A. Interconnect & Package 분과

[TC1-A] Atomic Layer Deposition and Silicides

Date	Feb. 25, 2014 (Tue.)
Place	Room C / 제1공학관 401호 (# 401, Engineering Building I)
TIACC	

Session Chair: 이원준 교수(세종대학교),

TC1-A-1	09:30-09:45	Area-Selective Chemical Vapor Deposition of Co for Reduction of Cu Electromigration
		Hyungjun Kim ¹ 소속: ¹ School of Electrical and Electronic Engineering, Yonsei University, ² Department of Materials Science and Engineering, Incheon National University, ³ Wonik IPS
TC1-A-2	09:45-10:00	Silicidation of Ni prepared by Atomic Layer Deposition with NH₃ Gas Reactant 저자: Soohyeon Kim, Jaehong Yoon, Han-Bo-Ram Lee, and Hyungjun Kim 소속: Department of Electrical and Electronics Engineering, Yonsei University, Department of Materials Science and Engineering, Incheon National University
TC1-A-3	10:00-10:15	Highly Conformal Cu ₂ O Thin Films by Atomic Layer Deposition using a New Non-Fluorinated Cu Precursor 저자: Hangil Kim ¹ , Seung-Joon Lee ¹ , Taehoon Cheon ² , Sang-Kyung Choi ³ , and Soo-Hyun Kim ¹ 소속: ¹ School of Materials Science and Engineering, Yeungnam University, ² Senter for Core Research Facilities, Daegu Gyeongbuk Institute of Science & Technology, ³ Center for Research Facilities, Chungnam National University
TC1-A-4	10:15-10:30	Growth of Ru Thin Film by Thermal Atomic Layer Deposition using a New Beta-Diketonate Ru Precursor and O ₂ or NH3 Molecules as a Seed Layer for Cu Electroplating 저자: Seung-Joon Lee ¹ , Minyoung Lee ¹ , Taehoon Cheon ^{1,2} , Soo-Hyun Kim ¹ , Masayuki Saito ³ , Kazuharu Suzuki ³ , and Shunichi Nabeya ³ 소속: ¹ School of Materials Science and Engineering, Yeungnam University, ² Center for Core Research Facilities, Deagu Gyeonbuk institute of Science & Technology, ³ TANAKA Kikinzoku Kogyo K.K
TC1-A-5	10:30-10:45	Development of Yb Silicide with Low Schottky Barrier by Forming Epitaxial Layer 저자: Sekwon Na, Jun-gu Kang, Juyun Choi, Hyoungsub Kim, and Hoo-jeong Lee 소속: School of Advanced Materials Science and Engineering, Sungkyunkwan University

P. Device for Energy 분과

[TD1-P] Device for Energy I

Date	Feb. 25, 2014 (Tue.)
Place	Room D / 제1공학관 402호 (# 402, Engineering Building I)

Session Chair: 정선호 박사(KRICT), 김윤기 박사(삼성전자)

TD1-P-1	09:30-09:45	Design of Power MOSFET Merged Poly-Silicon Zener Diode for ESD Protection
		저자: Sin Su Kyoung, Jong Min Geum, Eun Sik Jung, and Man Young Sung 소속: Department of Electrical Engineering, Korea University
TD1-P-2	09:45-10:00	Metamaterial Enhanced Power Transfer System for Wireless Charging Applications 저자: A. L. A. K. Ranaweera, Phu Ho Van Quang, Thuc Phi Duong, Byoung-Suk Lee, and Jong-Wook Lee 소속: Department of Electronics and Radio Engineering, Kyung Hee University
TD1-P-3	10:00-10:15	Structural Effect of Triarylamine-Based Multiple Functioned Coadsorbents for Highly Efficient Dye-Sensitized Solar Cells 저자: Ban-seok You ¹ , In-Taek Choi ² , Won-Seok Choi ² , Hwan-Kyu Kim ² , and Ji- Woon Yang ¹ 소속: ¹ Department of Electronics and Information Engineering, Korea University, ² Department of Advanced Materials Chemistry, Korea University
TD1-P-4	10:15-10:30	Performance Enhanced of Inverted Organic Solar Cells with a Ga-Doped ZnO Electron Transport Layer Prepared using a Sol-Gel Method 저자: Hye-Jeong Park, Kyung-Sik Shin, Gyu Cheol Yoon, and Sang-Woo Kim 소속: School of Advanced Materials Science and Engineering, Sungkyunkwan University
TD1-P-5	10:30-10:45	Effect of MoO _x and TiOX Nano-particle Layer on Lifetime Enhancement for PCDTBT:PC ₇₁ BM Polymer Solar Cell 저자: Jin-Seong Park ^{1,2} , Seung-Wook Baek ^{1,2} , Ji-Heon Kim ^{1,2} , Jae-Hyoung Shim ^{1,2} , Yun-Hyuk Ko ^{1,2} , Gon-Sub Lee ² , and Jea-Gun Park ^{1,2} 소속: ¹ Department of Electronics and Computer Engineering, Hanyang University ² Advanced Semiconductor Materials and Devices Development Center, Hanyang University

H. Display and Imaging Technologies 분과

[TE1-H] Display and Imager Circuit

Date	Feb. 25, 2014 (Tue.)
Place	Room E / 제1공학관 403호 (# 403, Engineering Building I)

Session Chair: 최병덕 교수(한양대학교), 박기찬 교수(건국대학교)

TE1-H-1	09:30-10:00	5V Input Level Shifter Circuit for IGZO TFTs 저자: KeeChan Park ¹ , HongKyun Lym ¹ , HwanSool Oh ¹ , JaeEun Pi ² , Chi-Sun Hwang ² , and Sang-Hee Ko Park ² 소속: ¹ Department of Electronics Engineering, Konkuk University, ² Oxide Electronics Research Team, Electronics and Telecommunications Research Institute
TE1-H-2	10:00-10:15	Scan Driver Considering Stress Characteristics of a-IGZO TFT for FPDs 저자: Jin-Yeon Kim, Seong-Jin Ahn, Jun-Seok Na, Seong-Kwan Hong, and Oh- Kyong Kwon 소속: Department of Electronic Engineering, Hanyang University
TE1-H-3	10:15-10:30	Compensation of Missing Pixel for RGBz CMOS Image Sensor 저자: Joonho Lee, Daekwan Kim, and Taechan Kim 소속: Development Team, Samsung Electronics Co., Ltd.
TE1-H-4	10:30-10:45	Effectively Novel Color Emphasis for Image Enhancement using Image- Dependent Method 저자: Hosang Cho, Sungmok Lee, Chang-Wan Kim, and Bongsoon Kang 소속: Department of Electronic Engineering, Dong-A University
TE1-H-5	10:45-11:00	Oxide TFT-Based Shift Register Circuit Tolerant of Clock Duty Variation 저자: JaeWon Lee, SangYeon Kim, SeungO Kim, HwanSool Oh, and KeeChan Park 소속: Department of Electronics Engineering, Konkuk University

L. Analog Design 분과

[TF1-L] 아날로그 및 혼성 신호 회로 설계 1

Date	Feb. 25, 2014	4 (Tue.)
Place	Room F / 제1	I공학관 404호 (# 404, Engineering Building I)
		Session Chair: 박성민 교수(이화여자대학교), 문용 교수(숭실대학교)
TF1-L-1	09:30-09:45	Area-Efficient 20-Gbps Optical Receiver Circuit in 65-nm CMOS Technology 저자: Hyun-Yong Jung, Jin-Sung Youn, and Woo-Young Choi 소속: Department of Electrical and Electronic Engineering, Yonsei University
TF1-L-2	09:45-10:00	입력 지터 감소 기법을 적용한 2.5 Gb/s BMCDR 회로 설계 저자: 정재훈 ¹ , 최정환 ¹ , 백광현 ² 소속: ¹ 삼성전자 메모리사업부, ² 중앙대학교 전자전기공학부
TF1-L-3	10:00-10:15	A Single-Stage 40dB-Linear Digitally-Controlled Variable Gain Amplifier for Ultrasound Analog Front End 저자: Seong-Eun Cho ¹ , Ji-Yong Um ² , Byungsub Kim ² , Jae-Yoon Sim ² , and Hong- June Park ^{1,2} 소속: ¹ Division of IT Convergence Engineering, Pohang University of Science and Technology, ² Department of Electronic and Electrical Engineering, Pohang University of Science and Technology
TF1-L-4	10:15-10:30	Constant Off-Time Control with Time Calibration Method for Buck Converter 저자: Haneul Kim, Kyoungjin Lee, Jehyung Yoon, Hyoung-Seok Oh, and Byeong- Ha Park 소속: Power Device Development Team, System LSI Division, Samsung Electronics Co., Ltd.
TF1-L-5	10:30-10:45	A 25-Gb/s Quarter-Rate CDR in 65-nm CMOS Technology 저자: Dae-Hyun Kwon and Woo-Young Choi 소속: Department of Electrical and Electronic Engineering, Yonsei University
TF1-L-6	10:45-11:00	A Multi-Channel 1-Gb/s/ch Inverter Transimpedance Amplifier Array with Replica in 0.18µm CMOS 저자: Hanbyul Choi, Xiao Ying, Seung-Hoon Kim, and Sung Min Park 소속: Department of Electronics Engineering, Ewha Womans University

O. System LSI Design 분과

[TG1-O] VLSI System Design and Applications I

Date	Feb. 25, 2014 (Tue.)
Place	Room G / 제1공학관 405호 (# 405, Engineering Building I)

Session Chair: 이한호 교수(인하대학교),

TG1-0-1	09:30-10:00	Two-Level Cache Organization for a Merge Mode Prediction in a Hardware- Based HEVC Encoder 저자: Tae Sung Kim ¹ , Hyuk-Jae Lee ¹ , and Chae Eun Rhee ² 소속: ¹ Department of Electrical Engineering and Computer Science, Seoul National University, ² Department of Information and Communication Engineering, Inha University
TG1-O-2	10:00-10:15	Hardware Optimization for Low Complexity Edge Detection 저자: Juseong Lee and Jongsun Park 소속: School of Electrical Engineering, Korea University
TG1-O-3	10:15-10:30	NAND Flash Memory Controller using Multi-Rate BCH Codes 저자: Kijun Lee, Sejin Lim, and Jun Jin Kong 소속: Memory Division, Samsung Electronics Co., Ltd.
TG1-O-4	10:30-10:45	WBAN을 위한 저면적 저전력 BCH 복호기 저자: 정보석, 김철호, 이한호 소속: 인하대학교 정보통신공학부
TG1-O-5	10:45-11:00	System Level Exploring of Memory Configuration for Low Power 저자: Sung Yang, Hoi-Jin Lee, Young-Min Shin, and Jae-Cheol Son 소속: SoC Processor Development Team, System LSI Business, Samsung Electronics Co., Ltd.

G. Device & Process Modeling, Simulation and Reliability 분과

[TJ1-G] Device Physics & Simulation

Date	Feb. 25, 2014 (Tue.)
Place	Room J / 제1공학관 501호 (#501, Engineering Building I)

Session Chair: 김대환 교수(국민대학교), 이상기 박사(동부하이텍)

TJ1-G-1	09:30-10:00	Recent Advances in Deterministic Solvers for the Boltzmann Transport Equation and Future Research Directions 저자: Sung-Min Hong 소속: School of Information and Communications, Gwangju Institute of Science
TJ1-G-2	10:00-10:15	and recinology Simulation of III-V UTB SB-MOSFETs using Tight-Binding Band-Structure Calculations 저자: Howon Choi, Jaehyun Lee, Yolum Lee, and Mincheol Shin 소속: Department of Electrical Engineering, KAIST
TJ1-G-3	10:15-10:30	3D Simulation of Threshold Voltage Variations Due to Random Grain Boundary and Discrete Dopants in Sub-20 nm Gate-All-Around Poly-Si Transistors 저자: Jungsik Kim ¹ , Hyeongwan Oh ³ , Junyoung Lee ³ , Jiwon Kim ³ , Chang-Ki Baek ² , and Jeong-Soo Lee ^{1,3} 소속: ¹ Department of IT Convergence Engineering, Pohang University of Science and Technology, ² Creative IT Engineering and Future IT Innovation Lab, Pohang University of Science and Technology, ³ Electrical Engineering, Pohang University of Science and Technolog
TJ1-G-4	10:30-10:45	Simulation of Dual Material Gate InAs Schottky Barrier Field Effect Transistor 저자: Wonchul Choi, Jaehyun Lee, and Mincheol Shin 소속: Department of Electrical Engineering, KAIST

K. Memory (Design & Process Technology) 분과

[TK1-K] New Memories for Neuromorphic and Reconfigurable Systems

Date	Feb. 25, 2014 (Tue.)
Place	Room K / 제1공학관 502호 (# 502, Engineering Building I)

Session Chair: 민경식 교수(국민대학교),

ТК1-К-1	09:30-10:00	멤리스터 브리지 시넵스를 사용한 생체형 병렬 영상처리 시스템 저자: Hyongsuk Kim, Maheshwar Sah, and Changju Yang 소속: Div. of Electronics Engineering, Chonbuk National University
TK1-K-2	10:00-10:15	Emulation of Spike-Timing Dependent Plasticity in Phase-Change Memory Cells for Neuromorphic Applications 저자: Dae-Hwan Kang, Hyun-Goo Jun, Kyung-Chang Ryoo, Jae Hee Oh, and Hongsik Jeong 소속: Flash PA, Memory Div. Semi. Biz. SEC
ТК1-К-3	10:15-10:30	Improved Synaptic Characteristics of Filamentary ReRAM by Adopting Interfacial Oxide for Neuromorphic Device Application 저자: Behnoush Attarimashalkoubeh, Sangheon Lee, Daeseok Lee, Amit Prakash, Jeonghwan Song, Kibong Moon, and Hyunsang Hwang 소속: Department of Materials Science and Engineering, Pohang University of Science and Technology
ТК1-К-4	10:30-10:45	Improvement in the ON/OFF Ratio (~10 ⁷) and Switching Uniformity of an Atom Switch Using TiO _x Layer for Reconfigurable Logic Application 저자: Behnoush Attarimashalkoubeh, Amit Prakash, Sangheon Lee, Jaesung Park, Jeonghwan Song, Daeseok Lee, Jiyoung Woo, Kibong Moon, Yunmo Koo, and Hyunsang Hwang 소속: Department of Materials Science and Engineering, Pohang University of Science and Technology

J. Nano-Science & Technology 분과

[TL1-J] Graphene & 2D

Date	Feb. 25, 2014 (Tue.)
Place	Room L / 제1공학관 503호 (# 503, Engineering Building I)

Session Chair: 이장식 교수(POSTECH), 박철민 교수(연세대학교)

TL1-J-1	09:30-10:00	Transparent Flexible Nanogenerators Based on 1D/2D Piezoelectric and Triboelectric Nanomaterials 저자: Sang-Woo Kim 소속: School of Advanced Materials Science and Engineering, Sungkyunkwan University Advanced Institute of Nanotechnology, CINAP, Institute of Basic Science, Sungkyunkwan University
TL1-J-2	10:00-10:15	Investigation of Gate Bias Stress Effect on MoS₂ Field Effect Transistors 저자: Kyungjune Cho, Woanseo Park, Tae-Young Kim, and Takhee Lee 소속: Department of Physics and Astronomy, Seoul National University
TL1-J-3	10:15-10:30	Ambient Dependent Photonic Response of Graphene Photodetectors for Optical Interconnect 저자: 유태진 ¹ , 강창구 ² , 이상경 ² , 최선희 ² , 이병훈 ² 소속: School of Materials Science and Engineering, Gwangju Institute of Science and Technology
TL1-J-4	10:30-10:45	Monitoring the Electrical Property of Graphene Transistor by the Oxygen Vacancy Generation of Top Oxide Layer 저자: Taekwang Kim ¹ , Hyewon Du ¹ , Somyeong Shin ¹ , Jong-Hyuk Yoon ² , Eun-Kyu Lee ² , Seungmin Cho ² , and Sunae Seo ¹ 소속: ¹ Department of Physics, Sejong University, ² Micro device & machinery solution division, Samsung Techwin R&D center

A. Interconnect & Package 분과

[TC2-A] Plating and Reliability

Date	Feb. 25, 2014	4 (Tue.)
Place	Room C / 제	1공학관 401호 (# 401, Engineering Building I)
		Session Chair: 김수현 교수(영남대학교),
TC2-A-1	11:10-11:25	Cu Electrodeposition on Ru Seed Layer Prepared by Atomic Layer Deposition 저자: Seunghoe Choe ¹ , Myung Jun Kim ¹ , Hyun Seok Ko ² , Young Kwang Kim ³ , G Joong Kwon ³ , and Jae Jeong Kim ¹ 소속: ¹ School of Chemical and Biological Engineering, Seoul National University ² Department of Material Science and Engineering, Incheon National University, ³ Department of Energy and Chemical Engineering, Incheon National University
TC2-A-2	11:25-11:40	Cu-Ag Superfilling for Damascene Metallization 저자: Myung Jun Kim ¹ , Taeho Lim ¹ , Kyung Ju Park ¹ , Oh Joong Kwon ² , and Jae Jeong Kim ¹ 소속: ¹ School of Chemical and Biological Engineering, Seoul National University ² Department of Energy and Chemical Engineering, Incheon National University
TC2-A-3	11:40-11:55	Real-Time Observation of Cu Electroless Deposition: Synergetic Suppression Effect of 2,2'-Dipyridyl and 3-N,N- Dimethylaminodithiocarbamoyl-1-propanesulfonic Acid 저자: Taeho Lim, Myung Jun Kim, Kyung Ju Park, Kwang Hwan Kim, and Jae Jeong Kim 소속: School of Chemical and Biological Engineering, Seoul National University
TC2-A-4	11:55-12:10	Effect of Pulsed Electric Field on Dielectric Breakdown in Damascene Cu Interconnects 저자: Han-Wool Yeon ¹ , Jun-Young Song ¹ , Jang-Yong Bae ² , Yu-Chul Hwang ² , ar Young-Chang Joo ¹ 소속: ¹ Department of Materials Science & Engineering, Seoul National Universit ² Memory Division, Samsung Electronics Co Ltd.
TC2-A-5	12:10-12:25	Flexible Cu Barrier of PAH/PSS Laminar Structures using Layer-by-Layer (LbL) Method 저자: Daekyun Jeong, Chiyoung Lee, and Jaegab Lee 소속: Department of Advanced Materials Engineering, Kookmin University

P. Device for Energy 분과

[TD2-P] Device for Energy II

Date	Feb. 25, 2014 (Tue.)
Place	Room D / 제1공학관 402호 (# 402, Engineering Building I)

Session Chair: 함문호 교수(GIST),

TD2-P-1	11:10-11:40	Nanostructured Si for Efficient Solar Energy Conversion 저자: Jihun Oh 소속: Graduate School of EEWS (Energy, Environment, Water and Sustainability), KAIST
TD2-P-2	11:40-11:55	Effect of Size and Depth of Silicon-Nano-Holes on Surface Reflectance Reduction for {111} Pyramid-Textured Silicon Solar-Cells 저자: Jae-Hyoung Shim, Seung-Wook Baek, Ji-Heon Kim, Yun-Hyuk Ko, Jin- Seong Park, Gon-Sub Lee and Jea-Gun Park 소속: Department of Electronics and Computer Engineering, Hanyang University
TD2-P-3	11:55-12:10	Effect of Se&S Composition Ratio on Quantum-Yield, Power-Conversion- Efficiency, Energy-Down-Shifting for CdSe/ZnS Core/Shell Quantum-Dot Implemented Silicon Solar-Cells 저자: Seung-Wook Baek, Ji-Heon Kim, Jae-Hyoung Shim, Yun-Hyuk Ko, Jin- Seong Park, Gon-Sub Lee, and Jea-Gun Park 소속: Department of Electronics and Computer Engineering, Hanyang University
TD2-P-4	12:10-12:25	Silicon Solar-Cells Implemented with Energy-Down-Shifting using CdZnS/ZnS Core/Shell Quantum-Dot 저자: Yun-Hyuk Koh, Seng-Wook Baek, Gon-Sub Lee, and Jae-Gun Park 소속: Department of Electronics and Computer Engineering, Hanyang University

H. Display and Imaging Technologies 분과

[TE2-H] Display Device

Date	Feb. 25, 2014 (Tue.)
Place	Room E / 제1공학관 403호 (# 403, Engineering Building I)

Session Chair: 정재경 교수(인하대학교), 구본원 박사(삼성전자종합기술원)

