and Soo-Hyun Kim ¹
¹ School of Materials Science and Engineering, Yeungnam University, ² Thin Film Materials Group, Korea Research Institute of Chemical Technology, ³ Busan Center, Korea Basic Science Institute |
| TP1-4 | 10:30-12:10 | Atomic Layer Deposition of Ru Thin Films using New Zero Valent Ru Precursors
Min Young Lee ¹ , Seung-Joon Lee ¹ , Seungmin Yeo ¹ , Taehoon Cheon ^{1,2} , Tae Eun Hong ³ , Won Seok Han ⁴ , and Soo-Hyun Kim ¹
¹ School of Materials Science and Engineering, Yeungnam University, ² Center for Core Research Facilities, Deagu Gyeonbuk institute of Science & Technology, ³ Busan Center, Korea Basic Science Institute, ⁴ UP Chemical |
| TP1-5 | 10:30-12:10 | Ultralow Interlayer Dielectrics for the Next Generation System LSI
Sung-Min Cho and Hee-Woo Rhee
Department of Chemical and Biomolecular Engineering, Sogang University |
| TP1-6 | 10:30-12:10 | 다층그래핀 성장과 EM 특성분석
최동철, 윤기호, 윤지수, 정종완
세종대학교 나노신소재공학과 |
| TP1-7 | 10:30-12:10 | Cobalt-based Bi-Functional Layer for Cu Interconnect by Atomic Layer Deposition
Soohyeon Kim ¹ , Jaehong Yoon ¹ , Hyungjun Kim ¹ , and Han-Bo-Ram Lee ²
¹ Department of Electrical and Electronics Engineering, Yonsei University, ² Department of Materials Science and Engineering, Incheon National University |

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- TP1-8 10:30-12:10 TiO₂-SiO₂ Laminated Films Grown by Plasma Enhanced Atomic Layer Deposition.**
SeungJu Chun, Hak-Joo Lee, Dae-Young Ahn, Young-Jae Kim, Seung-Woo Choi, ChoongMan Lee, and Yong-Min Yoo
Process Development Team, R&D center of ASM Genitech Korea
- TP1-9 10:30-12:10 A Study of Current Crowding and its Effects on the Carrier Spill-Over in InGaN/GaN Blue Light Emitting Diodes.**
Hye-Jung YU, Tae-Soo KIM, Nan-Cho OH, and Jung-Hoon SONG
Department of Physics, Kongju National University
- TP1-10 10:30-12:10 Effect of p-AlGa_N Electron Blocking Layer on Efficiency Droop and Identification of the Dominant Mechanism for the Droop in InGaN/GaN MQW LEDs**
Nan-Cho Oh, Hye-Jung Yu, Tae-Soo Kim, and Jung-Hoon Song
Department of Physics, Kongju Nat'l University
- TP1-11 10:30-12:10 Identification Technique of Grain Boundaries in Large-Scale Chemical Vapor Deposited Graphene**
Jong-Young Lee, and Gwan-Hyoung Lee
Department of Materials Science & Engineering, Yonsei University
- TP1-12 10:30-12:10 Theoretical Analysis of Silica Nanosphere Effects on Light Extraction of Light Emitting Diode by FDTD Simulation**
Dong-Su Shin, Taekgon Kim, and Jinsub Park
Department of electronics and computer engineering, Hanyang University
- TP1-13 10:30-12:10 Synthesized ZnSnO₃ Nanoparticles by Reflux Condensation Method and Application to LEDs**
TaekGon Kim, Dong Su Shin and Jinsub Park
Department of Electronic Engineering, Hanyang University
- TP1-14 10:30-12:10 Variation of Electrical Characteristics in AlGa_N/Ga_N Schottky Diode with Graphene/Ni/Au Electrodes via Plasma Treatments**
Yoonhyung Kim and Jinsub Park
Department of Electronics & Computer Engineering, Hanyang University
- TP1-15 10:30-12:10 Correlated Visible-Light Absorption and Intrinsic Magnetism of SrTiO₃ due to Oxygen Deficiency: Bulk or Surface Effect?**
Heechae Choi¹, Jin Dong Song², Kwang-Ryeol Lee¹, and Seungchul Kim¹
¹Center for Computational Science, KIST, ²Center for Opto-electronics Convergence System, KIST
- TP1-16 10:30-12:10 Optimization of Silicon Doped InGaAs Grown by MOCVD for Source/Drain Contact of III-V n-MOSFET**