TE2-H-1	11:10-11:25	Effect of Ultra-Thin Active Layer Thickness on the Subthreshold Slope and Bipolar Bias Stress-Induced Degradation in Amorphous InGaZnO Thin-Film Transistors 저자: Dongjae Shin, Sungwoo Jun, Kyung Min Lee, Hyeongjung Kim, Chunhyung Jo, Jaeman Jang, Jaewook Lee, Sung-jin Choi, Dong Myong Kim, and Dae Hwan Kim 소속: School of Eletrical Engineering, Kookmin University
TE2-H-2	11:25-11:40	Oxide-Based Thin-Film Transistors with Artificial Superlattice Channel Structure 저자: Cheol Hyoun Ahn and Hyung Koun Cho 소속: School of Advanced Materials Science and Engineering, Sungkyunkwan
TE2-H-3	11:40-11:55	University Oxygen Vacancy-Dependent Density-of-States and Its Effect on the Negative Bias Illumination Stress-Induced Degradation in Amorphous Oxide Semiconductor Thin-Film Transistors 저자: Kyung Min Lee, Sungwoo Jun, Hyeongjung Kim, Chunhyung Jo, Jaeman Jang, Jaewook Lee, Dong Jae Shin, Jun Tae Jang, Sungju Choi, Sung-Jin Choi,
		Dong Myong Kim, and Dae Hwan Kim 소속: Department of Electrical Engineering, Kookmin University
TE2-H-4	11:55-12:10	High Bright Full Color Electroluminescence Device Driven by Alternating Current (AC) 저자: Sung Hwan Cho, Ihn Hwang, and Cheolmin Park 소속: Department of Materials Science and Engineering, Yonsei University
TE2-H-5	12:10-12:25	Effect of the RF Power in Sputter System on Performance and Photoelectric Degradation of Amorphous Indium-Gallium-Zinc-Oxide Thin-Film Transistors 저자: Jun Tae Jang, Kyung Min Lee, Hyeongjung Kim, Jaeman Jang, Dong Jae Shin, Sungju Choi, Jaewook Lee, Chunhyung Jo, Sungwoo Jun, Sung-Jin Choi, Dong Myong Kim, and Dae Hwan Kim 소속: Department of Electrical Engineering, Kookmin University
TE2-H-6	12:25-12:40	Precharging of Counter Electrode in Viologen-Anchored TiO₂ Nanostructure Electrode Based Ultrafast Electrochromic Devices 저자: Seong M. Cho, Chil Seong Ah, Tae-Youb Kim, Juhee Song, and Hojun Ryu 소속: Next Generation Display Research Department, Electronics and Telecommunications Research Institute

N. VLSI CAD 분과

[TF2-N] CAD & Low Power

	Date	Feb. 25, 2014	(Tue.)
	Place	Room F / 제1	공학관 404호 (# 404, Engineering Building I)
			Session Chair: 이종은 교수(UNIST), 김윤진 교수(숙명여자대학교)
т		11:10-11:40	Wear-Leveling Algorithm for Phase Change Memory using Danger-Line First Address Randomization 저자: Dong-gun Kim 소속: Design Technology System Architecture Team, SK hynix
TI	-2-N-2	11:40-11:55	Identifying Redundant Inter-Cell Margins and Its Application to Technology Mapping 저자: 이유종, 심성보, 신영수 소속: KAIST 전기및전자공학과
TI	₹2-N-3	11:55-12:10	PEEC-Based Dynamic IR Drop Analysis with On Chip Decoupling Capacitor of the Double-Gate FinFETs 저자: Jaemin Lee and Youngmin Kim 소속: School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology
TI	₹2-N-4	12:10-12:25	Design and Optimization of Mesh Clock Network with Multi-Level Clock Gating 저자: Jinwook Jung, Dongsoo Lee, and Youngsoo Shin 소속: Department of Electrical Engineering, KAIST
т	F2-N-5	12:25-12:40	Synthesis of Multi-Stage Gate-Level Clock Gating 저자: Inhak Han and Youngsoo Shin 소속: Department of Electrical Engineering, KAIST

O. System LSI Design 분과

[TG2-O] VLSI System Design and Applications II

Date	Feb. 25, 2014	1 (Tue.)
Place	Room G / 제	1공학관 405호 (# 405, Engineering Building I)
		Session Chair: 이채은 교수(인하대학교), 장익준 교수(경희대학교)
TG2-O-1	11:10-11:25	Optimized Heterogeneous 3D Networks-on-Chip for High Performance System-on-Chip Design 저자: Michael Opoku Agyeman and Ali Ahmadinia 소속: School of Engineering and Built Environment, Glasgow Caledonian University

		Onversity
TG2-O-2	11:25-11:40	Fault-Tolerant CGRA-Based Multi-Core Architecture¹ 저자: Seungyun Sohn, Heesun Kim, and Yoonjin Kim 소속: Department of Computer Science, Sookmyung Women's University
TG2-O-3	11:40-11:55	A 256-Radix Crossbar Switch using Mux-Matrix-Mux Folded-Clos Topology 저자: Sung-Joon Lee and Jaeha Kim 소속: Department of Electrical and Computer Engineering, Seoul National University
TG2-O-4	11:55-12:10	An Efficient Fault-Tolerant Routing Algorithm for 3D Networks-on-Chip 저자: Michael Opoku Agyeman and Ali Ahmadinia 소속: School of Engineering and Built Environment, Glasgow Caledonian University
TG2-O-5	12:10-12:25	Unified Single-Port Survivor Memory for High-Speed Viterbi Decoder using 3-Unit Packing/Unpacking-Based Data Processing 저자: Jinil Chung and Jongsun Park 소속: School of Electrical Engineering, Korea University

G. Device & Process Modeling, Simulation and Reliability 분과

[TJ2-G] Device Simulations/Characterization

Date	Feb. 25, 2014 (Tue.)
Place	Room J / 제1공학관 501호 (# 501, Engineering Building I)

Session Chair: 이재규 박사(삼성전자), 이성현 교수(한국외국어대학교)

TJ2-G-1	11:10-11:25	Operation and Modeling of Select Gate Lateral Coupling eNVM 저자: Nam-Yoon Kim ¹ , Sung-Kun Park ¹ , In-Wook Cho ¹ , Kyung-Dong Yoo ¹ , Eun- Mee Kwon ² , and Sang-Young Kim ² 소속: ¹ TD, Image Development Group, System IC Division, SK hynix, ² DMR, Research & Development Division, SK Hynix
TJ2-G-2	11:25-11:40	Design of New High-Performance Vertical NPN BJT and nLDMOS of Full- Featured BCD Technology 저자: Yon-Sup Pang, François Hébert, Seongmin Cho, Juho Kim, Sookjin Kwon, Yushin Ryu, Kyungho Lee, Leeyeun Hwang, Sung-Bum Park, Jung Lee, and Taejong Lee 소속: MagnaChip Semiconductor, Corporate Engineering
TJ2-G-3	11:40-11:55	A Dual Sweep Transfer Curve Technique for Separate Extraction of Source and Drain Resistances in Advanced FETs without Substrate Contacts 저자: Jun Seok Hwang, Hagyoul Bae, Hyunjun Choi, Jaeyeop Ahn, Jungmin Lee, Sung-Jin Choi, Dae Hwan Kim, and Dong Myong Kim 소속: School of Electrical Engineering, Kookmin University
TJ2-G-4	11:55-12:10	Investigation of Work-Function Variation for FinFET Using a Modified RGG Concept 저자: Hyohyun Nam and Changhwan Shin 소속: School of Electrical and Computer Engineering, University of Seoul
TJ2-G-5	12:10-12:25	Full Characterization of 2T SONOS Nonvolatile Memory for TSC Application 저자: Taeho Lee ¹ , Youngjun Kwon ¹ , Jaegwan Kim ¹ , Sungkun Park ¹ , Inwook Cho ¹ , Kyungdong Yoo ¹ , Youngdong Joo ² , and Seungdeok Kim ² 소속: ¹ TD, Image Development Group, System IC Division, SK hynix, ² Wingcore Technology Inc.
TJ2-G-6	12:25-12:40	Investigation of the THz Resonant Oscillation in HEMTs by Solving the Pseudo-2D Poisson Equation and the 1D Transport Equation 저자: Sung-Min Hong ¹ , Jae-Hyung Jang ¹ , and Kyung Rok Kim ² 소속: ¹ School of Information and Communications, Gwangju Institute of Science and Technology, ² School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology

K. Memory (Design & Process Technology) 분과

[TK2-K] 3D Memory Techniques

Date	Feb. 25, 2014 (Tue.)	
Place	Room K / 제1공학관 502호 (# 502, Engineering Building I)	

Session Chair: 곽동화 박사(삼성전자),

TK2-K-1	11:10-11:40	Scaling Issues and Trends of NAND Flash Memory 저자: Jaeduk Lee, Youngwoo Park, and Gyoyoung Jin 소속: Semiconductor R&D Center, Samsung Electronics
ТК2-К-2	11:40-11:55	Towards High Performance Selector Device for 3D Stacked Cross-Point Arrays 저자: Jiyong Woo, Daeseok Lee, Euijun Cha, Sangheon Lee, Sangsu Park, and Hyunsang Hwang 소속: Department of Materials Science and Technology, Pohang University of Science and Technology
ТК2-К-3	11:55-12:10	A New Programming Method to Alleviate the Program Speed Variation for Three-Dimensional Channel Stacked Array Architecture 저자: Joo Yun Seo, Yoon Kim, Sang Ho Lee, and Byung-Gook Park 소속: Inter-university Semiconductor Research Cener and Department of Electrial Engineering, Seoul National University
ТК2-К-4	12:10-12:25	3차원 플래쉬 메모리를 위한 매우 얇은 다결정 실리콘 채널 층을 갖는 정션리스 플래쉬 메모리의 특성에 관한 연구 저자: 박종경 ¹ , 김승윤 ¹ , 이기홍 ² , 피승호 ² , 이석희 ^{1,2} , 조병진 ¹ 소속: ¹ 한국과학기술원 전기 및 전자공학과, ² SK 하이닉스 반도체 메모리 연구 소

J. Nano-Science & Technology 분과

[TL2-J] ReRAM

Date	Feb. 25, 2014 (Tue.)	
Place	Room L / 제1공학관 503호 (# 503, Engineering Building I)	

Session Chair: 김상우 교수(성균관대학교), 이탁희 교수(서울대학교)

TL2-J-1	11:10-11:40	Organic Nonvolatile Memory Devices Based on Self-Assembled Nanomaterials 저자: Jang-Sik Lee 소속: Department of Materials Science and Engineering, Pohang University of Science and Technology
TL2-J-2	11:40-11:55	Flexible Graphene-PZT Ferroelectric Field Effect Transistors for Nonvolatile Memory 저자: Wonho Lee and Jong-Hyun Ahn 소속: School of Electrical & Electronic Engineering, Yonsei University
TL2-J-3	11:55-12:10	Characterization of Nanoscale Copper-Oxide Resistive Switching Memory Devices using Self-Assembled Nano-Templates 저자: Un-Bin Han and Jang-Sik Lee 소속: Department of Materials Science and Engineering, Pohang University of Science and Technology
TL2-J-4	12:10-12:25	Hardware Implementation of Associative Memory Characteristics 저자: Kibong Moon, Sangsu Park, Daeseok Lee, and Hyunsang Hwang 소속: Department of Materials Science and Engineering, Pohang University of Science and Technology

A. Interconnect & Package 분과

[WC1-A] High Performance Mobile Packaging Technology

Date	Feb. 26, 2014 (Wed.)		
Place	Room C / 제1공학관 401호 (# 401, Engineering Building I)		
	Session Chair: 이운선 발사(SK hynix)		

WC1-A-1	10:50-11:20	SI/PI Co-Simulation Including Voltage Regulating Circuitry for High- Performance Multi-Chip Packages 저자: JuHwan Lim, JongJoo Lee, SoYoung Jung, and JoonHee Lee 소속: Memory Division, Samsung Electornics Co., Ltd.
WC1-A-2	11:20-11:35	전류 보조 접합 방법에 의한 Cu-Cu 직접 접합 방법 저자: 마성우 ¹ , 신찬호 ¹ , 안기원 ² , 이정환 ³ , 김기범 ³ , 서민석 ³ , 변광유 ³ , 김영호 ^{1,2} 소속: ¹ 한양대학교 나노반도체공학과, ² 한양대학교 신소재공학부, ³ SK 하이닉스 반도체
WC1-A-3	11:35-11:50	Parametric Study for Optimum Ag wire Bondability 저자: Kwang-Soo Kim, Jae-Seung Seok, Kyung-Man Kim, Sung-Wook Hwang, Hai-Ick Kim, Joon-Young Oh, and Joon-Hee Lee 소속: Flash Development, Samsung Electronics Co., Ltd.
WC1-A-4	11:50-12:05	40 um Pitch Micro Bump의 Interconnection 평가 저자: Seunghyun Lee, Seongkwon Chin, Sukwoo Jeon, and Namseog Kim 소속: SK hynix Inc.

B. Patterning 분과

[WD1-B] Patterning

	Date	Feb. 26, 2014	Feb. 26, 2014 (Wed.)		
Place Room D / 제1공학관 402호 (# 402, Engineering Building I)		1공학관 402호 (# 402, Engineering Building I)			
			Session Chair: 김현우 교수(한양대학교), 유원종 교수(성균관대학교)		
w	D1-B-1	10:50-11:20	Modeling and Analysis of EUV Mask Defects for Resist Pattern 저자: Sang-Kon Kim 소속: Department of Applied Physics, Hanyang University		
w	D1-B-2	11:20-11:35	EUV 마스크 검사용 Coherent EUV 광원 개발 저자: 김용수 ^{1,2} , 안준모 ¹ , 성하민 ³ , 조운조 ¹ , 박민철 ¹ , 김점술 ³ , 김재헌 ¹ , 우덕하 ¹ , 이석 ¹ , 이주한 ² , 김용태 ¹ , 전영민 ¹ 소속: ¹ 한국과학기술연구원 센서시스템연구센터, ² 서울시립대학교 전자전기컴퓨 터공학과, ³ 레이저 스펙트라		
w	D1-B-3	11:35-11:50	Fabrication of Nano-Size Cross Array Patterns by Nano Imprint Lithography 저자: Dohyung Kim, Youngin Gil, and Changhwan Choi 소속: Division of Materials Science & Engineering, Hanyang University		

D. Thin Film Process Technology 분과

[WE1-D] Thin-Film Transistors

Date	Feb. 26, 2014 (Wed.)	
Place	Room E / 제1공학관 403호 (# 403, Engineering Building I)	

Session Chair: 윤성민 교수(경희대학교), 정선호 박사(KRICT)

WE1-D-1	10:50-11:20	Passivation Layer Effects on Oxide Semiconductor Thin Films during Thermal Annealing 저자: Chi-Sun Hwang, Sang-Hee Ko Park, Sung-Heang Cho, Min Ki Ryu, Himchan Oh, Jong-Heon Yang, Su Jae Lee, Chunwon Byun, Jonghyurk Park, Jae-Eun Pi, Eunsuk Park, Ohsang Kwon, Hee-Ok Kim, and Jong Woo Kim 소속: Oxide TFT Research Section, Electronics and Telecommunications Research Institute
WE1-D-2	11:20-11:35	Double-Layered Vertically Integrated Amorphous-In₂Ga₂ZnO₇ Thin-Film Transistor 저자: Sang Ho Rha ¹ , Un Ki Kim ² , Jisim Jung ² , Eun Suk Hwang ² , Jung-Hae Choi ³ , and Cheol Seong Hwang ² 소속: ¹ Department of Nano Science and Technology, Seoul National University, ² Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University, ³ Electronic Materials Research Center, Korea Institute o
WE1-D-3	11:35-11:50	Nonvolatile Memory Operations of In-Ga-Zn-O TFTs using Conductivity- Modified ZnO Charge-Trap Layers Prepared by Atomic-Layer Deposition 저자: Jun-Yong Bak ¹ , Min-Ki Ryu ² , Sang-Hee Ko Park ² , Chi-Sun Hwang ² , and Sung-Min Yoon ¹ 소속: ¹ Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University, ² Oxide TFT Research Team, Electronics and Telecommunications Research Institute
WE1-D-4	11:50-12:05	Extraction of Interface Trap Density at Gate Dielectric and Organic Semiconductor from Photo-Conductivity of Organic Thin Film Transistors 저자: Seung-Hyeon Jeong and Chung-Kun Song 소속: Department of Electronics Engineering, Dong-A University

E. Compound Semiconductors 분과

[WF1-E] Compound Semiconductor I

Date	Feb. 26, 2014 (Wed.)
Place	Room F / 제1공학관 404호 (# 404, Engineering Building I)

Session Chair: 문재경 박사(ETRI), 차호영 교수(홍익대학교)

WF1-E-1	10:50-11:05	Fast Recovery Diode Embedded Normally-off AlGaN/GaN MOSHFET 저자: 박봉렬, 이정연, 이재길, 한상우, 차호영 소속: 홍익대학교
WF1-E-2	11:05-11:20	Home Appliance용 전력소자의 스위칭 항복 전압 향상을 위한 p-GaN Gate HFET의 Gate 특성 연구 저자: 송미선, 김웅선, 신종훈, 장태훈 소속: LG전자 System, IC 연구소 IGBT Part
WF1-E-3	11:20-11:35	Home Appliance용 AlGaN/GaN HFET의 Au-Free 공정 적용에 대한 연구 저자: 조영제, 고화영, 박진홍, 이호중, 장태훈 소속: IGBT Part, System IC R&D, LG Electronics
WF1-E-4	11:35-11:50	Role of Thin Al2O3 Dielectric Layer in AlGaN/GaN-Based MISHFET as Gate Insulator and Surface Protection Layer during RTP 저자: V. Sindhuri, Do-Kywn Kim, Dong-Seok Kim, Chul-Ho Won, Jun-Hyeok Lee, and Jung-Hee Lee 소속: School of Electronics Engineering, Kyungpook National University
WF1-E-5	11:50-12:05	Large GaN-SBD with a Symmetric Electrode Structure using an Ohmic Recess Process and Si Ohmic Metal 저자: W.Y. Jang ^{1,2} , H.G. Jang ^{1,5} , J.H. Na ¹ , S.C. Ko ¹ , Y.R. Park ¹ , J.J. Kim ^{1,3} , W.J. Jang ¹ , S.B. Bae ¹ , C.H. Jun ¹ , S.H. Moon ¹ , D.K. Kim ² , J.K. Mun ¹ , H.M. Park ⁴ , and E.S. Nam ¹ 소속: ¹ Electronics and Telecommunications Research Institute, ² Sejong University, ³ Chunbuk National University, ⁴ Dongguk University, ⁵ University of Science and Technology

F. Silicon Device and Integration Technology 분과

[WG1-F] Emerging Device Technologies

Date	Feb. 26, 2014 (Wed.)
Place	Room G / 제1공학관 405호 (# 405, Engineering Building I)

Session Chair: 노태문 박사(ETRI), 최우영 교수(서강대학교)

WG1-F-1	10:50-11:20	SiGeSn Ternary System for Next-Generation Electronic and Photonic Devices 저자: Seongjae Cho ¹ , Byung-Gook Park ² , and James S. Harris Jr. ³ 소속: ¹ Department of Electronic Engineering, Gachon University, ² Inter-university Semiconductor Research Center (ISRC) with Department of Electrical and Computer Engineering, Seoul National University, ³ Department of Electrical Engineering, Stanford University
WG1-F-2	11:20-11:35	Optimization of Integration Process for Stabilized Graphene MOSFET 저자: 김윤지, 이영곤, 강창구, 정욱진, 이상철, 이상경, 이병훈 소속: School of Materials Science and Engineering, Gwangju Institute of Science and Technology
WG1-F-3	11:35-11:50	Integrate-and-Fire Neuron Circuit and Synaptic Device with Floating Body MOSFETs 저자: Min-Woo Kwon, Hyungjin Kim, Jungjin Park, and Byung-Gook Park 소속: ISRC and Department of Electrical and Computer Engineering, Seoul National University
WG1-F-4	11:50-12:05	Schottky Barrier Tunneling Field-Effect Transistor using Spacer Technique 저자: Hyun Woo Kim, Jong Pil Kim, Sang Wan Kim, Min-Chul Sun, Garam Kim, Jang Hyun Kim, Euyhwan Park, and Byung-Gook Park 소속: Department of Electrical Engineering and Computer Science, Seoul National University

G. Device & Process Modeling, Simulation and Reliability 분과

[WJ1-G] Thin-Film Transistors/Reliability

Date	Feb. 26, 2014 (Wed.)
Place	Room J / 제1공학관 501호 (# 501, Engineering Building I)

Session Chair: 신민철 교수(KAIST), 최재훈 박사(SK hynix)

WJ1-G-1	10:50-11:05	A Novel Characterization Technique for Location of Laterally Distributed Grain Boundary in Polycrystalline Silicon Thin-Film Transistors 저자: Jaeyeop Ahn, Hagyoul Bae, Hyunjun Choi, Jun Seok Hwang, Jungmin Lee, Sung-Jin Choi, Dae Hwan Kim, and Dong Myong Kim 소속: School of Electrical Engineering, Kookmin University
WJ1-G-2	11:05-11:20	The Effect of Passivation on the Positive Bias Stress-Induced Instability of Polymer Thin-Film Transistors 저자: Jaewook Lee, Jaeman Jang, Hyeongjung Kim, Chunhyung Jo, Sungwoo Jun, Kyung Min Lee, Dong Jae Shin, Juntae Jang, Sungju Choi, Sung-Jin Choi, Dong Myong Kim, and Dae Hwan Kim 소속: School of Electrical Engineering, Kookmin University
WJ1-G-3	11:20-11:35	Capacitance-Voltage Technique for Extraction of Intrinsic Subgap DOS in AOS TFTs with Bias-Dependent Channel Conduction Factor Model 저자: Hyunjun Choi, Hagyoul Bae, Jaeyeop Ahn, Jun Seok Hwang, Jungmin Lee, Sung-Jin Choi, Dae Hwan Kim, and Dong Myong Kim 소속: School of Electrical Engineering, Kookmin University
WJ1-G-4	11:35-11:50	Prediction Technique and Mechanism for PCB Pattern Crack in NAND Package of SSD 저자: JungHoon Kim, JinYoung Choi, JaeWoo Jung, Jin-Hyuk Lee, JongYun Yun, and JoonHee Lee 소속: Solution Development Team, Samsung Electronics Co., Ltd.
WJ1-G-5	11:50-12:05	Analysis of Power Integrity of Multi-Layer 3D IC with PEEC-Based PDN 저자: Seungwon Kim, Ki Jin Han, and Youngmin Kim 소속: School of Electrical and Computer Engineering, Ulsan National Institute of Science and Techology

I. MEMS & Sensors 분과

[WK1-I] Bio Sensor

	Date	te Feb. 26, 2014 (Wed.)	
	Place	Room K / 제1	1공학관 502호 (# 502, Engineering Building I)
			Session Chair: 한상욱 박사(KIST),
W	K1-I-1	10:50-11:20	Gyroscopes using Surface Acoustic Waves for High Shock Tolerance 저자: Sang Sik Yang 소속: Department of Electrical and Computer Engineering, Ajou University
w	'K1-I-2	11:20-11:35	Graphene Oxide Coupled Sandwiched Immunoassays Based on Surface Plasmon Resonance Biosensing 저자: Yeonsoo Ryu, Seyoung Moon, Youngjin Oh, Yonghwi Kim, Taewoong Lee, and Donghyun Kim 소속: School of Electrical and Electronic Engineering, Yonsei University
W	'K1-I-3	11:35-11:50	Optical and Electrical Characterization of Hydrogen Peroxide Cytotoxicity using Indium Tin Oxide Electrode 저자: Yonghyun Choi ¹ , Jaeyoung Kim ² , and Sungbo Cho ¹ 소속: ¹ Deparment of Biomedical Engineering, Gachon University, ² Department of Biological Science, Gachon University
w	'K1-I-4	11:50-12:05	Plasma Enhanced Chemical Vapor Deposition of Amine Layer on Polycarbonate 저자: Dong-Ho Han ¹ , Jung-Hwan Lee ³ , Heon-Yul Ryu ¹ , Si-Hyeong Cho ¹ , and Jin Goo Park ^{1,2} 소속: ¹ Department of Bionano Technology, Hanyang University, ² Department of Materials Engineering, Hanyang University, ³ NanoBioSys Inc.

J. Nano-Science & Technology 분과

[WL1-J] 나노구조

	Date	Feb. 26, 2014	Feb. 26, 2014 (Wed.)	
	Place	Room L / 제1공학관 503호 (# 503, Engineering Building I)		
			Session Chair: 김웅 교수(고려대학교), 장호원 교수(서울대학교)	
w	L1-J-1	10:50-11:20	Solution-Based Synthesis of Anisotropic Metal Chalcogenide Nanomaterials and the Challenges 저자: Unyong Jeong 소속: Department of Materials Science and Engineering, Yonsei University	
W	L1-J-2	11:20-11:35	Nano-Imprinted Metal Electrode by Solution-Based Ag Nano Particles with Methanol Capillary Force Effect 저자: Youngin Gil, DoHyung Kim, and Changhwan Choi 소속: Division of Materials Science & Engineering, Hanyang University	
W	L1-J-3	11:35-11:50	The Relationship between Adsorption Thickness of Polymer Layer on Ceria and Dishing in Shallow Trench Isolation Chemical Mechanical Planarization 저자: Kijung Kim ¹ , Jihoon Seo ² , Sunho Moon ² , and Ungyu Paik ^{1,2} 소속: ¹ Department of Nanoscale Semiconductor Engineering, Hanyang University, ² WCU Department of Energy Engineering, Hanyang University	
W	L1-J-4	11:50-12:05	Nano-Embossing Ceria Abrasive with Polishing Rate Accelerator for Scratch-Less Poly-Si Stop CMP Application 저자: Sang-su Yun, Eun-bin Seo, Hao Cui, Jin-Hyung Park, and Jea-Gun Park 소속: Advanced Semiconductor Materials & Device Development Center, Hanyang University	

A. Interconnect & Package 분과

[WC2-A] 3D & 2.5D Packaging Technology

Date	Feb. 26, 2014 (Wed.)
Place	Room C / 제1공학관 401호 (# 401, Engineering Building I)

Session Chair: 이후정 교수(성균관대학교),

WC2-A-1	13:05-13:20	TSV Bumping 공정을 위한 저온 Nitride & Oxide 필름 개발 및 특성 연구 (Study on the Characteristics of Low Temperature Chemical Vapor Deposited Silicon Nitride and Silicon Oxide Film in Through Silicon via Bumping Process) 저자: 양주헌, 최동진, 정래형, 김진평, 이웅선, 서민석, 변광유 소속: Advanced PKG Development Team, SK hynix Inc.
WC2-A-2	13:20-13:35	Electrical Resistance Evolution of Cu Electroplated on a Si Interposer 저자: Wan-Gyu Lee 소속: Department of Nanodevice, National NanoFab Center
WC2-A-3	13:35-13:50	Through-Silicon-Via(TSV) Filling by Electrochemical Deposition with High Frequency Pulsed-Current 저자: Sanghyun Jin ¹ , Geon Wang ¹ , Sungho Seo ² , and Bongyong Yoo ^{1,2} 소속: ¹ Department of Materials Engineering, Hanyang University, ² Department of Bionanotechnology, Hanyang University
WC2-A-4	13:50-14:05	Effect of Design on Thermo-Mechanical Stress in Through-Silicon Via 저자: Joo-Sun Hwang and Won-Jun Lee 소속: Faculty of Nanotechnology and Advanced Materials Engineering, Sejong University
WC2-A-5	14:05-14:20	Solder Thickness Effect on the Interfacial Reaction Characteristics of Cu/Sn- 3.5Ag Micro-Bump for 3D Integration
		저자: Byeong-rok Lee ¹ , Young-ki Ko ² , Chang-woo Lee ² , and Young-bae Park ¹ 소속: ¹ School of Materials Science and Engineering, Andong National University, ² Micro-Joining Center, Korea Institute of Industrial Technology

C. Materials Growth & Characterization 분과

[WD2-C] Nitride/Graphene Growth and Applications

Date	Feb. 26, 2014 (Wed.)
Place	Room D / 제1공학관 402호 (# 402, Engineering Building I)

Session Chair: 김성복 박사(ETRI), 박일규 교수(영남대학교)

WD2-C-1	13:05-13:35	Applications of Nano-Hybrid Structures for Improvement of Light Extraction Efficiency in Light Emitting Didoes 저자: Jinsub Park 소속: ¹ Department of Electronic Engineering, Hanyang University, ² Electronics and Computer Engineering, Hanyang University
WD2-C-2	13:35-13:50	Acetone-Derived Graphene: Synthesis and Seawater Corrosion Application 저자: Jae-Hoon Huh ^{1,2} , Seung Hyun Kim ³ , Jae Hwan Chu ¹ , Sung Youb Kim ^{1,2} , Ji Hyun Kim ³ , and Soon-Yong Kwon 소속: ¹ School of Mechanical and Advanced Materials Engineering, Ulsan National Institute of Science and Technology, ² Opto-Electronics Convergence Group & Low Dimensional Carbon Materials Center, Ulsan National Institute of Science and Technology, ³ Interdiscipli
WD2-C-3	13:50-14:05	Fabrication of Ohmic Contact using Graphene Insertion between AlGaN and Ni/Au in AlGaN/GaN Structures. 저자: Yoonhyung Kim, Minjun Kim, and Jinsub Park 소속: Department of Electronics Computer Engineering, Hanyang University
WD2-C-4	14:05-14:20	Effects of Nickel Cobalt Oxide Nanoparticles on Luminous Efficiency of Light-Emitting-Diodes. 저자: Do-Hyun Kim , G.Mohan Kumar, and Jinsub Park 소속: Department of Electronics Computer Engineering, Hanyang University

D. Thin Film Process Technology 분과

[WE2-D] Memory Thin-Film Technologies

Date	Feb. 26, 2014 (Wed.)
Place	Room E / 제1공학관 403호 (# 403, Engineering Building I)

Session Chair: 민요셉 교수(건국대학교), 전상훈 교수(고려대학교)

WE2-D-1	13:05-13:20	Evolution of Phases and Ferroelectric Properties of Thin Hf _{0.5} Zr _{0.5} O ₂ Films According to the Thickness and Annealing Temperature 저자: Min Hyuk Park, Han Joon Kim, Yu Jin Kim, Woongkyu Lee, Taehwan Moon, and Cheol Seong Hwang 소속: Department of Material Science & Engineering and Inter-university Semiconductor Research Center, Seoul National University
WE2-D-2	13:20-13:35	A New Chemical Route for Vapor Phase Deposition of GeTe for Phase Change Memory 저자: Taehong Gwon ¹ , Taeyong Eom ¹ , Sijung Yoo ¹ , Moo-Sung Kim ² , Iain Buchanan ³ , Manchao Xiao ³ , and Cheol Seong Hwang ¹ 소속: ¹ Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University, ² Air Products Korea, ³ Air Products and Chemicals, Inc.,
WE2-D-3	13:35-13:50	Kinetic Analysis of Atomic Layer Deposition Process of (GeTe ₂) _(1-x) (Sb ₂ Te ₃) _x Layers for Phase Change Memories 저자: Taeyong Eom ¹ , Taehong Gwon ¹ , Sijung Yoo ¹ , Moo-Sung Kim ² , Iain Buchanan ³ , Manchao Xiao ³ , and Cheol Seong Hwang ¹ 소속: ¹ Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University, ² Air Products Korea, ³ Air Products and Chemicals, Inc.,
WE2-D-4	13:50-14:05	Evaluating the Change in Electrical Conduction Mechanism and Dielectric Properties of TiO ₂ Thin-Film by Al Doping 저자: Woojin Jeon, Woongkyu Lee, Yeon Woo Yoo, Cheol Hyun An, and Cheol Seong Hwang 소속: Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University,
WE2-D-5	14:05-14:20	An Investigation of Electrical Characteristics in TiO _x Thin Film by Controlling Oxygen Vacancy 저자: Jaesung Park, Daeseok Lee, Jiyong Woo, Euijun Cha, Sangheon Lee, Kibong Moon, Yunmo Koo, Jeonghwan Song, and Hyunsang Hwang 소속: Department of Materials and Science Engineering, Pohang University of Science and Technology

E. Compound Semiconductors 분과

[WF2-E] Compound Semiconductor II

Date Feb. 26, 2014 (Wed.)	
Place Room F / 제1공학관 404호 (# 404, Engineering Building I)	

Session Chair: 윤형섭 박사(ETRI), 임종원 박사(ETRI)

WF2-E-1	13:05-13:35	Recent Advances in Terahertz Electronics 저자: Munkyo Seo ¹ , Miguel Urteaga ² , and Mark Rodwell ³ 소속: ¹ College of Information and Communication Engineering, Sungkyunkwan University, ² Teledyne Scientific Company, ³ University of California
WF2-E-2	13:35-14:05	THz Varactors based on III-V High Electron Mobility Transistor Structures 저자: Seung Heon Shin, Dae-Myeong Gum, and Jae-Hyung Jang 소속: School of Information and Communications, Gwangju Institute of Science and Technology
WF2-E-3	14:05-14:20	Improved Current Collapse Phenomenon in AlGaN/GaN HEMTs on Si Substrate by using SiNx Re-Deposition Process 저자: Minseong Lee, Donghwan Kim, Sukeun Eom, and Kwangseok Seo 소속: Department of Electrical Engineering and Computer Science, Seoul National University

F. Silicon Device and Integration Technology 분과

[WG2-F] Fin FETs, CIS and Power Devices

Date	Feb. 26, 2014 (Wed.)	
Place	Room G / 제1공학관 405호 (# 405, Engineering Building I)	

Session Chair: 이종호 교수(서울대학교), 이병훈 교수(GIST)

WG2-F-1	13:05-13:35	Performance Optimization Study of FinFETs Considering Parasitic Capacitance and Resistance 저자: SoYoung Kim 소속: Department of Semiconductor Systems Engineering, Sungkyunkwan University
WG2-F-2	13:35-13:50	Effect of Hydrogen Induced Gettering on Sensing Margin Enhancement of Si CMOS Image-Sensor Contaminated with Cu and Ni 저자: II-Hwan Kim, Seung-Hyun Song, Joo-Hyeong Park, Gon-Sub Lee, and Jea- Gun Park 소속: Department of Electronics and Communication Engineering, Hanyang University
WG2-F-3	13:50-14:05	Optimization of 7V to 60V Low Vgs nLDMOS with Enhanced Specific On- Resistance 저자: Min-Woo Kim, Cheol-Ho Cho, Choul-Joo Ko, Min-Seok Kim, Hyung-Gyun Jung, Hee-Bae Lee, Sun-Kyung Bang, Han-Geon Kim, Sung-Mo Gu, Sun-Kyoung Kang, and Jung-Ho Kang 소속: Product Integration Team, Dongbu Hitek
WG2-F-4	14:05-14:20	Proposal of 90V Rated High-Side n-Type LDMOS Utilizing Double-Epi Process 저자: Joowon Park, Kwangsik Ko, Soonyeol Park, Daehoon Kim, Jina Eum, Kuemju Lee, Sekyung Oh, Sanghyun Lee, Inwook Cho, and Kyungdong Yoo 소속: Technology Development team, SK hynix Inc.

M. RF Design 분과

[WJ2-M] Wireless Transcover

Date	Feb. 26, 2014 (Wed.)
Place	Room J / 제1공학관 501호 (# 501, Engineering Building I)

Session Chair: 박준배 박사(㈜아나패스), 이강윤 교수(성균관대학교)

WJ2-M-1	13:05-13:35	GPS와 Compass를 위한 이중 채널용 GNSS 수신기의 설계 기법 저자: 정연재 소속: ㈜ 지씨티리써치, 아날로그 부서
WJ2-M-2	13:35-13:50	A Design of Up-Down Converter for WCDMA Repeater 저자: Hyo-Bin Jung, Won-Jae Jung, Sang-Kyu Kim, Se-Mi Lim, Ji-Hoon Lee, Kyu- Hyun Nam, and Jun-Seok Park 소속: School of Electrical Engineering, Kookmin University
WJ2-M-3	13:50-14:05	Baseband Block Control for Low Power Consumption in Broadcasting RF Receiver System 저자: Huijung Kim, Sanghoon Kang, Hyeongseok Jeong, Soo-Young Kim, and Chaehag Yi 소속: M&C development, , Samsung Electronics Ci\o., Ltd.

I. MEMS & Sensors 분과

[WK2-I] Physical Sensors

Date	Feb. 26, 2014 (Wed.)	
Place	Room K / 제1공학관 502호 (# 502, Engineering Building I)	

Session Chair: 김상인 교수(아주대학교),

WK2-I-1	13:05-13:20	Quantum-Dot Sensitized Metal Oxide Semiconductor Hybrid Phototransistor for Near Infrared Detection 저자: Do Kyung Hwang ¹ , Hee Sung Lee ² , Yun Jae Lee ¹ , Won Kook Choi ¹ , and Seongil Im ² 소속: ¹ Interface Control Research Center, Korea Institute of Science and Technology, ² Institute of Physics and Applied Physics, Yonsei University
WK2-I-2	13:20-13:35	Development of Low-Cost and High Speed Coincidence Count Unit using FPGA 저자: Byung Kwon Park, Min-Soo Lee, Min Ki Woo, II Young Kim, Osung Kwon, Yong-Su Kim, Sang-Wook Han, and Sung Moon 소속: Center of Nano & Quantum Information Research, Korea Institute of Science and Technology
WK2-I-3	13:35-13:50	Temperature Characteristics of Dark and Afterpulse Noise in Single Photon Detector using InGaAs/InP Avalanche Photodiode 저자: Minsoo Lee, Byungkwon Park, Minki Woo, II-young Kim, Osung Kwon, Young-su Kim, Sang-wook Han, and Sung Moon 소속: Nano & Quantum Information Research Center, Korea Institute of Science and Technology
WK2-I-4	13:50-14:05	Noise Reduction in Graphene Nanopores 저자: Ashvani Kumar, Kyeong-Beom Park, Hyun-Mi Kim, and Ki-Bum Kim 소속: Department of Materials Science and Engineering, Seoul National University
WK2-I-5	14:05-14:20	The Fabrication Method of Tungsten Oxide-Based Sensors using Laser- Induced Oxidation 저자: Jaeho Shim, Jeong Oen Lee, Kyungmook Kwon, Minkyung Kim, Jun-Bo Yoon, and Kyoungsik Yu 소속: Department of Electrical Engineering, KAIST

J. Nano-Science & Technology 분과

[WL2-J] 나노 융합 소자

Date Feb. 26, 2014 (Wed.)		(Wed.)	
	Place	Room L / 제1	공학관 503호 (# 503, Engineering Building I)
			Session Chair: 정운룡 교수(연세대학교), 이탁희 교수(서울대학교)
W	L2-J-1	13:05-13:35	Nanophotonic Devices for NT-IT Convergence 저자: Chang-Won Lee, Yeonsang Park, Young-Geun Roh, Jineun Kim, and
			Sangmo Cheon 소속: Frontier Research Lab, Samsung Advanced Institute of Technology
W	L2-J-2	13:35-14:05	Three-Dimensional Nanostructures for Photovoltaic Applications 저자: Jeehwan Kim ² , Oki Gunawan ² , Byungha Shin ^{1,2} , Jae-Woong Nah ² , George Tulevski ² , Augustin Hong ² , Devendra Sadana ² , and Supratik Guha ² 소속: ¹ Department of Materials Science and Engineering, KAIST, ² IBM T. J. Watson Research Center
W	L2-J-3	14:05-14:20	A Facile Synthesized 3D Silicon Nano Membrane for Lithium Ion Anode Materials 저자: Fan Xia, Jung Min Lee, and Won II Park 소속: Division of Material Science and Engineering, Hanyang University

R. Semiconductor Software 분과

[WC3-R] Software Technique for Persistent Memory

Date	Feb. 26, 2014 (Wed.)	
Place	Room C / 제1공학관 401호 (# 401, Engineering Building I)	

Session Chair: 원유집 교수(한양대학교), 이소윤 교수(이화여자대학교)

WC3-R-1	15:50-16:05	Write-Traffic-Aware Cache Management for Phase-Change Memory 저자: Seunghoon Yoo ¹ , Eunji Lee ² , and Hyokyung Bahn ³ 소속: ¹ Korea Air Force Academy, ² Samsung Electronics Co., Ltd., ³ Ewha Womans University
WC3-R-2	16:05-16:20	Characterizing Memory References for Smartphone Applications 저자: Soyoon Lee and Hyokyung Bahn 소속: Department of Computer Science and Engineering, Ewha Womans University
WC3-R-3	16:20-16:35	Page Caching of Web Browser using NVRAM 저자: Taeho Nam and Taeseok Kim 소속: Department of Computer Engineering, Kwangwoon University
WC3-R-4	16:35-16:50	Efficient Metadata Management Method for Flash Memory Based Filesystem using BPRAM 저자: Jinsoo Yoo and Youjip Won 소속: Department of Software Engineering, Hanyang University