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Young-Dae Cho^{1,2}, In-Geun Lee^{1,2}, Dong-Hwan Jun², Hyuk-Min Kwon², In-Hye Choi², Chan-Soo Shin², Kyung-Ho Park², Won-Kyu Park², Tae-Woo Kim³, Dae-Hyun Kim³, and Dae-Hong Ko¹

¹Department of Materials Science and Engineering, Yonsei University, ²Korea Advanced Nano Fab Center, ³SEMATECH

- TP1-17 10:30-12:10 CVD Grown MoS₂ Transistors with High-K Dielectrics**
윤지수, 최동철, 윤기호, 정종완
나노신소재공학과, 세종대학교
- TP1-18 10:30-12:10 Effect of Growth Condition on Carbon Concentration of Si_{1-y}Cy Films by UHV-CVD**
Sungyeol Yoon, Youngmo Kim, Kyumin Lee, and Hyunchul Sohn
Department of Materials Science and Engineering, Yonsei University
- TP1-19 10:30-12:10 The Growth of GaSb on Silicon (100) with AlGaSb/GaSb SPS Buffer Layers for Converting from Threading Dislocation to Misfit Dislocation**
Kyu-Hyoek Yoen^{1,2}, Hye-Joung Jang², Eun-Hye Lee², and Jin-Dong Song^{1,2}
¹Nano-electronic Engineering, University of Science & Technology, ²Center for Opto-Electronic Convergence Systems, Korea Institute of Science and Technology
- TP1-20 10:30-12:10 Formation of InGaAs Nanowires on (111) Si for Antireflection**
E. H. Lee^{1,2}, J. D. Song¹, I. K. Han¹, W. J. Choi¹, and S. K. Chang²
¹Center for Opto-Electronic Convergence Systems, Korea Institute of Science and Technology, ²Department of Physics, College of Science, Yonsei University
- TP1-21 10:30-12:10 High Mobility InAs/AlSb 2DEG HEMT on GaAs for SPIN-FET and Effect of p-/n- Doping on InSb/GaAs**
S. H. Shin and J. D. Song
Center for Opto-Electronic Convergence Systems, Korea Institute of Science and Technology
- TP1-22 10:30-12:10 Novel Methodology to Fill Nano-Size Trenches by VS Growth of Te-rich SbTe Nanowires for Three-Dimensional PCRAM Devices**
Jin Hwan Jeong, Si Jung Park, Su Bin An, and Doo Jin Choi
Department of Material Science and Engineering, Yonsei University
- TP1-23 10:30-12:10 The Effects of Plasma Frequency on High-k Film Properties in Plasma Enhanced Atomic Layer Deposition**
Il-Kwon Oh¹, Gilsang Yoo^{1,2}, Changwan Lee¹, Tae Hyung Kim³, Geun Young Yeom³, Hyungjun Kim¹, and Han-Bo-Ram Lee⁴
¹School of Electrical and Electronic Engineering, Yonsei University, ²Samsung Electronics Co., LTD. ³Department of Advanced Materials Engineering, Sungkyunkwan University, ⁴Department of Material Science Engineering, Incheon

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- National University
- TP1-24 10:30-12:10 ALD-like Growth Behavior of Ru Thin Film with RuO₄ Precursor**
Cheol Hyun An, Woojin Jeon, Woongkyu Lee, Min Jung Chung, and Cheol Seong Hwang
Department of material Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University
- TP1-25 10:30-12:10 Comparison of H₂O and O₃ as Oxidant in Atomic Layer Deposition of STO Films**
Min Jung Chung, Woongkyu Lee, Woojin Jeon, Cheol Hyun An, and Cheol Seong Hwang
Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University
- TP1-26 10:30-12:10 Stretchable Thin-Film Transistors Fabricated on Elastomer Substrate**
Soon-Won Jung, Jeong-Seon Choi, Jae Bon Koo, Chan Woo Park, Bock Soon Na, Ji-Young Oh, Sang Seok Lee, and Hye Yong Chu
Information & Communications Core Technology Research Laboratory, Electronics and Telecommunications Research Institute
- TP1-27 10:30-12:10 Simple Control of V_{TH} in a-IGZO TFTs by Rapid Thermal Annealing**
Do-Hoon Kim and Won-Ju Cho
Department of Electronic Materials Engineering, Kwangwoon University
- TP1-28 10:30-12:10 저전력 Barristor 소자 집적 공정 개발과 특성**
장경은, 노진우, 심창후, 김소영, 이병훈
Center for Emerging Electric Devices and Systems, School of Material Science and Engineering, Gwangju Institute of Science and Technology
- TP1-29 10:30-12:10 Investigation on the Effect of Post Deposition Annealing on the Sn-Doped In₂O₃ Thin Film Transistor**
Eun Suk Hwang, Un Ki Kim, Lee, Seung-Jun, Jun Shik Kim, Younjin Jang, and Cheol Seong Hwang
WCU Hybrid Materials Program, Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University
- TP1-30 10:30-12:10 Atomic Layer Deposited WN_x Thin Films using a New F-free Tungsten Metallorganic Precursor as a Diffusion Barrier against Cu**
Junbeom Kim and Soo-Hyun Kim
School of Materials Science and Engineering Yeungnam University
- TP1-31 10:30-12:10 Scavenging of Native Oxide on Semiconductors in Metal-Oxide-Semiconductor with Metal Electrodes**
Taehoon Lee¹, Yong Chan Jung¹, Sejong Seong¹, In-Sung Park^{1,2}, Sung Bo Lee³,

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and Jinho Ahn¹

¹Division of Materials Science and Engineering, Hanyang University, Seoul,

²Institute of Nano Science and Technology, Hanyang University, Seoul,

³Department of Materials Science and Engineering, Seoul National University

- TP1-32 10:30-12:10 The Study on Increment of Non-Lattice Oxygen Defects by O₂/Ar Ratio Variation in Sputtered HfO₂**
Heedo Na, Jinho Oh, Jimin Lee, Kyumin Lee, and Hyunchul Sohn
Department of Materials Science and engineering, Yonsei University
- TP1-33 10:30-12:10 Improved Electrical Performance of Amorphous Oxide TFTs Using Solution-Processed Dual Active Layer Structure**
Jongmin Kim and Byoungdeog Choi
Department of Electrical and Computer Engineering, Sungkyunkwan University
- TP1-34 10:30-12:10 Effect of Ge Doping on Structural and Electrical Properties of Ge-Doped ZrO₂ Films by Atomic Layer Deposition**
Ju-Young Jeong, Jinho Oh, Taeho Kim, Jimin Lee, and Hyunchul Sohn
Department of Materials Science and Engineering, Yonsei University
- TP1-35 10:30-12:10 Comparison of Contact Resistance Properties in Solution Processed IGZO TFTs with Top-Contact and Bottom-Contact S/D Structures**
Ji-Hwan Kim, Eung-Kyu Park, Jin-Ho Kim, Dong-Hoon Lee, and Yong-Sang Kim¹
School of Electronic and Electrical Engineering, Sungkyunkwan University
- TP1-36 10:30-12:10 High quality LT-SiO₂ Film Deposition Process on MAHA PECVD System**
Soyeon Park¹, Yoosung Jang¹, Juho Shin¹, Junkyung Eom¹, Youngsoo Kwon¹, Hyoungchan Ha¹, Xiao Manchao², Mallikarjunan Anupama², and Han Bing²
¹Advanced Development Team, Wonik IPS, ²Air Products and Chemicals, Inc.
- TP1-37 10:30-12:10 Reaction Mechanism Study on Atomic Layer Deposition of Silicon Nitride Films Using Silicon Chlorides and Ammonia**
Jae-Min Park, Luchana L. Yusup, Byeol Han, and Won-Jun Lee
Department of Nanotechnology and Advanced Materials Engineering, Sejong University
- TP1-38 10:30-12:10 Nitride 막의 Anneal 전/후 Stress 변화 개선 연구**
강승현, 송병호, 최영철, 권영수, 하형찬
Department of Advanced Development Team, WONIK IPS
- TP1-39 10:30-12:10 Controlling Structural and Electrical Properties by Dispersing Metallic Nanoparticle into Dielectric Thin Films for ReRAM application**
Jae Ho Lee and Byung Joon Choi
Department of Materials Science and Engineering, Seoul National University of Science and Technology