C. Materials Growth & Characterization 분과

[WD3-C] Growth of Single Crystalline Semiconductor

소속: ㈜디엔에프

Date	Feb. 26, 2014	4 (Wed.)
Place	Room D / 제 '	1공학관 402호 (# 402, Engineering Building I)
		Session Chair: 권순용 교수(UNIST), 박진섭 교수(한양대학교)
WD3-C-1	15:50-16:05	Single Crystalline Ge Heteroepitaxy on Hastelloy Substrate via Laser- Induced Melting and Solidification 저자: Yong-Hoon Son, Sangsoo Lee, and Euijoon Yoon 소속: Department of Materials Science and Engineering, Seoul National University
WD3-C-2	16:05-16:20	Seed Shape Dependence of Ingot Crystalline Characteristics in Single- Crystal Sapphire Ingot Grown by Kyropoulos Method 저자: Jun-Seong Park, II-Hwan Kim, Gon-Sub Lee, and Jea-Gun Park 소속: Department of Electronics and Communication Engineering, Hanyang University
WD3-C-3	16:20-16:35	Strained Si:C Epi 층에서 Dopant 가 Carbon 고용도에 미치는 영향 분석 저자: Taeone Youn ¹ , Taekwon Lee ¹ , Jaegeun Oh ² , Juhee Lee ¹ , Sujin Kong ¹ , Won Kim ¹ , and Hojoung Kim ¹ 소속: ¹ Analysis Team, SK hynix Inc., ² NMProcess S-Team, SK hynix Inc.
WD3-C-4	16:35-16:50	Plasma Enhanced Atomic Layer Deposition of Low Temperature Silicon Oxide using New Cyclodisilazane Structure Precursors 저자: 김성기, 양병일, 장세진, 김종현, 김도연, 조성우, 석장현, 이상익, 김명운

D. Thin Film Process Technology 분과

[WE3-D] Thin-Film Process

	Date	Feb. 26, 2014 (Wed.)		
	Place	Room E / 제1공학관 403호 (# 403, Engineering Building I)		
			Session Chair: 최창환 교수(한양대학교), 박태주 교수(한양대학교)	
WE3-D-1		15:50-16:05	Electrical Properties of ALD La2O3-Capped High-K/Metal Gate Device 저자: Donghwan Lim ¹ , Woosuk Jung ¹ , Moon-Suk Choi ¹ , Dohyung Kim ¹ , Youngil Gil ¹ , Chulwon Chung ² , and Changhwan Choi ¹ 소속: ¹ Division of Materials Science and Engineering, Hanyang University, ² Department of Energy Engineering, Hanyang University	
WE3-D-2		16:05-16:20	Oxidizing Agent Effects in Atomic Layer Deposition of HfxZr1-xO2 Thin Films with High Dielectric Constant 저자: 최민정 ¹ , ² , 박형호 ² , 김성근 ¹ 소속: ¹ 한국과학기술연구원 전자재료연구센터 ² 연세대학교 신소재공학과	
W	E3-D-3	16:20-16:35	Stabilization of Negative Capacitance in Ferroelectric Thin Films 저자: Yu Jin Kim, Min Hyuk Park, Han Joon Kim, Tae Hwan Moon, and Cheol Seong Hwang 소속: Department of Material Science & Engineering and Inter university Semiconductor Research Center, Seoul National University	
WE3-D-4		16:35-16:50	Effect of NH3 Plasma Treatments on Deposition of Nickel Film by Chemical Vapor Deposition 저자: Jingyu Park ¹ , Heeyoung Jeon ¹ , Hyunjung Kim ¹ , Jinho Kim ² , Woochool Jang ² , and Hyeongtag Jeon ¹ , ² 소속: ¹ Department of Nano-scale Semiconductor Engineering, Hanyang University, ² Department of Materials Science and Engineering, Hanyang University,	
W	E3-D-5	16:50-17:05	Analysis of a Reaction Mechanism of Oxide Layer Removal using Reactive Gas 저자: Hyuntae Kim ¹ , Jungsoo Lim ¹ , Min-Su Kim ¹ , and Jin-Goo Park ^{1,2} 소속: ¹ Department of Bionano Technology, Hanyang University, ² Department of Materials Engineering, Hanyang University	

E. Compound Semiconductors 분과

[WF3-E] Compound Semiconductor III

Date	Feb. 26, 2014 (Wed.)
Place	Room F / 제1공학관 404호 (# 404, Engineering Building I)

Session Chair: 김제원 박사(삼성전자),

WF3-E-1	15:50-16:05	Graphene-Silver Nanowire Hybrid Structure as a Transparent and Current Spreading Electrode in Ultraviolet Light Emitting Diodes 저자: Tae Hoon Seo, Ah Hyun Park, Bo Kyoung Kim, GangU Shin, Seul Bee Lee, Gun Hee Lee, and Eun-Kyung Suh 소속: School of Semiconductor and Chemical Engineering, Chonbuk National University
WF3-E-2	16:05-16:20	Tapered Laser Diode with Linear Effective-Refractive-Index Variation Waveguide 저자: Duchang Heo ¹ , Seongche Jeon ¹ , Yun-Seok Kwak ² , Seong-Wook Ryu ² , and Tae-kyung Kim ² 소속: ¹ Korea Electrotechnology Research Institute, ² QSI laser Co., Ltd.
WF3-E-3	16:20-16:35	Current Crowding Improvement of InGaN-based Blue Light-Emitting Diodes by Modifying Metal Contact Geometry 저자: Garam Kim, Jang Hyun Kim, Euyhwan Park , and Byung-Gook Park 소속: Department of Electrical Engineering and Computer Science, Seoul National University
WF3-E-4	16:35-16:50	Role of V-Defect on Internal Quantum Efficiency of InGaN LEDs 저자: Yong-Hee Cho, Mun-bo Shim, Sangheum Hwang, and Sungjin Kim 소속: Computational Science Group, SAIT, Samsung Electronics
WF3-E-5	16:50-17:05	Effects of Surface Damage on Raman Spectrum of Etched InSb(100) Surface 저자: Chulkyun Seok ¹ , Minkyung Choi ² , Jinwook Jung ¹ , Sehun Park ¹ , Yongjo Park ³ , In-Sang Yang ² , and Euijoon Yoon ¹ 소속: ¹ Department of Materials Science and Engineering, Seoul National University, ² Department of Physics, Ewha Womans University, ³ Advanced Institutes of Convergence Technology
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O. System LSI Design 분과

[WG3-O] VLSI System Design and Applications III

Date	Feb. 26, 2014 (Wed.)
Place	Room G / 제1공학관 405호 (# 405, Engineering Building I)

Session Chair: 김지훈 교수(충남대학교), 김아름 연구원(삼성전자)

WG3-O-1	15:50-16:05	HyperX 구조를 이용한 저전력 256-Radix Crossbar Switch의 -설계 저자: 백승헌, 김재하 소속: 서울대학교 전기정보공학부, 서울대학교 반도체공동연구소
WG3-O-2	16:05-16:20	The New Test Method for Flip-Flops 저자: 김아름, 박진수, 정건옥, 김민수, 김태형, 김정희, 김용걸, 한상신, 조욱래, 신영민 소속: Samsung Electronics Co., Ltd.
WG3-O-3	16:20-16:35	Adaptive Tracking Algorithm of Autonomous Power Management 저자: Soo-Yong Kim ^{1,2} , Chaehag Yi ¹ , Huijung Kim ¹ , Keunhwi Koo ² , Sang Woo Kim ² , and Suk Won Kim ¹ 소속: ¹ Modem and Connectivity Business Team, Samsung Electronics Co., Ltd., ² Department of Electrical Engineering, Pohang University of Science and Technology

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N. VLSI CAD 분과

[WJ3-N] Memory & Architecture

	Date	Feb. 26, 2014 (Wed.)		
	Place	Room J / 제1	공학관 501호 (# 501, Engineering Building I)	
			Session Chair: 이종은 교수(UNIST), 김윤진 교수(숙명여자대학교)	
W	J3-N-1	15:50-16:05	A Dual-Retention Time Architecture towards Secure and High Performance STT-RAM Main Memory Subsystem 저자: Taemin Lee, Sungjoo Yoo, and Sunggu Lee 소속: Department of Electrical Engineering, Pohang University of Science and Technology	
W	J3-N-2	16:05-16:20	LPDDR2-NVM 기반의 상변화 메모리 시스템 설계 저자: Jaehyun Park and Naehyuck Chang 소속: Department of Electrical Engineering and Computer Science, Seoul Nationa University	
W	J3-N-3	16:20-16:35	New Processing Element for Imperfect Nested Loops on Coarse Grained Reconfigurable Architecture 저자: Seongseok Seo, Hyeonuk Sim, and Jongeun Lee 소속: School of Electrical & Computer Engineering, Ulsan National Institute of Science and Technology	
W	J3-N-4	16:35-16:50	Intra/Inter-CGRA Co-Reconfiguration for Efficient CGRA-Based Multi-Core Architecture ¹ 저자: Heesun Kim, Seungyun Sohn, and Yoonjin Kim 소속: Department of Computer Science, Sookmyung Women's University	
W	J3-N-5	16:50-17:05	FPGA Prototyping of Programmable Regular Iterator Generator 저자: Hyeonuk Sim, Seongseok Seo, and Jongeun Lee 소속: School of Electrical & Computer Engineering, Ulsan National Institute of Science and Technology	

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K. Memory (Design & Process Technology) 분과

[WK3-K] Resistive Memory Devices for Cross-Point Array

Date	Feb. 26, 2014 (Wed.)
Place	Room K / 제1공학관 502호 (# 502, Engineering Building I)

Session Chair: 김수길 박사(SK hynix), 백승재 교수(한경대학교)

WK3-K-1	15:50-16:05	Excellent Non-Linear I-V Characteristics of Ti/HfOx ReRAM with Ultrathin TiO_y Tunnel Barrier for Cross Point Memory Application 저자: Nusrat Tamanna, Saiful Haque Misha, Amit Prakash, Daeseok Lee, Jiyoung Woo, Euijun Cha, Jeonghwan Song, Kibong Moon, and Hyunsang Hwang 소속: Department of Materials Science and Engineering, Pohang University of Science and Technology
WK3-K-2	16:05-16:20	Characterization of γ-Fe₂O₃ Memristors via Physics-Based Empirical I-V Model 저자: Yun Hyeok Kim ¹ , Dae Guen Kim ¹ , Jae-Deuk Kim ² , Sung-Jin Choi ¹ , Dong Myong Kim ¹ , Tae-Sik Yoon ² , and Dae Hwan Kim ¹ 소속: ¹ School of Electrical Engineering, Kookmin University, ² Department of Materials Science and Engineering, Myongji University
WK3-K-3	16:20-16:35	Identification of Controlling Parameters on Self-Compliance Resistive Switching in a Pt/TaO_x/Ta₂O₅/Pt Structure 저자: Taehyung Park, Seul Ji Song, Jun Yeong Seok, Jung Ho Yoon, Kyung Jean Yoon, Dae Eun Kwon, and Cheol Seong Hwang 소속: Department of Material Science and Engineering, Seoul National University
WK3-K-4	16:35-16:50	Cu₂O-Based Conductive Bridging Random-Access-Memory 저자: Ki-Hyun Kwon ¹ , Hyun-Min Seung ¹ , Kyoung-Cheol Kwon ² , Jong-Sun Lee ¹ , Myung-Jin Song ¹ , Han-Vit Jeoung ¹ , Young-Hye Son ¹ , and Jea-Gun Park ^{1,2} 소속: ¹ Department of Electronics and Computer Engineering, Hanyang University, ² Department of Nanoscale Semiconductor Engineering, Hanyang University
WK3-K-5	16:50-17:05	Evolution of the Shape of the Conducting Channel in Complementary Resistive Switching Transition Metal Oxides 저자: Kyung Jean Yoon, Seul Ji Song, Jun Yeong Seok, Jung Ho Yoon, Tae Hyung Park, Dae Eun Kwon, and Cheol Seong Hwang 소속: Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University

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J. Nano-Science & Technology 분과

[WL3-J] 에너지

	Date	Feb. 26, 2014	Feb. 26, 2014 (Wed.)		
	Place Room L / 제1공학관 503호 (# 503, Engineering Building I)				
			Session Chair: 김상우 교수(성균관대학교), 신병하 교수(KAIST)		
w	L3-J-1	15:50-16:20	Heater-Less Operation of Chemoresistive Sensors Based on Thin Film Nanostructures: Extremely Low Power Consumption for Mobile Applications 저자: Ho Won Jang 소속: Department of Materials Science and Engineering, Seoul National University		
w	L3-J-2	16:20-16:35	The Study of Thermoelectric Properties in n- and p-Type Silicon Nanowire Thermoelectric Devices 저자: Soojung Kim ^{1,2} , Hyojin Jeon ^{1,2} , Wonchul Choi ^{1,3} , Dongsuk Jun ¹ , and Moongyu Jang ^{1,2} 소속: ¹ Novel Materials and Devices Research center, Electronics and Telecommunications Research Institute, ² Department of Advanced Device Technology, University of Science & Technology, ³ Department of Electrical Engineering, KAIST		
W	L3-J-3	16:35-16:50	수직자기이방성을 갖는 MgO/Co/Pd 구조에서 열처리를 통한 계면 구조 변화가 스피-레드 경하에 미치는 영향		

스핀-궤도 결합에 미치는 영향 저자: 김민석, 김상훈, 홍종일 소속: 연세대학교 공과대학 신소재공학과

WL3-J-4 16:50-17:05 Influence of Ni and Cu Contaminants in the Colloidal Silica Slurry for Efficient Silicon Wafer Polishing 저자: Eun-Bin Seo, Hao Cui, Jin-Hyung Park, and Jea-Gun Park 소속: Advanced Semiconductor Materials and Devices Development Center Department of Electronic Engineering, Hanyang University

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R. Semiconductor Software 분과

[WC4-R] Software Technique for NAND Flash Based Storage

	Date	Feb. 26, 2014	Feb. 26, 2014 (Wed.)	
	Place	Room C / 제1공학관 401호 (# 401, Engineering Building I)		
			Session Chair: 백승제 교수(단국대학교), 김태석 교수(광운대학교)	
W	C4-R-1	17:15-17:30	Clone-Resistant Identity for Non-Volatile Self-Reconfiguring SoC Units 저자: W. Adi and S. Zeitouni 소속: University of Braunschweig	
W	C4-R-2	17:30-17:45	Reverse Engineering Essential SSD Characteristics 저자: Seongjin Lee and Youjip Won 소속: Department of Electronics and Computer Engineering, Hanyang University	
W	C4-R-3	17:45-18:00	Effect of Flash-Based SSD in Virtualized Hadoop 저자: Sangkyu Park, Jae-Ki Hong, Sungyong Ahn, Jongwon Yi, and Wooseok Chang 소속: DS Software R&D Center,Samsung Electronics Co., Ltd.	
W	C4-R-4	18:00-18:15	SSD를 위한 트랜잭션 기반 펌웨어 구현 저자: 정영진, 김종화, 최종무 소속: Department of Computer Science, Dankook University	

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Q. Metrology, Inspection, and Yield Enhancement 분과

[WD4-Q] Metrology and Inspection

Date	Feb. 26, 2014 (Wed.)
Place	Room D / 제1공학관 402호 (# 402, Engineering Building I)

Session Chair: 유형원 수석(SK hynix), 김호섭 교수(선문대학교)

WD4-Q-1 WD4-Q-2	17:15-17:45 17:45-18:00	Wafer Defect Inspection by Multi-Level Thresholding of SEM Images 저자: Sunghyon Kim ¹ , Minwoo Kim ² , and Ilseok Oh ^{1,2} 소속: ¹ Department of Nano Technology, Chonbuk National University, ² Department of Computer Engineering Graduate School, Chonbuk National University
WD4-Q-3	18:00-18:15	저전압 TEM 측정을 이용한 그래핀 형상 및 결정립 관찰 저자: 조영지 ^{1,3} , 양준모 ¹ , Do Van Lam ² , 이승모 ² , 김재현 ² , 박윤창 ¹ , 장지호 ³ 소속: ¹ 나노종합기술원, ² 한국기계연구원, ³ 한국해양대학교 응용과학과
WD4-Q-4	18:15-18:30	Accelerating Defect Inspection Technology by Next-Generation Inspection Platforms 저자: Jeongho Ahn, Shijin Seong, Hyungseop Kim, Dong-Ryul Lee, Heewon Sunwoo, Dong-chul Ihm, and Soobok Chin 소속: Process Development Team, Semiconductor R&D Center, Samsung Electronics Co., Ltd.

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L. Analog Design 분과

[WF4-L] 아날로그 및 혼성 신호 회로 설계 2

Date	Feb. 26, 2014 (Wed.)
Place	Room F / 제1공학관 404호 (# 404, Engineering Building I)

Session Chair: 안길초 교수(서강대학교), 백광현 교수(중앙대학교)

WF4-L-1	17:15-17:30	A Robust DC-DC Converter Protection Scheme for Enhanced PMIC Reliability 저자: Yoo-Jun Jeong, Sang-Ik Cho, Hyoung-Seok Oh, and Byeong-Ha Park 소속: Power Device Development Team, System LSI Division, Samsung Electronics Co., Ltd.
WF4-L-2	17:30-17:45	A Digitally-Controlled, Glitch-Free, 5-GHz Phase Interpolator 저자: Chang Soo Yoon, Woorham Bae, and Deog-Kyoon Jeong 소속: Chang Soo Yoon, Woorham Bae, and Deog-Kyoon Jeong
WF4-L-3	17:45-18:00	저전력 대 출력 신호 스위치드 캐패시터 앰프 설계 저자: 이현의 ¹ , 최정환 ¹ , Masaya Miyahara ² , and Akira Matsuzawa ² 소속: ¹ 삼성전자 메모리사업부, ² 동경공업대학교 이공학연구과
WF4-L-4	18:00-18:15	A SUC-Based 10 bit 1 GS/s Current Steering DAC in 0.042 mm ² 저자: 김시내, 김미란, 류승탁 소속: KAIST, 전기 및 전자공학과
WF4-L-5	18:15-18:30	A Single-Inductor Multiple-Output (SIMO) DC-DC Converter with Wide Operation Voltage Range for Mobile Devices 저자: Whan-Seok Seo, Hyun-A Ahn, Young-Ho Jung, Ki-Soo Nam, Jae-Hyung Jung, Seong-Kwan Hong, and Oh-Kyong Kwon 소속: Department of Electronic Engineering, Hanyang University

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N. VLSI CAD 분과

[WJ4-N] Simulation & Testing

Date	Feb. 26, 2014	Feb. 26, 2014 (Wed.)		
Place	Room J / 제1	Room J / 제1공학관 501호 (# 501, Engineering Building I)		
		Session Chair: 김윤진 교수(숙명여자대학교), 이종은 교수(UNIST)		
WJ4-N-1	17:15-17:30	HetNoC3D: A User Friendly Simulation Framework for Homogeneous and Heterogeneous 3D NoC Architectures 저자: Michael Opoku Agyeman and Ali Ahmadinia 소속: School of Engineering and Built Environment, Glasgow Caledonian University		
WJ4-N-2	17:30-17:45	Database 성능 평가를 위한 SQLite Trace 추출 환경 저자: 이성광, 유승주, 이승구 소속: Department of Electronic Engineering, Pohang University of Science and Technology		
WJ4-N-3	17:45-18:00	Module Regrouping for Minimizing Wrapper Cells in SoC Testing 저자: 김상민 ¹ , 홍정민 ¹ , 신영수 ¹ , 배상민 ² , 소속: ¹ KAIST, 전기및전자공학과, ² LG전자		
WJ4-N-4	18:00-18:15	Accurate Frequency Spectrum Analysis of Event-Driven Simulation Results of Analog/Mixed-Signal Circuits 저자: Junsuk Kim, Ji-Eun Jang, and Jaeha Kim 소속: Department of Electrical and Computer Engineering, Seoul National University		

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K. Memory (Design & Process Technology) 분과

[WK4-K] ReRAM Selectors, PCRAM Model, and DRAM Macro

Date	Feb. 26, 2014 (Wed.)
Place	Room K / 제1공학관 502호 (# 502, Engineering Building I)

Session Chair: 김택승 박사(SK hynix), 조우영 박사(삼성전자)