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- TP1-40 10:30-12:10 Interface Sulfur Passivation using H₂S Pre-Deposition Annealing for Atomic-Layer-Deposited HfO₂ Film on Ge Substrate**
Taejun Seok, Hyunsoo Jin, and Tae Joo Park
Department of Materials Science and Engineering, Hanyang University
- TP1-41 10:30-12:10 Improved Interface Properties of Atomic-Layer-Deposited HfO₂ Film on InP using Interface Sulfur Passivation with H₂S Pre-Deposition Annealing**
Hyunsoo Jin, Taejun Seok, and Tae Joo Park
Department of Materials Science and Engineering, Hanyang University
- TP1-42 10:30-12:10 FinFET의 AC Stress Reliability 특성**
강수철, 이영곤, 김용훈, 정욱진, 박우진, 김윤지, 이병훈
School of Material Science and Engineering, Gwangju Institute of Science and Technology
- TP1-43 10:30-12:10 Effects of Electrostatic Discharges Stress On Bidirectional Flip Chip Transient Voltage Suppression Diodes**
Sakhone Pharkphoumy¹, Daoheung Boungeune², Sang-Sik Choi³, Deok-Ho Cho³, Ceol-Jong Choi¹, and Kyu-Hwan Shim¹
¹School of Semiconductor and Chemical Engineering, Semiconductor Physics Research Center, Chonbuk National University, ²Automation Division, Technology Computer and Electronic Institute, ³R&D Division, Sigetronics, Inc.
- TP1-44 10:30-12:10 ESD Robustness of Bidirectional Flip Chip TVS Diodes**
Sang-Sik Choi¹, Sakhone Pharkphoumy¹, Moon-Ho Lee², Dae-Gi Kim³, Deok-Ho Cho⁴, and Kyu-Hwan Shim¹
¹School of Semiconductor and Chemical Engineering, Semiconductor Physics Research Center, Chonbuk National University, ²The 4th R&D Institute, ³Defence R&D Center, Hanwha Corporation, ⁴R&D Division, Sigetronics, Inc.
- TP1-45 10:30-12:10 Nano Imprint로 형성된 Synaptic 소자 및 Spike Time Dependent Plasticity (STDP) 특성 평가**
Youngin Gil and Changhwan Choi
Division of Materials Science and Engineering, Hanyang University
- TP1-46 10:30-12:10 Investigation of Oxide Layer Appropriate for 3D NAND structure with Vertical Channel Fabricated Using Gate-first Channel-last Process**
Ho-Seung Jeon, Wan-Gyu Lee, and Jeoung Woo Kim
National NanoFab Center
- TP1-47 10:30-12:10 마이크로솔더링을 이용한 자외선 LED 광원모듈 제작**
박종민, 카완 안일, 유순재
Department of Electronic Engineering, Sunmoon University
- TP1-48 10:30-12:10 Controlled Zr Doping for Inkjet-printed ZTO TFTs**

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- Hunho Kim and Woon-Seop Choi
Department of Display Engineering, Hoseo University
- TP1-49 10:30-12:10 XPS analyses of ALD-Prepared Titanium-dioxide Thin Films With Oxygen Sources And Their Annealing Effect**
Woon-Seop Choi
Department of Display Engineering, Hoseo University
- TP1-50 10:30-12:10 Floor Plane Subtraction using Parallel Operation for Indoor Applications**
Geun-Jun Kim, Kyoungsoon Jang, Dae-Sung Choi, and Bongsoon Kang
Department of Electronic Engineering, Dong-A University
- TP1-51 10:30-12:10 Influence on Conduction Band Offset-controlled Dielectric Surface on the Performance of Low-temperature Photochemically-annealed IGZO TFTs**
Jaekyun Kim and Sung Kyu Park
School of Electrical and Electronics Engineering, Chung-Ang University
- TP1-52 10:30-12:10 Structure and Electrical Properties of Nitrogen Doped ZnO Thin Film by Atomic Layer Deposition**
김수현, 편정준, 조철진, 김성근, 김진상
한국과학기술연구원 전자재료연구센터
- TP1-53 10:30-12:10 1-D Fiber-based Thin-Film-Transistors and Their Integration for Large Area 2 or 3-D Applications**
Chang jun Park, Gyeong min Yi, Jae sang Heo, and Sung kyu Park
School of Electrical and Electronics Engineering, Chung-Ang University
- TP1-54 10:30-12:10 Electrochromic Mirror using Viologen-Anchored Nanoparticle**
Han Na Kim^{1,2}, Seong-Mok Cho¹, Chil Seong Ah¹, Juhee Song¹, Hojun Ryu¹, and Tae-Youb Kim^{1,2}
¹ETRI, ²University of Science and Technology
- TP1-55 10:30-12:10 Analysis of Injection Mechanism in Organic Light-Emitting Diodes with Changing Thickness of LiF Interlayer**
Moonsoo Kim and Byoungdeog Choi
Department of Electrical and Computer Engineering, Sungkyunkwan University
- TP1-56 10:30-12:10 A/D converter with Oxide Thin Film Transistor**
Jun Young Hwang, Kyeong Min Yu, Jae-Pyo Lee, and Byung Seong Bae
Department of Display Engineering, Hoseo University
- TP1-57 10:30-12:10 Functionalized Nanoporous Thin Films via Supramoleuclar Assembly of End-Functionalized Polymer Blends**
Giyong Song, Suk Man Cho, Ju Han Lee, and Cheolmin Park
Department of Materials Science and Engineering, Yonsei University
- TP1-58 10:30-12:10 Size-Cntrollable Functionalized Nanoporous Thin Film by Noncovalent**