WK4-K-1	17:15-17:30	Highly Uniform, Electroforming-Free, and Self-Rectifying Resistive Memory in Pt/Ta ₂ O ₅ /HfO _{2-x} /TiN Structure 저자: Jung Ho Yoon, Seul Ji Song, II-Hyuk Yoo, Jun Yeong Seok, Kyung Jean Yoon, Tae Eun Kwon, Tae Hyung Park, and Cheol Seong Hwang 소속: Seoul National University
WK4-K-2	17:30-17:45	S-doped TiO ₂ as a Selection Diode for ReRAM 저자: Dae Eun Kwon ¹ , Jong Ho Lee ² , Jung Ho Yoon ¹ , Seul Ji Song ¹ , Kyung Jean Yoon ¹ , Tae Hyung Park ¹ , Tae Joo Park ³ , and Cheol Seong Hwang ¹ 소속: ¹ Department of Materials Science and Engineering, Seoul National University, ² Department of Materials Science and Engineering, University of Pennsylvania, ³ Department of Materials Engineering, Hanyang University
WK4-K-3	17:45-18:00	Metal-Insulator-Transition in Nano Scale SmNiO ₃ for Selector Application with BEOL Compatibility 저자: Saiful Haque Misha, Nusrat Tamanna, Euijun Cha, Daeseok Lee, Amit Prakash, Jiyong Woo, Jeonghwan Song, and Hyunsang Hwang 소속: Department of Materials Science and Engineering, Pohang University of Science and Technology
WK4-K-4	18:00-18:15	Modeling of Crystalline Morphology in Mixed-Phase Ge₂Sb₂Te₅ from Electrical Characterization 저자: Sanghyeon Lee, Gwihyun Kim, Seungwoo Hong, and Seung Jae Baik 소속: Department of Electrical, Electronic and Control Engineering, Hankyong National University
WK4-K-5	18:15-18:30	A 1.2-V 2T Embedded DRAM Macro in Generic Logic CMOS Technology 저자: Weijie Cheng, Baolong Zhou, Huarong Zheng, and Yeonbae Chung 소속: School of Electronics Engineering, Kyungpook National University

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Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)
TP1-1	Intercalation of CVD Graphene for interconnects 저자: 최동철, 박재현, 김혜지, 이원준, 정종완 소속: 세종대학교 나노신소재공학과
TP1-2	Development of Post-CMP Cleaning Solution for Interconnect Application 저자: Young-Gil Seo ¹ , Byoung-Jun Cho ² , Manivannan Ramachandran ¹ , and Jin-Goo Park ^{1,2} 소속: ¹ Department of Materials Engineering, Hanyang University, ² Department of Bio- Nano Technology, Hanyang University
TP1-3	Performance Enhancement for Ag Nanowire-Based Transparent Conductor using TiO₂:Cs Sol-Gel 저자: Sunho Kim ¹ , Sekwon Na ¹ , Jun-gu Kang ¹ , Haekyoung Kim ² , and Hoo-Jeong Lee ¹ 소속: ¹ School of Advanced Materials Science and Engineering, SungKyunKwan University, ² School of Materials Science and Engineeting, Yeungnam University
TP1-4	Chemical Vapor Deposition of Molybdenum Thin Film for Copper Interconnect 저자: Jae-Min Park ¹ , Clement Lansalot-Matras ² , and Won-Jun Lee ¹ 소속: ¹ Faculty of Nanotechnology and Advanced Materials Engineering, Sejong University, ² Air Liquide Laboratories Korea
TP1-5	Atomic Layer Deposition of Highly Conformal and Amorphous W-Si-N Thin Films using a Novel Metallorganic Precursor and Application to a Diffusion Barrier for Advanced Cu Interconnects 저자: Jae-Hun Jung ¹ , Taek Mo Jung ² , Chang Gyun Kim ² , So Jeong Yeo ² , Taehoon Cheon ^{1,3} , Sang-Kyung Choi ⁴ , and Soo-Hyun Kim ¹ 소속: ¹ School of Materials Science and Engineering, Yeungnam University, ² Advanced Materials Division, Korea Research Institute of Chemical Technology, ³ Center for Core Research Facilities, Deagu Gyeongbuk Institute of Science & Technology, ⁴ Center for Research Facilities, Chungnam National University
TP1-6	Enhancement of Thermal Stability of Ytterbium Silicide by Alloying with Molybdenum 저자: Jun-Gu Kang, Sekwon Na, Juyun Choi, Hyungsub Kim, and Hoo-Jeong Lee 소속: School of Advanced Materials Science and Engineering, Sungkyunkwan University
TP1-7	Cu Electroless Deposition on the Ta Substrate Through Pd Activation Assisted by Ultrasound 저자: Kanghoon Kim ¹ , Taeho Lim ² , Kwang Hwan Kim ² , Hyunjoon Lee ¹ , Jae Jeong Kim ² , and Oh Joong Kwon ¹ 소속: ¹ Department of Energy and Chemical Engineering, Incheon National University, ² School of Chemical and Biological Engineering, Seoul National University

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Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)
TP1-8	Effect of Complexing Agents on Internal Stress and Electrical Resistivity of Electroless Copper Layer 저자: Chang-myeon Lee, Jun-Mi Jeon, and Hong-kee Lee 소속: Incheon Regional Division, Korea Institute of Industrial Technology
TP1-9	A Study on the Improvement of Adhesion for the Direct Electroless Copper Plating 저자: Jin-Young Hur, Chang-Myeon Lee, Ho-Nyun Lee, and Hong-Kee Lee 소속: Heat Treatment & Plating Technology Center, Korea Institute of Industrial Technology
TP1-10	Verilog-A를 이용한 STT-MRAM 셀의 매크로 모델링 저자: 김경민, 유창식 소속: 한양대학교 전자컴퓨터통신공학과
TP1-11	Study on Physical Mechanism on the Positive Bias Stress-Induced Degradation of Amorphous InGaZnO Thin-Film Transistors with Density-of-States Based Characterization 저자: Chunhyung Jo, Hyeongjung Kim, Sungwoo Jun, Dong Jae Shin, Kyung Min Lee, Jaeman Jang, Jaewook Lee, Juntae Jang, Sungju Choi, Sung-Jin Choi, Dong Myong Kim, and Dae Hwan Kim 소속: School of Electrical Engineering, Kookmin University
TP1-12	Degradation and Breakdown of MgO Magnetic Tunnel Junction 저자: Jungmin Lee, Chulmin Choi, Kyuhyun Gil, and Yunheub Song 소속: Department of Electronic Engineering, Hanyang University
TP1-13	Substrate Doping Concentration Dependence of Electron Mobility Enhancement in Uniaxial Strained (110)/<110> nMOSFETs 저자: Wookyung Sun, Sujin Choi, and Hyungsoon Shin 소속: Department of Electronics Engineering, Ewha Womans University
TP1-14	Influence of the Poly-Si/SiO₂ Interface Traps on the Program/Erase Characteristics of 3D SONOS NAND Flash Memories 저자: Jeongsu Lee ¹ , Seonjun Choi ² , and Seung-Beck Lee ^{1,2,3} 소속: ¹ Department of Nanoscale Semiconductor Engineering, Hanyang University, ² Department of Electronic Engineering, Hanyang University, ³ Institute of Nano Science and Technology, Hanyang University
TP1-15	Electrical Characteristic Variations of FinFETs Dependent on the Fin Shape 저자: Ju Tae Ryu and Tae Whan Kim 소속: Department of Electronics and Computer Engineering, Hanyang University
TP1-16	Demonstration of Neuron Spike Model using Memristive MTJ Element 저자: Sungmin Hwang, Dong Ik Suh, Junwoo Lee, and Wanjun Park 소속: Department of Electronic Engineering, Hanyang University

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Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)
TP1-17	Device Design of Short Channel Tunneling Field-Effect Transistor for Low Standby Power Application 저자: Hye Rim Eun ¹ , Young Jun Yoon ¹ , Jae Hwa Seo ¹ , Hee-Sung Kang ¹ , Eou-Sik Cho ² , Seongjae Cho ² , Jung-Hee Lee ¹ , and In Man Kang ¹ 소속: ¹ School of Electronics Engineering, Kyungpook National University, ² Department of Electronics Engineering, Gachon University
TP1-18	Simulation of the Installation Process of Solid-State Drives to Improve Their Mechanical Reliability 저자: Jinwoo Jang, Yusuf Cinar, Juyub Lee, and Gunhee Jang 소속: Department of Mechanical Engineering, Hanyang University
TP1-19	Theoretical Study on Organic Light Emitting Diodes with Micro-Cavity Structure 저자: Young-Wook Hwang, Hyeon-Gi Lee, and Tae-Young Won 소속: Department of Electrical Engineering, Inha University
TP1-20	The Enlargement of Process Window by using Source Optimization 저자: Du Hyun Beak, Jin Phil Choi, Tony Park, Young Seog Kang, and Hun Hwan Ha 소속: Samsung Electronics Co., Ltd.
TP1-21	Computational Study on Behaviors of Carrier in OLED Devices with Thin CuPc Layer 저자: Hyeongi Lee, Youngwook Hwang, and Taeyoung Won 소속: Department of Electrical Engineering, Inha University
TP1-22	Constant Current Stress-Induced Instability of the Top-Gate IZO TFTs for AMOLED Displays 저자: Sungju Choi, Jaeman Jang, Hyeongjung Kim, Juntae Jang, Jaewook Lee, Chunhyung Jo, Sungwoo Jun, Kyung Min Lee, Dong Jae Shin, Sung-Jin Choi, Dong Myong Kim, and Dae Hwan Kim 소속: School of Electrical Engineering, Kookmin University
TP1-23	다층 PCB 휨 거동 예측을 위한 패턴 모델링 및 해석기법 개발 저자: 김도형 ¹ , 주성준 ¹ , 이준희 ² , 곽동옥 ² , 김학성 ^{1,3} 소속: ¹ Department of Mechanical Engineering, Hanyang University, ² Memory Division, Samsung Electronics Co., Ltd. ³ Institute of Nano Science and Technology, Hanyang University
TP1-24	Design and Analysis of Gate-Recessed Double Heterojunction AlGaN/GaN Field-Effect Transistor 저자: Hye Su Kang ¹ , Jae Hwa Seo ¹ , Young Jun Yoon ¹ , Hwan Gi Lee ¹ , Gwan Min Yoo ¹ , Young Jae Kim ¹ , Sung Yoon Kim ¹ , Sung Yun Woo ¹ , Hee Bum Roh ¹ , Hye Rim Eun ¹ , Seongjae Cho ² , Jung-Hee Lee ¹ , and In Man Kang ¹ 소속: ¹ School of Electronics Engineering, Kyungpook National University, ² Department of Electronics Engineering, Gachon University

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Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)
TP1-26	Pixel Circuit with a-IGZO TFT for AMOLED 저자: Jae-Pyo Lee ¹ , Kyeong-Min Yu ¹ , Jin Nyoung Jang ² , MoonPyo Hong ² , and Byung Seong Bae ¹ 소속: ¹ Department of Display Engineering, Hoseo University, ² Department of Display and Semiconductor Physics, Korea University
TP1-27	Effect of Gate/Drain Voltage Configuration on Electrical Degradation of the Bottom-Gate In-Ga-Zn-O Thin-Film Transistors Driving AMOLED Displays 저자: Hyeongjung Kim, Jaeman Jang, Jaewook Lee, Chunhyung Jo, Sungwoo Jun, Kyung Min Lee, Dong Jae Shin, Juntae Jang, Sungju Choi, Sung-Jin Choi, Dong Myung Kim, and Dae Hwan Kim 소속: School of Electrical Engineering, Kookmin University
TP1-28	A Two-Step Set Operation for Reliability of ReRAM with Triple-Layer ReRAM 저자: Sangheon Lee, Daeseok Lee, Jiyong Woo, Euijun Cha, and Hyunsang Hwang 소속: Department of Materials Science and Engineering, Pohang University of Science and Technology
TP1-29	Investigation of the Deposition of Sb-Te Phase Change Film Inside the Trench Structure by the Screen Remote Plasma-Enhanced Atomic Vapor Deposition 저자: Jin Hwan Jeong, Su Bin An, and Doo Jin Choi 소속: Department of Material Science and Engineering, Yonsei University
TP1-30	Bipolar Resistive Switching of Ge₂Sb₂Te₅ and Ge₂Sb₂Te7 Thin Films without Involving Obvious Phase Change 저자: Sijung Yoo, Taeyong Eom, Taehong Gwon, and Cheol Seong Hwang 소속: Department of Materials Science and Engineering, Seoul National University
TP1-31	Improvement of Unipolar Resistive Switching Characteristics in Al/Ge_{0.5}Se_{0.5}/Pt Structure by using Ag Nanocrystals 저자: Jang-Han Kim, Ki-Hyun Nam, Won-Ju Cho, and Hong-Bay Chung 소속: Department of Electronic Materials Engineering, Kwangwoon University
TP1-32	Fabrication of Solution Processed Al-Doped HfO_x ReRAM 저자: Jung-Hoon Park, Jang-Han Kim, and Won-ju Cho 소속: Department of Electronic Materials Engineering, Kwangwoon University
TP1-33	Characteristics of Resistive Switching Depending on Localized Conducting Filaments 저자: Yeon Soo Kim, Sangik Lee, Jihoon Jeon, Chansoo Yoon, Taejun Oh, Keundong Lee, YoonSeung Nam, and Bae Ho Park 소속: Department of Physics, Konkuk University

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Date	Feb. 25, 2014 (Tue.)
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)
TP1-34	Switchable Schottky Diode and Resistive Switching Characteristics in Mn-Doped ZnO Thin Films 저자: YoonSeung Nam, ChanSoo Yoon, JiHoon Jun, Sanglk Lee, KeunDong Lee, TaeJoon Oh, GwangTaek Oh, and Bae Ho Park 소속: Department of Division of Quantum Phases and Devices, Konkuk University
TP1-35	Effect of Non-Lattice Oxygen Concentration on Non-Linear Resistive Switching Characteristic of HfO₂ Films 저자: Jonggi Kim, Yongjae Kim, Kyumin Lee, and Hyunchul Sohn 소속: Department of Materials Science & Engineering, Yonsei University
TP1-36	Non-Linear Resistive Switching Characteristic Based on ZnSe Selector for Eliminating Sneak Current in Cross-Bar ReRAM Device 저자: Youngjae Kim, Jonggi Kim, Yoonki Min, and Hyunchul Sohn 소속: Department of Materials Science & Engineering, Yonsei University
TP1-37	Influence of Trap States on Transport and Photoresponse of Resistive Switching Pt/Nb:STO Schottky Junctions 저자: Yoonjung Kim, Haeri Kim, and Dong-Wook Kim 소속: Department of Physics, Ewha Womans University
TP1-38	Non-Lattice Oxygen Ion Driven Negative Differential Resistance Behavior for the Future ReRAM Applications 저자: Yoon Cheol Bae ¹ , Ah Rahm Lee ¹ , Gwang Ho Baek ¹ , Je Bock Chung ¹ , Won Bae Koo ² , and Jin Pyo Hong ² 소속: ¹ Division of Nano-Scale Semiconductor Engineering, Hanyang University, ² Department of Physics, Hanyang University
TP1-39	TiO_xN_y Electrode Interface-Driven Dual-Resistive Switching Behaviors of Pt/ Ta₂O_{5-x}/TiO_xN_y Cell for the Future ReRAM Applications 저자: Ah Rahm Lee ¹ , Yoon Cheol Bae ¹ , Gwang Ho Baek ¹ , Je Bock Chung ¹ , and Jin Pyo Hong ^{1,2} 소속: ¹ Division of Nano-Scale Semiconductor Engineering, Hanyang University, ² Department of Physics, Hanyang University
TP1-40	Area-Efficient, Power-Efficient Program Voltage Generator for 3D Solid State Drive with NAND Flash Memories 저자: Youngil Kim ¹ , Sungwook Choi ² , and Sangsun Lee ¹ 소속: ¹ Department of Nanoscale Semiconductor Engineering, Hanyang University, ² Flash Development Division, SK hynix Inc.
TP1-41	Selective Etching of MTJ Materials using CO/NH3 Gas Mixture in Pulse-biased Inductively Coupled Plasmas 저자: Minhwan Jeon and Geunyoung Yeom 소속: Sungkyunkwan University Advanced Institute of Nano Technology, Sungkyunkwan University

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Date	Feb. 25, 2014 (Tue.)	
Place	Room I / 제1공학관 408호 (# 408, Engineering Building I)	
TP1-42	The Study of Scalable Three-Dimensional NAND Flash Structure using Edge Fringing Field 저자: Hyungjun Yang, Gaehun Lee, and Yunheub Song 소속: Department of Electronic Engineering, Hanyang University	
TP1-43	Current-Induced Synchronized Switching of Magnetization 저자: Soo-Man Seo ¹ , Jung-Hwan Moon ¹ , Seung-Jae Lee ¹ , and Kyung-Jin Lee ^{1,2} 소속: ¹ Department of materials science and engineering, Korea University, ² KU-KIST Graduate school of converging science and technology, Korea University	
TP1-44	Ge 기판의 S 처리를 이용한 Charge –Trapping Type 소자의 메모리 특성 연구 저자: Myungwan Lee, Yong Chan Jung, Sejong Seong, In-Sung Park, and Jinho Ahn 소속: Department of Materials Science and Engineering, Hanyang University	
TP1-45	Improved Reliability of RRAM by Optimizing Pulse Shape to Minimize Current Overshoot 저자: Jeonghwan Song, Daeseok Lee, Jiyong Woo, and Hyunsang Hwang 소속: Department of Materials Science and Engineering, Pohang University of Science and Technology	
TP1-46	Real-Time PRBS Chaser 저자: Seok-Min Ye and Deog Kyoon Jeong 소속: Department of Electrical and Computer Engineering, Seoul National University	
TP1-52	High-Accuracy Differential Voltage Amplifier Operating At Wide DC Input Voltage 저자: Tae-Ho Kim, Jae-Mun Oh, Jong-Hyun Yoon, Jin-Won Mok, Jong-Ho Park, Jae- Hyun Shim, Seong-Yong Kim, and Byung-Do Yang 소속: Graduated School of Semiconductor Engineering, Chungbuk University	
TP1-53	Circuit for Preventing Negative Oscillation of Power-Switch with Wide DC Input Voltage 저자: Seong-Yong Kim, Jae-Mun Oh, Jong-Hyun Yoon, Jin-Won Mok, Jong-Ho Park, Jae-Hyun Shim, Tae-ho Kim, and Byung-Do Yang 소속: Graduated School of Semiconductor Engineering, Chungbuk University	
TP1-54	Dual-Mode CMOS Image Sensors for Depth Acquisition and Motion Detection 저자: Kwang-Hyun Lee ¹ , Yibing M. Wang ² , Hongyu Wang ² , Seunghoon Lee ¹ , Dong-Ki Min ¹ , Seokyong Hong ¹ , Sung-Jae Byun ¹ , Hyunil Byun ¹ , Jungbin Yun ¹ , Deokha Shin ¹ , Yohwan Noh ¹ , Wanghyun Kim ¹ , Ilia Ovsiannikov ² , and Taechan Kim ¹ 소속: ¹ Image Development Team, System LSI, Samsung Electronics Co., Ltd. ² Samsung Semiconductor, Inc.	
TP1-55	A Replica-Driving Technique for High Performance SC Circuits 저자: Chang-kyo Lee ¹ , Wan Kim ² , Hyun-wook Kang ² , Jung-hwan Choi ¹ , and Seung-Tak Ryu ² 소속: ¹ Memory Division, Samsung Electronics Co., Ltd., ² Department of Electrical Engineering, KAIST	

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TP1-56	A High Gain and Small Size Comparator Array for Laser Radar Receiver 저자: Jongsun An ^{1,2} , Joo-Young Choi ² , Bongki Mheen ² , and Choul-Young Kim ¹ 소속: ¹ Department of Electronics, Chungnam National University, ² Eletronics and Telecommunications Research Insitute	
TP1-57	A 16-Channel CMOS Transimpedance Amplifier Array for PSL Systems 저자: Xiao Ying, Hanbyul Choi, Seung-Hoon Kim, and Sung Min Park 소속: Department of Electronics Engineering, Ewha Womans University	
TP1-58	LED구동 회로용 온도 히스테리시스를 갖고 있는 고온 탐지기 회로 저자: 김영기, 황재연 소속: 안양대학교 정보통신공학과 대학원	
TP1-59	Cu₂Te as Back Contact Layer in CdS/CdTe Solar Cell 저자: ShinHaeng Cho, SangSu Kim, MinHyuk Park, and JinKi Hong 소속: Department of Applied Physics, Korea University	
TP1-60	Photovoltaic and Electrical Characterization of Cu(In,Ga)Se₂ Thin Film Solar Cells 저자: Ji Eun Kim, Yunae Cho, and Dong-Wook Kim 소속: Department of Physics, Ewha Womans University	
TP1-61	Flat and Thin Heat Dissipation Method for High Power Device 저자: Seok-Hwan Moon ¹ , Kyu-Ho Lee ¹ , Soo-Hyun Hong ¹ , Sang-Choon Ko ¹ , Chi-Hoon Jun ¹ , Jae-Kyoung Mun ¹ , and Hyung-Man Lee ² 소속: ¹ GaN Power Device Research Department, Electronics and Telecommunications Research Institute, ² Korea Electronics Technology Institute	
TP1-62	Photo-Thermal Current in SrRuO₃ Thin Film Device 저자: Ji Ho Sung, Jin Hong Lee, and Moon-Ho Jo 소속: Advanced Materials Science, Pohang University of Science and Technology	
TP1-63	Estimating Electrical and Optical Properties of 1D Metal Grid Transparent Electrode on SiO₂ Substrate 저자: Kilbock Lee and Jinho Ahn 소속: Department of Material Science & Engineering, Hanyang University	
TP1-64	Characterization of Degradation in Cu(In,Ga)Se₂ Photovoltaic Modules under Accelerated Damp Heat 저자: Dong-Won Lee ^{1,2} , Yong-Nam Kim ² , Chi-Hong Park ³ , Kyung-Eun Park ³ , and Won- Ju Cho ¹ 소속: ¹ Department of Electronic Materials Engineering, Kwangwoon University, ² Material Testing Center, Korea Testing Laboratory, ³ Solar Cell Laboratory, LG Innotek Co., Ltd.	