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Bonding Graft Polymers

Suk Man Cho, Giyoung Song, and Cheolmin Park

Department of Materials Science & Engineering, Yonsei University

TP1-59 10:30-12:10 **Mutual Interaction Observed in Hydrothermal Growth of One-Dimensional ZnO Nanorod Arrays**

Jung Min Lee, Won Woo Lee, Sungwoong Kim, Su Han Kim, and Won Il Park

Division of Materials Science and Engineering, Hanyang University

TP1-60 10:30-12:10 **Quantum Transport Simulation of Spin-Transfer Torque (STT): Nonequilibrium Green's Function Approach**

Seongcheol Noh and Mincheol Shin

Department of Electrical Engineering, KAIST

TP1-61 10:30-12:10 **Al₂O₃ Scaling을 통한 압전 폴리머/그래핀 터치 소자의 Sensitivity 개선 연구**

양진호, 이병훈

School of Material Science and Engineering, Gwangju Institute of Science and Technology

TP1-62 10:30-12:10 **Asymmetric Electrical Characteristics of Graphene-Pentacene-Metal Heterostructure**

Wang-Taek Hwang, Misook Min, Hyunhak Jeong, Dongku Kim, and Takhee Lee

Department of Physics and Astronomy, Seoul National University

TP1-63 10:30-12:10 **Inorganic-based Flexible Electronics for System on Plastic**

Hyeon Gyun Yoo, Seungjun Kim, and Keon Jae Lee

Department of Materials Science and Engineering, KAIST

TP1-64 10:30-12:10 **Uncertainty of Contact Properties between Titanium and Naturally Occurring MoS₂**

Seong Yeoul Kim, Seon Young Park, and Woong Choi

School of Advanced Materials Engineering, Kookmin University

TP1-65 10:30-12:10 **Simple Solution-Processed AC Driven Polymer Electroluminescence Device using Silver Nanoparticles in Hole Injection Layer.**

Ju Han Lee, Sung Hwan Cho, Beom Jin Jeong, Ihn Hwang, and Cheolmin Park

Department of Materials Science and Engineering, Yonsei University

TP1-66 10:30-12:10 **Effect of Channel Length, Thickness and Annealing Temperature on Nanoscale GIZO Thin Film Transistor Performance**

Yogeenth Kumaresan, Yusin Pak, Namsoo Lim, and Gun Young Jung

Gwangju Institute of Science and Technology

TP1-67 10:30-12:10 **Advanced Method for Preparing Silicon Nanopores Array using AAO Stencil and Polymer Interlayer**

Namsoo Lim and Gunyoung Jung

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School of materials Science and Engineering, Gwangju Institute of Science and Technology

TP1-68 10:30-12:10 Inkjet-Printed Source/Drain Contact for Solution-Processed Single-Walled Carbon Nanotube Thin-Film Transistors

Hyeonggyu Kim, Taehoon Kim, Narkhyeon Seong, Jewook Ha, and Yongtaek Hong
Department of Electrical and Computer engineering and Inter-University Semiconductor Research Center (ISRC), Seoul National University