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TP1-65	Changes in the Characteristics of Cu(In,Ga)Se₂ Photovoltaic Modules under Various Accelerated Environmental Tests 저자: Dong-Won Lee ^{1,2} , Yong-Nam Kim ² , Chi-Hong Park ³ , Kyung-Eun Park ³ , and Won-Ju Cho ¹ 소속: ¹ Department of Electronic Materials Engineering, Kwangwoon University, ² Material Testing Center, Korea Testing Laboratory, ³ Solar Cell Laboratory, LG Innotek Co., Ltd.
TP1-66	Ga-Doped ZnO Nanorods using an Aqueous Solution Method for a Piezoelectric Nanogenerator 저자: Su-HyunYoon and Sang-Woo Kim 소속: School of Advanced Materials Science and Engineering, Sungkyunkwan University
TP1-67	High-Performance of P-Type Polymer Hybridized ZnO Thin Film Piezoelectric Nanogenerator 저자: Sung-Soo Kwak ¹ , Keun Young Lee ¹ , and Sang-Woo Kim ^{1,2} 소속: ¹ School of Advanced Materials Science and Engineering, Sungkyunkwan University, ² School of Advanced Materials Science and Engineering, Sungkyunkwan University Advanced Institute of Nanotechnology
TP1-68	Two-Dimensional Vanadium-Doped ZnO Nanosheet-Based Flexible Direct Current Nanogenerator 저자: Tae Yun Kim, Manoj K Gupta, and Sang-Woo Kim 소속: Advanced Institute of Nanotechnology, Sungkyunkwan University
TP1-69	Stretchable Piezoelectric-Pyroelectric Hybrid Energy Harvester Based on P(VDF- TrFE) 저자: HongJoon Yoon ¹ and SangWoo Kim ¹ , ² 소속: ¹ School of Advanced Materials Science and Engineering, Sungkyunkwan University, ² School of Advanced Materials Science and Engineering, Sungkyunkwan University Advanced Institute of Nanotechnology
TP1-70	Microstructure and Electrical Property of Si/Carbon Fiber Hybrid Structure 저자: Eulyong Chae, Heedo Na, and Hyunchul Sohn 소속: Department of Materials Science and Engineering, Yonsei University

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WP1-1	C/H Pattern 의 Photon Shot Noise Effect 정량화를 위한 Stochastic Simulation 저자: 김정식 ¹ , 이재욱 ² , 홍성철 ² , 이승민 ² , 정시준 ³ , 안진호 ^{1,2,3} 소속: ¹ 한양대학교 나노반도체공학과, ² 한양대학교 신소재공학과, ³ 한양대학교 나노융 합과학과
WP1-2	The Suggestion of Half-Tone Phase-Shift Mask for High-NA EUVL 저자: Seongchul Hong ¹ , Seejun Jeong ² , Jae Uk Lee ¹ , Seung Min Lee ¹ , Jung Sik Kim ³ , and Jinho Ahn ^{1,2,3} 소속: ¹ Department of Materials Science and Engineering, Hanyang University, ² Department of Convergence NanoScience, Hanyang University, ³ Department of Nanoscale Semiconductor Engineering, Hanyang University
WP1-3	Study of Etching Properties of Nickel Absorber for EUV Mask 저자: Seejun Jeong ¹ , Seongchul Hong ² , Jae Uk Lee ² , Seung Min Lee ² , Jung Sik Kim ³ , and Jinho Ahn ^{1,2,3} 소속: ¹ Department of Convergence NanoScience, Hanyang University, ² Department of Materials Science and Engineering, Hanyang University, ³ Department of Nanoscale Semiconductor Engineering, Hanyang University
WP1-4	Electron Beam Lithography on Flexible Polymer Substrates using Metal Discharging Layer 저자: Joonhyung Cho ¹ , Hyungyu Lee ¹ , Eunsuk Choi ¹ , Soonhyung Hwang ¹ , Hyunsuk Chun ¹ , and Seung-Beck Lee ^{1,2} 소속: ¹ Department of Electronic Engineering, Hanyang University, ² Institute of Nano Science and Technology, Hanyang University
WP1-5	Comparison of High Density Plasma Etching of MgO Thin Films using Cl ₂ , CH ₃ OH and CH₄ Plasmas 저자: II Hoon Lee, Su Min Hwang, Adrian Adalberto Garay, Ji Hyun Cho,i and Chee Won Chung 소속: Department of Chemical Engineering, Inha University
WP1-6	Dry Etching of Magnetic Tunnel Junctions Stacks using a H₂O/CH₃OH based Inductively Coupled Plasma 저자: II Hoon Lee, Adrian Adalberto Garay, Su Min Hwang, Ji Hyun Choi, and Chee Won Chung 소속: Department of Chemical Engineering, Inha University
WP1-8	Mask Heating량 제어를 통한 Overlay Margin 확보 저자: 김장선, 최진필, 강영석, 하헌환 소속: Samsung Electronics Co., Ltd.
WP1-9	Plasma Enhanced Atomic Layer Deposition of Low Temperature Silicon Nitride using Ultra Conformal Silicon Precursors with New Chemical Structure Design 저자: 장세진, 이상도, 김종현, 김도연, 조성우, 석장현, 이상익, 김명운 소속: ㈜디엔에프

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WP1-10	Analytical Investigation on Electrical Properties of Atomic Layer Deposited Amorphous Zinc Tin Oxide Thin Film 저자: Jun Shik Kim, Un Ki Kim, Eun Suk Hwang, Seung-Jun Lee, and Cheol Seong Hwang 소속: Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University	
WP1-11	Large-Area Fabrication of Vertically Oriented ZnO Hexagonal Nanotube-Rod Hybrids Applying a Two-Step Growth Method 저자: Sungwoong Kim, Sun Sang Kwon, Won Woo Lee, and Won II Park 소속: Division of Materials Science and Engineering, Hanyang University	
WP1-12	Structural and Perpendicular Magnetic Anisotropy Features of Novel [CoO/Pd] _n /[Co/Pd] _m Multilayer Matrix for the STT-MRAM Applications 저자: JaBin Lee, GwangGuk An, SeungMo Yang, JaeHong Kim, and JinPyo Hong 소속: Department of Physics, Hanyang University	
WP1-13	Quality Improvement of Epitaxial Graphene Grown on 4H-SiC Surface by Molybdenum Plate Capping during UHV Annealing 저자: Han Byul Jin ¹ , Youngeun Jeon ¹ , Sungchul Jung ² , Hun Han Yoon ¹ , Hyun Suk Kang ³ , Byung Cheol Lee ³ , Jae-Hyeon Ko ⁴ , Hyung-Joon Shin ⁵ , Jung-Woo Yoo ⁵ , Sung Youb Kim ⁵ , Soon-Yong Kwon ⁵ , Daejin Eom ⁶ , and Kibog Park ^{1,2} 소속: ¹ School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology, ² Department of Physics, Ulsan National Institute of Science and Technology, ³ Korea Atomic Energy Research Institute, ⁴ Department of Physics, Hallym University, ⁵ School of Mechanical and Advanced Materials Engineering, Ulsan National Institute of Science and Technology, ⁶ Korea Research Institute of Standards and Science	
WP1-14	Role of Oxygen-Doped Ta Spacer on the Enhanced Perpendicular Magnetic Anisotropy Features of CoFeB/MgO Interface for the STT-MRAM Applications. 저자: SeungMo Yang, JaBin Lee, GwangGuk An, JaeHong Kim, and JinPyo Hong 소속: Department of Physics, Hanyang University	
WP1-15	Investigation of Leakage Current Mechanisms for Different Cap Layer on AlGaN/GaN Schottky Diodes 저자: Minjun Kim ¹ , Yoonhyung Kim ¹ , and Jinsub Park ^{1,2} 소속: ¹ Department of Electronics and computer Engineering, Hanyang University, ² Department of Electronic Engineering, Hanyang University	
WP1-16	GaN 열분해 특성을 이용한 자립형 GaN 기판 제작에 관한 연구 저자: 김시내 ¹ , 이현재 ² , 김시영 ² , 구지은 ¹ , 장지호 ¹ 소속: ¹ 한국해양대학교 응용과학과, ² ㈜판크리스탈	

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WP1-17	Enhancement of Light Extraction by Nanostructure Arrays on GaN-Based Vertical Light-Emitting Diode 저자: Taejoon Son, Seunghwan Yeon, and Jinsub Park 소속: Department of Electronics & Computer Engineering, Hanyang University
WP1-18	Polar and Non-Polar Single InGaN/GaN MQW Nanowire LED 저자: Yong-Ho Ra, San Kang, Hee-II Yoo, Seung-Kyu Lee, II-Seok Song, and Cheul-Ro Lee 소속: School of Advanced Materials Engineering, Chonbuk National University
WP1-19	The Growth of GaSb on Silicon (100) with AlGaSb/GaSb SPS Buffer Layers 저자: Kyu-Hyoek Yoen ^{1,2} , Eun-Hye Lee ² , Min-Han Bae ² , Jun-Young Kim ² , Hye-Joung Jang ³ , and Jin-Dong Song ^{1,2} 소속: ¹ Nano-electronic Engineering, University of Science & Technology, ² Center for Opto-Electronic Convergence Systems, Korea Institute of Science and Technology, ³ Advanced Analysis Center, Korea Institute of Science and Technology
WP1-20	Single Nanowire Diode Fabricated by <i>p-n</i> Junction GaN Nanowire 저자: Ji Hyeon Park, Jae Kwan Sim, Yong Hyun Choi, Eun A Cho, Dae Yong Um, and Cheul-Ro Lee 소속: School of Advanced Materials Engineering, Chonbuk National University
WP1-21	Defects States and Dark Currents in InAs/GaAs Quantum Dot Solar Cell Grown by Molecular Beam Epitaxy 저자: Kyoung Su Lee ¹ , Dong Uk Lee ¹ , Eun Kyu Kim ¹ , and Won Jun Choi ² 소속: ¹ Quantum-Function Research Laboratory and Department of Physics, Hanyang University, ² Opto-Electronic Convergence System, Korea Institute of Science and Technology
WP1-22	Optical Characteristics of Indium Tin Oxide Thin Films Co-Evaporated with Magnesium Fluoride 저자: Gyujin Oh and Eun Kyu Kim 소속: Department of Physics, Hanyang University
WP1-23	Design and Analysis of Sub-10nm Junctionless Fin-Type Field-Effect Transistors 저자: Sung Yoon Kim ¹ , Jae Hwa Seo ¹ , Gwan Min Yoo ¹ , Young Jae Kim ¹ , Hye Rim Eun ¹ , Hye Su Kang ¹ , Young-Woo Jo ¹ , Seongjae Cho ² , Jung-Hee Lee ¹ , and In Man Kang ¹ 소속: ¹ School of Electronics Engineering, Kyungpook National University, ² Department of Electronics Engineering, Gachon University
WP1-24	GOI Improvement of Novel Buried N-Type Capacitor 저자: Kyungmin Kim ^{1,2} , Ilseok Han ¹ , Jeongho Cho ¹ , Junggoo Park ¹ , Sewoon Kim ¹ , Jiyoung Huh ¹ , Sungyoun Kim ¹ , InWha Choi ¹ , Sibum Kim ¹ , and Hi-Deok Lee ² 소속: ¹ SMS Product Engineering, Magnachip Semiconductor, ² Department of Electronics Engineering, Chungnam National University

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WP1-25	Analysis of 90nm RF CMOS Characteristics by Gate Layout Optimization 저자: Jong Keun Kim, Bong Woo Han, Hee Kyeong Yang, Myoung Jun Jang, In Wook Cho, and Kyung Dong Yoo 소속: Technology Development in Image Development Group, SK hynix Inc.
WP1-26	Transfer-Printing the Micro-Structure Devices on Flexible Substrates 저자: Kyu-Bong Choi and Jong-Ho Lee 소속: Department of ECE and ISRC, Seoul National University
WP1-27	On-State Resistance Instability of Antifuses during Read Operation 저자: Jae Hwan Han ¹ , Hyunjin Lee ² , Wansoo Kim ² , Gyuhan Yoon ¹ , and Woo Young Choi ¹ 소속: ¹ Department of Electronic Engineering, Sogang University, ² SK hynix Inc.
WP1-28	In-Situ Hafnium Capping Process for 0.6 nm EOT on Ge Wafer 저자: 정원일 ¹ , 신윤상 ¹ , 이충호 ² , 손동균 ² , 조병진 ¹ 소속: ¹ KAIST 전기전자공학과, ² 삼성전자 S.LSI사업부
WP1-29	Voltage Scaling of 3-D Stacked NAND Flash String with Vertical Single-Crystal Si Channel Epitaxially Grown on (100) Si-Substrate 저자: Wan-Gyu Lee ¹ , Ho Seong Jeon ¹ , Seung-Dong Yang ² , Ga-Won Lee ² , and Jeoung Woo Kim ¹ 소속: ¹ Nano- materials and devices, National NanoFab Center, ² Department of Electronics Engineering, Chungnam National University
WP1-30	Characterization of Dielectric Relaxation and Reliability of High-k MIM Capacitor 저자: Ho-Young Kwak ¹ , Seung-Yong Sung ¹ , Hyuk-Min Kwon ¹ , Sung-Kyu Kwon ¹ , Jong- Kwan Shin ¹ , Seong-Yong Jang ¹ , Sun-Man Hwang ¹ , Su Lim ² , and Hi-Deok Lee ¹ 소속: ¹ Department of Electronics Engineering, Chungnam National University, ² Dongbu HiTek
WP1-31	An Experimental Verification of a Scaled RC-Dominant Interconnect Line Model for High-Speed Wireline 저자: Jiwon Kim, Taehee Kim, Byungsub Kim, and Jeong-soo Lee 소속: Department of Electrical Engineering, Pohang University of Technology and Science
WP1-32	High Performance of Graphene Ion-Sensitive Field-Effect Transistors using a Solution-Processed Al₂O₃ Sensing Membrane 저자: Tae-Eon Bae ¹ , Jongwan Jung ² , and Won-Ju Cho ¹ 소속: ¹ Deparment of Electronic Materials Engineering, Kwangwoon University, ² Institute of Nano and Advanced Materials Engineering, Sejong University

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WP1-33	The Stability of Plug and Play Quantum Cryptography System with Double Phase Modulation Method 저자: Osung Kwon, Min Ki Woo, Min-Soo Lee, Byung Kwon Park, II Young Kim, Yong- Su Kim, Sang-Wook Han, and Sung Moon 소속: Center of Nano & Quantum Information Research, Korea Institute of Science and Technology
WP1-34	Low Voltage Operation of an Electrostatically Driven Peristaltic Pump 저자: Pyohwan Hong ¹ , Deaseung Pyo ¹ , Jonghyun Lee ¹ , Chanseob Cho ¹ , and Bonghwan Kim ² 소속: ¹ School of Eletronics Engineering, Kyungpook National University, ² Department of Electronics Engineering, Catholic University of Daegu
WP1-35	Effect of Microwave Annealing for Stability Improvement of Amorphous InGaZnO Thin-Film-Transistor Based SnO₂ Extended-Gate Field-Effect-Transistor 저자: In-Kyu Lee and Won-Ju Cho 소속: Deparment of Electronic Materials Engineering, Kwangwoon University
WP1-36	The Comparison of Noise Characteristics between Si and Pyrex Substrate in Solid-State Nanopore 저자: Kyeong Beom Park, Ashvani Kumar, Hyun-Mi Kim, and Ki-Bum Kim 소속: Department of Materials Science and Engineering, Seoul National University
WP1-37	Impedance Characteristics of GSG Electrodes for RLGC Modeling of Cell- Electrode Interface 저자: Jongmin Shin and Jong-Ho Lee 소속: Department of ECE and ISRC, Seoul National University
WP1-38	High Sensitive Ge Resistance Temperature Device by Adding Transition Metals 저자: Jiyoun Choi, Jeongyong Choi, Sungyoul Choi, Yooleemi Shin, and Sunglae Cho 소속: Department of Physics, University of Ulsan
WP1-39	An Accurate and Efficient Simulation Technique for FET-Type Biosensors 저자: Bongsik Choi, Jieun Lee, Dong Myong Kim, Dae Hwan Kim, and Sung-Jin Choi 소속: School of Electrical Engineering, Kookmin University
WP1-40	Characteristics of Robust Infra-Red Photodiode for Harsh Environments 저자: Dong-Hwan Jun ¹ , Won-Kyu Park ¹ , and Jong-In Song ² 소속: ¹ Korea Advanced Nano-Fab Center, ² School of Information and Communications, Gwangju Institute of Science and Technology
WP1-41	The Shear Force Transfer Characteristics Dependent on the Height of Bio- Mimetic Fingerprint Structure for Tactile Sensor 저자: Hyunsuk Chun ¹ , Eunsuk Choi ¹ , Soonhyung Hwang ¹ , Joonhyung Cho ¹ , Hyungyu Lee ¹ , and Seung-Beck Lee ^{1,2} 소속: ¹ Department of Electronic Engineering, Hanyang University, ² Institute of Nano Science and Technology, Hanyang University

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WP1-42	ITO와 금속 격자를 이용한 박막 태양 전지 효율 증대 저자: 허형준, 김상인 소속: 아주대학교 전자공학부
WP1-43	Influences of Cylindrical Micro-Patterned Ge Substrates on the Characteristics of the Ge Single-Junction Solar Cells 저자: Kangho Kim, Youngjo Kim, Nguyen Dinh Lam, and Jaejin Lee 소속: Department of Electrical and Computer Engineering, Ajou University
WP1-44	Particle Swarm Optimization of Grating Enhanced CIGS Solar Cell 저자: Tran Quyet Thang, Le Duy Khanh, and Sangin Kim 소속: Department of Electrical and Computer Engineering, Ajou University
WP1-45	Abnormal Electrical Transport Properties of Ferrocene-Alkanethiolate Molecular Electronic Devices on Rigid and Flexible Substrates 저자: Hyunhak Jeong, Dongku Kim, Hanki Lee, Wang-Taek Hwang, and Takhee Lee 소속: Department of Physics and Astronomy, Seoul National University
WP1-46	Multi-Level Non-Volatile Polymer Memory with Solution-Blended High <i>k</i> Ferroelectric Polymer Insulators for Low Voltage Operation 저자: Sun Kak Hwang, Insung Bae, Kang Lib Kang, Richard Hahnkee Kim, and Cheolmin Park 소속: Department of Materials Science and Engineering, Yonsei University
WP1-47	Optical and Electrochemical Properties of Metallic Nanostructured Materials 저자: Mi Jung, Chulki Kim, Taikjin Lee, Jae Hun Kim, Seok Lee, and Deokha Woo 소속: Sensor System Research Center, Korea Institute of Science and Technology
WP1-48	Hybrid Complementary Invertor Based on Organic / 2D Layered MoS2 Thin Film Transistors 저자: Chulseung Jung, Yeonsung Lee, Junyeon Kwon, Yongbok Lee, and Sunkook Kim 소속: Department of Electronics and Radio Engineering, Kyung Hee University
WP1-49	Bistable Switching of Self-Assembled Photonic Crystal Devices 저자: Taejoon Park, Sunkak Hwang, Insung Bae, and Cheolmin Park 소속: Department of Materials Science and Engineering, Yonsei University
WP1-50	Gas Sensing Properties of Pt Nanoparticles Decorated ZnO-Branched Nanowires 저자: Hyoun Woo Kim, Yong Jung Kwon, and Hong Yeon Cho 소속: Division of Materials Science and Engineering, Hanyang University
WP1-51	Graphene Nano-Array Fabrication by Mussel-Inspired Directed Block Copolymer Self-Assembly 저자: Seokhan Park and Sang Ouk Kim 소속: Department of Materials Science and Engineering, KAIST