TP1-69 10:30-12:10 Nanoscale Metal Pillar Arrays on Elastomeric Substrates for Surface-enhanced Raman Spectroscopy Platform

Sungwong Kim, Sehyun Park, Sun Sang Kwon, William T. Nichols, and Won Il Park
Division of Materials Science and Engineering, Hanyang University

TP1-70 10:30-12:10 Design of Thin Film Color Filters with Highly Absorbing Dielectrics

Jinha Lim, Hyungi Park, and Young Min Song
Department of Electronic Engineering, Pusan National University

TP1-71 10:30-12:10 Design of Hollow Silica Nanospheres in Antireflection Coating for High Efficiency Optical Devices Applications

Young Jin Yoo and Young Min Song
Pusan National University

TP1-72 10:30-12:10 Colloidal Beads Fabricated Printing and Rubbing Processes for Efficient Light Extraction from Polymer Light-Emitting Diodes

Seunghwan Lee¹, Jongjang Park¹, Jewook Ha¹, Kunsuk Koh², Donghyun Kim¹,
Unyong Jeong², and Yongtaek Hong¹

¹Department of Electrical and Computer Engineering and Inter-University Semiconductor Research Center (ISRC), Seoul National University, ²Department of Materials Science and Engineering, Yonsei University

TP1-73 10:30-12:10 Quantitative Analysis of Scanning Electron Microscope Images by using Monte Carlo Simulation Technique

Myeong Chun Song¹, Sung Hyon Kim¹, Jin Seung Kim¹, and Byong Chon Park²

¹Department of Nano- Science and Technology, Chonbuk National University, ²Korea Research Institute of Standards and Science

TP1-74 10:30-12:10 Wafer Defect Inspection using Component Tree of SEM Images

Sunghyon Kim¹, Minwoo Kim², and Il-seok Oh^{1,2}

¹Department of Nano Technology, Chonbuk National University, ²Department of Computer Engineering Graduate School, Chonbuk National University

TP1-75 10:30-12:10 Dopant Depth Profiling on the Small Pattern by using Nano-SIMS

Mirang Byeon, E. D. Jeong, and T. E. Hong
Busan Center, Korea Basic Science Institute

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- TP1-76 10:30-12:10 Color-Offset Analysis Methods to Enhance the Overlay Control**
Jeongjin Lee, Chan Hwang, Seungyoon Lee, and Gilheyun Choi
Samsung Electronics Co., Ltd.
- TP1-77 10:30-12:10 Fabrication Process of Modified Source Lens Structure for High Resolution Electron Optical Microcolumn**
Anjli Sharma, Young Book Lee, Sung Woong Choi, Hae Sung We, Dae-Wook Kim, Tae-Sik Oh, and Ho-Seob Kim
Department of Physics and Nanoscience, College of Engineering, Sun Moon University
- TP1-78 10:30-12:10 A Nano-Focus X-ray Source using Carbon Nanotube Field Emitters for Semiconductor Inspections**
Yoon-Ho Song^{1, 2}, Jae-Woo Kim^{1,2}, Min-Sik Shin^{1,2}, Hyojin Jeon^{1,2}, Jin-Woo Jeong¹, Jun-Tae Kang¹, Sungyoul Choi¹, Sora Park¹, Young Chul Choi¹, Ji-Hwan Yeon¹, SungHee Kim¹, and Sung-Jun Ahn^{1,3}
¹Nano Electron-Source Creative Research Center, ETRI, ²School of Advanced Device Eng., University of Science & Technology, ³Department of Information Display, Sun Moon University
- TP1-79 10:30-12:10 2D CNT tip을 이용한 초소형 전자칼럼의 전자빔 특성 연구**
이영복, 김형우, 안승준, 김대욱, 오태식, 김호섭
Department of Physics and Nanoscience, College of Engineering, Sun Moon University
- TP1-80 10:30-12:10 전자 빔을 이용한 미세 오정렬 계측 시스템**
김형복¹, 박민웅¹, 조중휘¹, 강명주², 오승철³
¹인천대학교, ²서울대학교, ³오로스테크놀로지
- TP1-81 10:30-12:10 영상 내 물체 경계에서의 밝기 구배를 이용한 주사전자현미경의 분해능 측정**
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- TP1-82 10:30-12:10 Impurity Barrier 역할로써의Barrier Metal TiN의 특성 평가**
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