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WP1-52	Layer-by-Layer Growth of Bi ₂ Te ₃ -Sb ₂ Te ₃ on h-BN via Van Der Waals Heteroepitaxy 저자: Hoseok Heo ^{1,2} , Kibum Kang ¹ , Inchan Hwang ^{1,3} , and Moon-Ho Jo ^{1,3} 소속: ¹ Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science, Pohang University of Science and Technology, ² Division of Advanced Materials Science, Pohang University of Science and Technology, ³ Department of Materials Science and Engineering, Pohang University of Science and Technology
WP1-53	Electrical and Optical Properties of 2D Layered MoS₂ Thin Film Transistor 저자: Junyeon Kwon ¹ , Yeonsung Lee ¹ , Minjung Kim ¹ , Hyunsung Moon ¹ , Woong Choi ² , and Sunkook Kim ¹ 소속: ¹ Department of Electronics and Radio Engineering, Kyung Hee University, ² School of Advanced Materials Engineering, Kookmin University
WP1-54	Ultra-Thin Silicon Nanomembrane for Transparent and Flexible Transistor 저자: Houk Jang ^{1,2} , Wonho Lee ² , and Jong-hyun Ahn ² 소속: ¹ Sungkyunkwan University Advanced Institute of Nano Technology, Sungkyunkwan University, ² School of Electrical and Electronic Engineering, Yonsei University
WP1-55	High Sensitive and Flexible Tactile Sensors with a Driving Circuit for Robotics Application 저자: Min Hoon Park ¹ , Houk Jang ¹ , Han Wook Song ³ , Min Seok Kim ³ , and Jong-Hyun Ahn ² 소속: ¹ School of Advanced Materials Science and Engineering, Sungkyunkwan University, ² School of Electrical & Electronic Engineering, Yonsei University, ³ Korea Research Institute of Standards and Science
WP1-56	Superhydrophobic Structures Fabricated by Texturing and PTFE Coating 저자: Deaseung Pyo ¹ , Pyohwan Hong ¹ , Jonghyun Lee ¹ , Bonghwan Kim ² , and Chanseob Cho ¹ 소속: ¹ School of Electronics Engineering, Kyungpook National University, ² Department of Electronics Engineering, Catholic University of Daegu
WP1-57	Flexible Non-Volatile Ferroelectric Memory on Metal Wire Substrate 저자: Richard Hahnkee Kim, Sunkak Hwang, and Cheolmin Park 소속: Department of Materials Science and Engineering, Yonsei University
WP1-58	Enhancing the Electrical Contacts of MoS ₂ Field Effect Transistor via Microwave Assisted Ag Nanoparticle 저자: Sang Jin Lee, Jong Mok Shin, Jae Sung Kim, and Gyu Tae Kim 소속: School of Electrical Engineering, Korea University
WP1-59	Transfer of Graphene using Au and PMMA and Its Performance 저자: Jinwoo Choi, Jaehyun Park, Hyeji Kim, Won-jun Lee, and Jongwan Jung 소속: Department of Nanotechnology and Advanced Materials Engineering, Sejong University

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WP1-60	Controlled Growth of Ge/Si_{1-x}Ge_x Core/Shell Nanowires 저자: Byongju Kim, Sun-Wook Kim, Hyunchul Jang, Jeong-Hoon Kim, and Dae-Hong Ko 소속: Department of Materials Science and Engineering, Yonsei University
WP1-61	Interfacial Charge Density Measurement for Graphene Transistor using Discharge Current Analysis (DCA) Method 저자: 이재은 ¹ , 정욱진 ² , 이병훈 ² 소속: ¹ Gwangju Institute of Science and Technology College, ² School of Materials Science and Engineering, Gwangju Institute of Science and Technology
WP1-62	High-Index Contrast Grating and Its Applications 저자: Jun Young Kim ^{1,2} , Kyu Hyoek Yoen ¹ , Jihoon Kyhm ¹ , Woon Cho Cho ¹ , Hang Kyu Kang ¹ , Soo Seok Kang ¹ , Young Dong Kim ^{1,2} , and Jin Dong Song ¹ 소속: ¹ Center for Opto-electronic Convergence, Korea Institute of Science and Technology, ² Nano-optical Properties Laboratory and department of Physics, Kyung Hee University
WP1-63	Polishing Characteristics of Supercritical Ceria Abrasive for STI CMP 저자: Jihoon Seo ¹ , Jinok Moon ¹ , Kijung Kim ² , and Ungyu Paik ^{1,2} 소속: ¹ WCU Department of Energy Engineering, Hanyang University, ² Department of Nanoscale Semiconductor Engineering, Hanyang University
WP1-64	Printed Indium-Tin-Oxide Films for Various Sensor Applications 저자: Jieun Koo ¹ , Youngji Cho ¹ , Sangtae Lee ² , Jung-Yeul Jung ³ , and Jiho Chang ¹ 소속: ¹ Department of Applied Science, Korea Maritime and Ocean University, ² Department of Mechatronics Engineering, Korea Maritime and Ocean University, ³ Ocean Science and Technology School, Korea Maritime and Ocean University
WP1-66	Effect of Surface Morphology on Nano Embossing Ceria for CMP Performance 저자: Young-Hye Son, Hyun-Min Seung, and Jea-Gun Park 소속: Department of Electronics Computer Engineering, Hanyang University
WP1-67	Nucleation-Controlled Growth of Monolayer MoS₂ by Vapor Phase Transport 저자: SooHo Choi and Woochul Yang 소속: Department of Physics, Dongguk University
WP1-68	High Performance Transparent Flexible and Robust Graphene & h-BN Stacked Micro-Heater 저자: Tae-ho Kim, Kang Hyuck Lee, and Sang-Woo Kim 소속: School of Advanced Materials Science and Engineering, Sungkyunkwan University

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WP1-69	Correlation between Structural and Electronic Properties of Grapheme Depending on Substrate Roughness 저자: Min Baik, DeukGong Yoon, PooReum Choi, SooHo Choi, Shaolin Zhang, and Woochul Yang 소속: Department of Physics, Dongguk University
WP1-70	기계식 박리법으로 분리된 Multilayer MoS₂의 물리적 및 광학적 특성 저자: 추동일, 이동욱, 김은규 소속: 한양대학교 물리학과
WP1-71	Improvement in Photoluminescence of Thin-Film Phosphor using Double-Side Patterning 저자: Chul-Kyun Park ¹ , Ki-Kang Kim ¹ , Ki-Young Ko ² , and Jinho Ahn ¹ 소속: ¹ Department of Materials Science and Engineering, Hanyang University, ² Korea Institute of Patent Information

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WP2-1	Influence of Gate Dielectrics on Electrical Characteristics of Solution-Processed ZnO Transistors 저자: Xue Zhang ¹ , Jaehoon Park ¹ , Hyunji Shin ² , Dong Wook Kim ² , Jong Sun Choi ² , Jae Eun Hwang ³ , and Hong Doo Kim ³ 소속: ¹ Department of Electronic Engineering, Hallym University, ² Department of Electrical, Information and Control Engineering, Hongik University, ³ Department of Display Materials Engineering, Kyung Hee University
WP2-2	Purge-Time-Induced Changes in Preferred Orientation of Zinc Oxide Thin Films Grown by Atomic Layer Deposition 저자: Hui Kyung Park and Jaeyeong Heo 소속: Department of Materials Science and Engineering, Chonnam National University
WP2-3	Flexible Micro-Scale Organic Field Effect Transistors Fabricated Achieved via Orthogonal Photolithography 저자: Jingon Jang ¹ , Younggul Song ¹ , Hyuntaek Oh ² , Daekyoung Yoo ¹ , Jin-Kyun Lee ² , and Takhee Lee ¹ 소속: ¹ Department of Physics and Astronomy, Seoul National University, ² Department of Polymer Science and Engineering, Inha University
WP2-4	Gate Dielectric Effects on Electrical Characteristics of 6,13- Bis(Triisopropylsilylethynyl)-Pentacene Transistors 저자: Hyunji Shin ¹ , Dongwook Kim ¹ , Jaehoon Park ² , and Jong sun Choi ¹ 소속: ¹ Department of Electrical, Information and Control Engineering, Hongik University, ² Department of Electronic Engineering, Hallym University
WP2-5	Deposition of Thicker Ferroelectric (Hf,Zr)O₂ Thin Films using Al₂O₃ Inter-Layer 저자: Han Joon Kim, Min Hyuk Park, Yu Jin Kim, Taehwan Moon, and Cheol Seong Hwang 소속: Department of Material Science & Engineering and Inter-university Semiconductor Research Center, Seoul National University
WP2-6	Improving Conformality of SrRuO ₃ Film Grown by Combined ALD SrO and CVD RuO ₂ or Ru Layers 저자: Cheol Hyun An, Woojin Jeon, Woongkyu Lee, Yeon Woo Yoo, and Cheol Seong Hwang 소속: Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University
WP2-7	Microwave-Annealing Effects of Solution-Processed HfO_x Thin Film as a Resistive Switching for ReRAM 저자: Ki-Hyun Jang, Se-Man Oh, Se-Ho Kim, and Won-Ju Cho 소속: Department of Electronic Materials Engineering, Kwangwoon University

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WP2-8	Surface Reaction Chemistry during Atomic Layer Deposition of Sc₂O₃ and Gd₂O₃ from Cp-Based Metal Precursors 저자: Jeong Hwan Han ^{1,2} 소속: ¹ Advanced Materials Division, Korea Research Institute of Chemical Technology, ² Imec
WP2-9	Characterization of Charge Trapping and Current Conduction Mechanism in Hf- Aluminate for 3D-Stacked NAND Flash Memory 저자: Jinho Oh, Heedo Na, and Hyunchul Sohn 소속: Department of Materials Science and Engineering, Yonsei University
WP2-10	A Novel Low-Temperature Treatment on Solution-Derived Amorphous InGaZnO Thin-Film Transistor for Flexible Display 저자: Yeong-Hyeon Hwang, Sung-Wan Moon, Ja-Kyung Gu, and Won-Ju Cho 소속: Department of Electronic Materials Engineering, Kwangwoon University
WP2-11	The Speed Improvement of In₃SbTe₂ Phase Change Material by Doping Bi Element 저자: Minho Choi ¹ , Yong Tae Kim ² , and Jinho Ahn ¹ 소속: ¹ Department of Materials science and engineering, Hanyang University, ² Semiconductor Materials and Device Laboratory, Korea Institute of Science and Technology
WP2-12	High Performance Solution-Processed MoS₂ Field Effect Transistor by Two-Step Annealing 저자: Juyeon Won, Chul-Kyu Lee, Byeong-Geun Son, Hyo Jin Kim, Soyeon Je, and Jae-Kyeong Jeong 소속: Department of Materials Science and Engineering, Inha University
WP2-13	Solution Processed CuO_x and Its Transport Characteristics 저자: Si-Hong Kim, Myung-Ji Kim, Ji-Su Ahn, and Deok-kee Kim 소속: Department of Electrical Engineering, Sejong University
WP2-14	Improvement in Bias Stability of Amorphous IGZO Thin Film Transistors by High Pressure H₂O₂ Annealing 저자: Ji Hun Song, Chang-Kyu Lee, Ah Young Hwang, and Jae Kyeong Jeong 소속: Department of Materials Science and Engineering, Inha University
WP2-15	Soluble-Processed Zr-La-O/SiO₂ Gate Dielectrics at 180℃ for Flexible Metal Oxide Transistors 저자: Soyeon Je, Byeong-guen Son, Hyojin Kim, Juyeon Won, and Jaekyeong Jeong 소속: Department of Materials Science and Engineering, Inha University

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WP2-16	Atomic Layer Deposition of Ruthenium Thin Film from Ru Precursor 저자: Hyo Jun Jung ^{1,2} , Eun Ae Jung ¹ , Jeong Hwan Han ¹ , Bo Keun Park ¹ , Sun Sook Lee ¹ , Jin Ha Hwang ² , Chang Gyoun Kim ¹ , Ki Seok An ¹ . and Taek Mo Chung ¹ 소속: ¹ Advanced Materials Division, Korea Research Institute of Chemical Technology, ² Department of Materials Science and Engineering, Hongik University
WP2-17	Anomalous Behavior of Oxygen Gas Ratio-Dependent Field Effect Mobility in In- Zn-Sn-O Thin Film Transistor 저자: Ah Young Hwang, Chang-Kyu Lee, Ji Hun Song, and Jae Kyeong Jeong 소속: Department of Materials Science and Engineering, Inha University
WP2-18	Effect of HfO ₂ Charge Trap Layer and Al ₂ O ₃ Blocking Layer Thickness on MAHAS Structure Memory Characteristics 저자: Heedo Na, Jinho Oh, Kyumin Lee, and Hyunchul Sohn 소속: Department of Material Science and Engineering, Yonsei University
WP2-19	The Effects of Post Annealing on the Schottky Behaviors of Atomic Layer Deposited Ruthenium on the Si Substrate 저자: Donghwan Lim ¹ , Moon-Suk Choi ¹ , Dohyung Kim ¹ , Youngil Gil ¹ , Woosuk Jung ¹ , Seong Chan Heo ² , and Changhwan Choi ¹ 소속: ¹ Division of Materials Science and Engineering, Hanyang University, ² SK hynix Inc.
WP2-20	Top-Gate Oxide Thin-Film Transistors using Solution-Processed Gate Stack of PVP/AI-Zn-Sn-O with an Al₂O₃ Capping Layer for Full-Patterning Process 저자: Kyeong-Ah Kim, Jun-Yong Bak, and Sung-Min Yoon 소속: Department of Advanced Materials Engineering for Information & Electronics, Kyung Hee University
WP2-21	Improvements in Bias-Stress Stability Characteristics of Solution-Processed Al- In-Zn-O Thin-Film Transistors with Optimizing the Channel Composition 저자: Minji Park, Jun-Yong Bak, Jeong-Seon Choi, and Sung-Min Yoon 소속: Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University
WP2-22	Thickness and Composition Effects of Al-Doped ZnO Channels Prepared by Atomic Layer Deposition on the Device Behaviors of Oxide Thin-Film Transistors 저자: Eomji Kim, Jun-Yong Bak, Jeong-Seon Choi, and Sung-Min Yoon 소속: Department of Advanced Materials Engineering for information and Electronics, Kyung Hee University
WP2-23	Effect of Bottom Gate Insulator Thickness on the Threshold-Voltage Tunability and Stress Stabilities of the Fully-Transparent Double-Gate In-Ga-Zn-O TFTs 저자: Da-Bin Jeon and Sung-Min Yoon 소속: Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University

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WP2-24	Effects of Ferrite Core Loss and Permeability at 400 kHz Ferrite Inductively Coupled Plasma 저자: Sung-Won Cho ¹ , June Young Kim ² , and Chin-Wook Chung ¹ 소속: ¹ Department of Electrical Engineering, Hanyang University, ² Department of Nanoscale Semiconductor Engineering, Hanyang University
WP2-25	In-Situ Measurement Method of Dielectric-Film Thickness for Processing Chamber Wall Monitoring 저자: Jin-Yong Kim and Chin-Wook Chung 소속: Department of Electrical Engineering, Hanyang University
WP2-26	Comparison of Properties of Poly SiGe Deposited by Disilane and Trisilane 저자: Hyunchul Jang, Sangmo Koo, Byongju Kim, Sun-Wook Kim, and Dae-Hong Ko 소속: Department of Materials Science and Engineering, Yonsei University
WP2-27	Bipolar Resistive Switching in Amorphous SrTiO₃ Films Grown by Atomic Layer Deposition 저자: Woongkyu Lee, Kyung Jean Yoon, Woojin Jeon, Yeon Woo Yoo, Cheol Hyun An, and Cheol Seong Hwang 소속: Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University
WP2-28	Distribution of Plasma Parameters at Wafer Level Measured by 2D Plasma Parameter Diagnostic Method in Inductively Coupled Plasmas 저자: Young-Cheol Kim ¹ , and Chin-Wook Chung ¹ 소속: ¹ Department of Nanoscale Semiconductor Engineering, Hanyang University
WP2-29	Characteristics of Grain Boundary and Interface Traps in Polysilicon Channel Thin Film Transistors 저자: Yoonseok Jeon, Musarrat Hasan, Cuong Nguyen Manh, Seung-Won You, Duc-Tai Tong, Dong-Hwi Lee, Jae-Kyung Jeong, and Rino Choi 소속: Inha University
WP2-30	Stress Induced Leakage Current Characteristic of La-Incorporated HfO₂ Gate Dielectric 저자: Seung-won You, Musarrat Hasan, Manh Cuong Nguyen, Yoon Seok Jeon, Duc- Tai Tong, Dong-Hwi Lee, Jae Kyoung Jung, and Rino Choi 소속: Department of Materials Science and Engineering, Inha University
WP2-31	A Study on the Enlargement of the Plasma Reactor using a Global Model 저자: Dong-Hwan Kim ¹ , Young-Kwang Lee ² , and Chin-Wook Chung ² 소속: ¹ Department of Nanoscale Semiconductor Engineering, Hanyang University, ² Department of Electrical Engineering, Hanyang University

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WP2-32	Conduction Mechanism of Metal-Oxide-Semiconductor Field Effect Transistor with La – Incorporated Hf Based Dielectric 저자: Dong-Hwi Lee, Musarrat Hasan, Manh-Cuong Nguyen, Yoon-Seok Jeon, Seung- Won You, Duc-Tai Tong, Jae-Kyoung Jeong, and Rino Choi 소속: School of Materials Science and Engineering, Inha University
WP2-33	Optimization of GZO/Ag/GZO Multilayer Electrodes Obtained by Pulsed Laser Deposition at Room Temperature 저자: Eunyoung Cheon, Sang Woo Song, Hwan Sun Kim, Dae Hui Cho, Ji Hun Jang, and Byung Moo Moon 소속: Department of Electrical Engineering, Korea University
WP2-34	Characteristics of Solution Based Oxide TFT with Solution Heating 저자: Sang-A Oh ¹ , Kyeong Min Yu ¹ , So-Hyun Jeong ¹ , Eui-Jung Yun ² , and Byung-Seong Bae ¹ 소속: ¹ Department of Display Engineering, Hoseo University, ² College of IT Engineering and System Control Engineering, Hoseo University
WP2-35	A Study of Advanced Al RDL Development 저자: Koeun Cheon, Yonji Park, Yongkuk Kim, Sungwon Yoon, Sangjae Kim, Minki Son, Junhyun Cho, Pilsoon Bae, Jaesung Oh, Jaemyun Kim, and Kwangyoo Byun 소속: SK hynix Inc.
WP2-36	Effect of ALD Grown Aluminum Oxide Film on the IGZO TFT 저자: Heeok Kim ¹ , Jong-Heon Yang, Sung Haeng Cho, Minki Ryu, Jae-Eun Pi, Jong- woo Kim, Oh Sang Kwon, Eun Suk Park, Chi-Sun Hwang, and Sang-Hee Ko Park 소속: Oxide TFT Research Section, Electronics and Telecommunications Research Institute
WP2-37	Suppression of Current Collapse Effect by Insertion of Mo on Ni/Au Based Schottky Contacts in AlGaN/GaN HEMT 저자: Su-Keun Eom, Neung-Hee Lee, and Kwang-Seok Seo 소속: Department of Electrical and Computer Engineering, Seoul National University
WP2-38	Improvement of Device Characteristic on Solution-Processed InGaZnO Pseudo Metal-Oxide-Semiconductor Field-Effect-Transistor using Microwave Annealing. 저자: Sung-Wan Moon, Ja-Gyeong Gu, and Won-Ju Cho 소속: Department of Electronic Materials Engineering, Kwangwoon University
WP2-39	Effect of Baking Temperature on Device Characteristics in TFT Based Solution Processed Amorphous ZnSnO 저자: Kwang-Won Cho, Young-Hyun Hwang, and Won-Ju Cho 소속: Department of Electrical Material Engineering, Kwangwoon University

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WP2-40	선택적 리세스 게이트 소자의 공정 및 특성 분석 저자: 김정진 ^{1,2} , 박영락 ¹ , 고상춘 ¹ , 문재경 ¹ , 장우진 ¹ , 장우영 ¹ , 배성범 ¹ , 양전욱 ² 소속: ¹ 한국전자통신연구원, ² 전북대학교 반도체화학공학부
WP2-41	Electrical Characteristics and Instability of Solution-Derived An-Zn-Sn-O Thin- Film Transistors 저자: Yeong-Hyeon Hwang and Won-Ju Cho 소속: Department of Electronic Materials Engineering, Kwangwoon University
WP2-42	Systematic Analysis of Electrical Traps at Surface, AlGaN Barrier, and GaN Buffer of AlGaN/GaN HFET Device 저자: Seung Yup Jang ¹ , Jong-Hoon Shin ¹ , Myeong-Kyu Eo ² , Hyo-Seung Choi ² , Hyuck-In Kwon ² , and TaeHoon Jang ¹ 소속: ¹ IGBT part, System IC R&D Laboratory, LG Electronics, ² School of Electronic and Electrical Engineering, Chung-Ang University
WP2-43	RF Characteristics of GaN on SiC for Different Device Topology 저자: Youngrak Park, Woojin Jang, Sangchoon Ko, Jungjin Kim, Wooyoung Jang, Sungbum Bae, Jongwon Lim, Hogyun Ahn, and Jaekyung Mun 소속: GaN Power Electronics Research Section, Electronics and Telecommunications Research Institute
WP2-44	에피텍셜 방법으로 성장된 In-Situ SiN 의 Surface Trap 감소 효과 연구 저자: 조성무, 황의진, 김재무, 김준호, 장태훈 소속: LG전자, System IC 연구소 IGBT Part
WP2-45	Structural Optimization of Field-Plated Normally-off AlGaN/GaN-on-Si MOSHFETs 저자: Jae-Gil Lee, Bong-Ryeol Park, and Ho-Young Cha 소속: School of Electronic and Electrical Engineering, Hongik University
WP2-46	Effect of Basal-Plane Stacking Faults on X-Ray Diffraction of Nonpolar a-Plane GaN Films 저자: Ji Hoon Kim ¹ , Sung-Min Hwang ² , Kwang Hyeon Baik ³ , and Jung Ho Park ¹ 소속: ¹ School of Electrical Engineering, Korea University, ² Photonics Convergence Research Center, Korea Electronics Technology Institute, ³ Department of Materials Science and Engineering, Hongik University
WP2-47	Ammonium Polysulfide Passivation for Interface between GaN and Atomic-Layer- Deposited HfAIO _x 저자: Donghwan Lim, Woosuk Jung, and Changhwan Choi 소속: Division of Materials Science & Engineering, Hanyang University
WP2-48	A Study on Crystalline ZnTe Channel Characteristics for Thin Film Transistor Device 저자: Yoonki Min, Jonggi Kim, Heedo Na, and Hyunchul Sohn 소속: Department of Materials Science & Engineering, Yonsei University

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WP2-49	Study of N-contact Hole Number of via Hole Vertical LEDs for Electrical and Optical Properties 저자: Chi Gyun Song ¹ , Hyung-Jo Park ² , Tak Jeong ² , Sang Hern Lee ² , and Joon Seop Kwak ¹ 소속: ¹ Department of Printed Electronics Engineering, Sunchon National University,
	² LED Device Team, Korea Photonics Technology Institute
WP2-50	Growth of Semi-Insulating C-Doped/Undoped GaN Multiple-Layer Buffer 저자: Chul-Ho Won, Sang-Min Jeon, Dong-Seok Kim, Soo-Jin Yu, Hee-Sung Kang, Young-Woo Jo, Do-Kywn Kim, Ryun-Hwi Kim, Dong-Hyeok Son, You-Mi Kwon, Vodapally Sindhuri, Jun-Hyeok Lee, Ji-Hyun Kim, Young-Jo Kim, and Jung-Hee Lee 소속: School of Electronics Engineering, Kyungpook National University
WP2-51	Suppression of Current Collapse in AlGaN/GaN MISHFET with a Novel Buffer
	저자: Young-Jo Kim, Hee-Sung Kang, Dong-Seok Kim, Young-Woo Jo, Do-Kywn Kim, You-Mi Kwon, Dong-Hyeok Son, Ji-Hyun Kim, Jun-Hyeok Lee, Young Jun Yoon, Yong Soo Lee, and Jung-Hee Lee 소속: School of Electronics Engineering, Kyungpook National University
WP2-52	Characteristics of AlGaN/GaN HEMTs on SiC with Pt-Based Schottky Contacts 저자: Hyung Sup Yoon, Byoung Gue Min, Ho Kyun Ahn, Jong Min Lee, Dong Min Kang, Sung II Kim, Chul Won Ju, Hae Cheon Kim, and Jong Won Lim 소속: RF Convergence Components Research Section, IT Components & Materials Research Laboratory, Electronics and Telecommunications Research Institute
WP2-53	Bias-Dependent Characteristics of AIGaN/GaN HEMTs on SiC with T-Shaped Gate
	of 0.25 um Gate Length 저자: Jong-Min Lee, Byoung-Gue Min, Hyung Sup Yoon, Ho-Kyun Ahn, Dong Min Kang, Seong II Kim, Sang-Heung Lee, Chul Won Ju, Hae Cheon Kim, and Jong-Won Lim
	소속: RF Convergence Components Research Section, IT Materials and Components Laboratory, Electronics and Telecommunications Research Institute
WP2-54	A Study on the Scalability of a Threshold Type Cell Select Device using Amorphous GeSe, and the Experimental Ways for Reduction of Threshold Voltage 저자: Hyung-Woo Abn, Suyoun Lee, Doo Seok, leong, Sang-Yeol Shin, and Byung-ki
	소속: Electronic Materials Research Center, Korea Institute of Science and Technology

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WP2-55	Dependence of Output Power Density on Gate width of AlGaN/GaN HEMT on SiC Substrate at 9.3GHz 저자: Byoung-Gue Min, Hyung Sup Yoon, Ho-Kyun Ahn, Seong-II Kim, Jong-Min Lee, Haecheon Kim, Dong-Min Kang, Chul-Won Ju, Sang-Heung Lee, and Jong-Won Lim 소속: RF Convergence Components Research Section, IT Components & Materials Research Laboratory, Electronics and Telecommunications Research Institute
WP2-56	RF Performance of 13 nm-thick AlGaN/GaN HEMT with Thin Al ₂ O ₃ Surface Protection Layer 저자: Jun-Hyeok Lee ¹ , Ryun-Hwi Kim ¹ , Do-Kywn Kim ¹ , Chul-Ho Won ¹ , Ji-Hyun Kim ¹ , Young-Jo Kim ^{1.} Bok-Hyung Lee ² , Byeong-Ok Lim ² , Gil-Wong Choi ² , In-Pyo Hong ³ , and Jung-Hee Lee ¹ 소속: ¹ School of Electronics Engineering, Kyungpook National University, ² Samsung Thales Co., Ltd, Korea, ³ Agency for Defense Development
WP2-57	Ultra-Violet Sensitivity of n-ZnO/p-GaN Hetero-Junction Diode 저자: Seong Gook Cho, Woong Tak Moon, and Eun Kyu Kim 소속: Department of Physics and Research Institute for Natural Sciences, Hanyang University,
WP2-58	Photoluminescence Anisotropy in InP Quantum Dot Strings 저자: Yongmin Kim ¹ , Yong Ho Shin ¹ , and Jindong Song ² 소속: ¹ Department of Applied Physics and Institute of Nanoscience and Biotechnology, Dankook University
WP2-59	Optical Study of Non-Polar <i>a</i>-Axis ZnO Single Crystal for Light Emitting Applications 저자: Younghun Hwang and Youngho Um 소속: Department of Physics, University of Ulsan
WP2-60	Unusual Photoluminescence Peak Shift of InSb Epitaxial Layers Grown by LP- MOCVD 저자: Jinwook Jung ¹ , Sehun Park ¹ , Chulkyun Seok ¹ , Yongjo Park ² , Xiren Chen ³ , Jun Shao ³ , and Euijoon Yoon ¹ 소속: ¹ Department of Materials Science and Engineering, Seoul National University, ² Energy Semiconductor Research Center, Advanced Institutes of Convergence Technology, Seoul National University, ³ Shanghai Institute of Technical Physics, Chinese Academy of Sciences
WP2-62	A Pipelined Digital Predistorter using CORDIC Processor 저자: Jong Kang Park, Kyunghoon Kim, Youngoo Yang, and Jong Tae Kim 소속: School of Electronic and Electrical Engineering, Sungkyunkwan University
WP2-63	Spectroscopic Ellipsometer를 이용한 CVD Graphene 의 광학특성 평가 저자: 손우식 ¹ , 문정훈 ² , 현문섭 ¹ , 양준모 ¹ , 조병진 ² 소속: ¹ 나노종합기술원 특성평가사업실, ² 한국과학기술원 전기전자공학과

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WP2-64	Monte Carlo Simulation of Scanning Electron Microscopic Images of Specimens for Structural and Compositional Analysis 저자: Myeong Chun Song and Jin Seung Kim 소속: Department of Nano Science and Technology, Graduate School, Chonbuk National University
WP2-65	Electronic Structure of Graphene: EELS and DFT Calculation 저자: Yun Chang Park and Jun-Mo Yang 소속: National NanoFab Center
WP2-66	유성펜을 이용한 FIB 손상 방지용 보호층 증착 및 특성 저자: 박윤창 ¹ , 박병천 ² , Sergey Romankov ³ , 박경진 ¹ , 유정호 ¹ , 이용복 ¹ , 양준모 ¹ 소속: ¹ 나노종합기술원, ² 한국표준과학연구원, ³ 전북대학교 신소재공학과
WP2-67	집속이온빔(FIB)을 이용한 GaN 계 LED 의 3 차원 전위분석 저자: 박경진, 곽상희, 유정호, 박윤창, 양준모 소속: 나노종합기술원 특성평가실
WP2-68	전계방출 전자빔의 전자광학계 정렬기술 연구 저자: 최성웅 ¹ , 이영복 ¹ , 김대욱 ¹ , 오태식 ¹ , 김영정 ² , 김호섭 ¹ 소속: ¹ 선문대학교 나노과학과, ² 선문대학교 신소재공학과
WP2-69	회절광 현미경을 이용한 극자외선 마스크의 이미징 성능측정 저자: 이재욱 ¹ , 홍성철 ¹ , 이승민 ¹ , 김종석 ² , 정시준 ³ , 김정식 ⁴ , 안진호 ^{1,2,3,4} 소속: ¹ 한양대학교 신소재공학과, ² 한양대학교 정보디스플레이공학과, ³ 한양대학교 나 노융합과학과, ⁴ 한양대학교 나노반도체공학과
WP2-70	GPA를 이용한 Strained Silicone의 응력분포 해석에 대한 시편제작 방법의 영향 저자: 이용복, 박윤창, 유정호, 박경진, 이완규, 양준모 소속: 나노종합기술원 특성평가실
WP2-71	고속 검사를 위한 멀티전자빔 검사장비 연구 저자: 이승범 ¹ , 정원영 ¹ , 조현우 ¹ , 이준호 ¹ , 이영복 ² , 최성웅 ² , 김대욱 ² , 오태식 ² , 김호 섭 ² 소속: ¹ LIG 에이디피, ² 선문대학교 나노과학과
WP2-72	대면적 스캔을 위한 Quadrupole Einzel Lens 구조 연구 저자: 이영복, 김대욱, 오태식, 김호섭 소속: 선문대학교 나노과학과
WP2-73	멀티 전자칼럼 제어방식에 대한 연구 저자: 이순용 ^{1,2} , 임선종 ¹ , 김호섭 ² 소속: ¹ 한국기계연구원 광응용기계연구실, ² 선문대학교 나노과학과

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Place	Room M/ 제1공학관 508호 (# 508, Engineering Building I)
CDC001	A 60/120 GHz Push-push Voltage Controlled Oscillator in 65 nm CMOS Technology 저자· Nambyung Kim, Jongwon Yun, and Jae-Sung Rieb
	소속: School of Electrical Engineering, Korea University
CDC002	2 A 60 GHz Injection-Locked Frequency Divider in 65 nm CMOS Technology 저자: Namhyung Kim, Jongwon Yun, and Jae-Sung Rieh 소속: School of Electrical Engineering, Korea University
CDC003	A 5 GHz Phase Locked Loop in 0.11-μm CMOS Technology 저자: Namhyung Kim, Jongwon Yun, and Jae-Sung Rieh 소속: School of Electrical Engineering, Korea University
CDC004	A Low-Power Low-Noise CMOS Instrumentation Amplifier for Versatile Biopotential Signal Acquisition 저자: 최종환, 이욱준, 신현철 소속: 광운대학교 전파공학과
CDC00	5 A 1 W, 68 % PAE Stacked RF Power Amplifier Using 0.18-µm SOI CMOS 저자: Jung-Lin Woo, Sunghwan Park, and Youngwoo Kwon 소속: Department of EECS and INMC, Seoul National University
CDC006	5 A 14-b Ratio-Independent Algorithmic ADC 저자: Seunghuen Song, Kichang Jang, Chulkyu Park, and Joongho Choi 소속: Department of Electrical and Computer Engineering, University of Seoul
CDC007	Designed Opamp Sharing SDM with FDPA(Feedback Delay Path Addition) Technique 저자: Euihoon Jung, Kisang jung, Jaebung Kim, and Seongik Cho 소속: Div. of Electronic & Information Engineering, Chonbuk National University
CDC008	Design and Implementation of BPSK Modem in 0.35 um CMOS Process

- 저자: Cheolmin Ahn, Youngsik Kim 소속: Department of Information and Technology, Handong Global University
- **CDC009** Vibration Induced Self-startup for Dual-source Energy Harvesting Interface 저자: Young-Sub Yuk, Hui-Dong Gwon, Sung-Won Choi and Gyu-Hyeong Cho 소속: Department of Electrical Engineering, KAIST
- CDC010 A 2.4µW 400nC/s Constant Charge Injection for Wirelessly-Powered Electro-Acupuncture 저자: Hyungwoo Lee, Yongsu Lee, and Hoi-Jun Yoo 소속: Department of Electrical Engineering, KAIST
- **CDC011** An ANN-Searching Processor for Full-HD 30fps Video Object Recognition 저자: Gyeonghoon Kim, Jinwook Oh, Dongjoo Shin, and Hoi-Jun Yoo 소속: Department of EE, KAIST
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Room M/ 제1공학관 508호 (# 508, Engineering Building I) Place **CDC012** 채널간 전류 오차를 보상하는 PLL구조를 이용한 Current regulator의 설계 저자: 임을수, 황인철 소속: 강원대학교 전기전자공학과 **CDC013** H+ Ion-sensitive Transistor based on Gated Lateral Bipolar Junction Transistor (GLBJT) 처자: Hyeon-Ji Yun¹, Hyun-Min Jeong², Hyurk-Choon Kwon², and Shin-Won Kang¹ 소속: ¹Department of Sensor and Display Engineering, Kyungpook National University, ²School of Electronics Engineering, College of IT Engineering, Kyungpook National Universitv A Hough Transform-Based Line Detection Accelerator **CDC014** 저자: Jeong-Rok Lee, Hyeon-Sik Son, Kyeong-ryeol Bae, and Byungin Moon 소속: School of Electronics Engineering, Kyungpook National University Wide dynamic range CMOS Linear-Logarithmic active pixel sensor **CDC015** 저자: Sung-Hyun Jo¹, Myunghan Bae¹, Minho Lee¹, Jeongyeob Kim², Byoung-Soo Choi¹, Pyung Choi¹ and Jang-Kyoo Shin^{1,2} 소속: ¹School of Electronics Engineering, College of IT Engineering, Kyungpook National University, ²Department of Sensor and Display Engineering, Kyungpook National University **CDC016** Design of Analog-Digital Signal Processing Circuit for y-ray Detection 저자: You Mi Kwon¹, Hee-Sung Kang¹, Ji-Hyun Kim¹, Soo-Jin Yu¹, Ju-Yeung Kim¹, Minho Lee¹, Young-Kyu Kwon², Deok-Hwan Hyun³, Jung-Hee Lee¹ and Yong Soo Lee¹ 소속: ¹School of Electronics Engineering, Kyungpook National University, ²Department of Electronics Engineering, Uiduk University, ³Department of Electrical Energy and Electronic Engineering, Gyeongju University 320MHz ~2.2GHz 32분주 다이나믹 D-플립플롭 디바이더 **CDC017** 저자: 정재상, 하정완, 김창우 소속: 경희대학교 전자전파공학 **CDC018** Understanding CMOS Amplifier Design Issues in D-band by Fabricating **Conventional Amplifier** 저자: S.H. Choi, K.J. Lee, and M. Kim 소속: School of Electrical Engineering, Korea University Low Area / Power Viterbi Decoder Enabled by Logic Compatible eDRAM **CDC019** 저자: Woong Choi, Gyuseong Kang and Jongsun Park 소속: School of Electrical Engineering, Korea University Low Area FFT Processor with Logic Compatible Embedded DRAM **CDC020** 저자: Gyuseong Kang, Woong Choi, and Jongsun Park 소속: School of Electrical Engineering, Korea University

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CDC021	Varification of Low Power and Ultra High Speed On-Chip CMOS Temperature Sensor 저자: Jiwoong Jang, Jinse Kim, Reum Oh, Man Young Sung 소속: Department of Electrical Engineering, Korea University
CDC022	A 6-Level Signaling Driver for High Speed Interface 저자: Tae-Hoon Lee, Seong-Ju Lee, Suki Kim 소속: School of Electrical Engineering, Korea University
CDC023	Design of a successive approximation registered ADC with a modified capacitor switching method 저자: Jung-Min Lee, and Jong-In Song 소속: School of Information and Communications, GIST
CDC024	A Chopper-Stablized Current-Feedback Instrumentation Amplifier with a Tunable Gain and Low-cutoff Frequency for EEG Acquisition Applications 저자: Chung-Jae Lee, and Jong-In Song 소속: School of Information and Communications, GIST
CDC025	Characterization of Interface States based on the Sub-bandgap Photonic Subthreshold Current in MOSFETs 저자: Jungmin Lee, Jun Seok Hwang, Jaeyeop Ahn, Hyunjun Choi, Hagyoul Bae, Sungwoo Jun, Jinsu Yoon, Sung-Jin Choi, Dae Hwan Kim and Dong Myong Kim 소속: School of Electrical Engineering, Kookmin University
CDC026	Oscillation RF-DC Converter for Wireless Energy Harvesting 저자: Jihoon Lee, Wonjae Jung, Hyobin Jung, Yoonjae Nam, Donggyun Yoo, Yongki hur and Junseok Park 소속: School of Electronical Engineering, Kookmin University
CDC027	An Active Switching DC-DC Converter for wireless energy harvester 저자: Jihoon Lee, Wonjae Jung, Hyobin Jung, Snaggu Yoon, Donggyun Yoo, Yongki Hur and Junseok Park 소속: School of Electronical Engineering, Kookmin University
CDC028	A Design of High Efficiency Microwave Wireless Power Acceptor IC 저자: Jihoon Lee, Wonjae Jung, Hyobin Jung, Anggu Yoon, Yoonjae Nam, Yongki hur and Junseok Park 소속: School of Electronical Engineering, Kookmin University
CDC029	A Design of Up-Down Converter for WCDMA Repeater 저자: Hyo-Bin Jung, Won-Jae Jung, Sang-Kyu Kim, Se-Mi Lim, Ji-Hoon Lee, Kyu-Hyun Nam, Jun-Seok Park 소속: School of Electrical Engineering, Kookmin University

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Place	Room M/ 제1공학관 508호 (# 508, Engineering Building I)
CDC030	A Design of Transceiver for Advanced UHF band RFID Reader 저자: Hyo-Bin Jung, Won-Jae Jung, Sang-Kyu Kim, Se-Mi Lim, Ji-Hoon Lee, Kyu-Hyun Nam, Jun-Seok Park 소속: School of Electrical Engineering, Kookmin University
CDC031	16-channel LED Driver IC for Full-Color LED Display 저자: Hyobin Jung, Wonjae Jung, Sanggu Yoon, Yoonjae Nam, Donggyun Yoo and Jun- Seok Park 소속: School of Electronical Engineering, Kookmin University
CDC032	2 A Design of Wideband Programmable Gain Amplifier(PGA) for LTE Repeater System 저자: Hyo-Bin Jung, Jun-Seok Park 소속: School of Electrical Engineering, Kookmin University
CDC033	8 A 10-bit 10-MS/s Asynchronous Successive Approximation Register ADC using MOM Capacitive DAC 저자: Yeon-Ho Jeong, Sang-Min Park, and Young-Chan Jang 소속: Department of Electronic Engineering, Kumoh National Institute of Technology
CDC034	2조 동선에서 500 Mbps 이더넷 전송이 가능한 물리적 부호계층의 설계 저자: 전성배, 박해원, 정해 소속: 금오공과대학교 전자공학과
CDC035	5 A CMOS Conductometric Sensor Readout Circuit Design Using Single-Wall Carbon Nanotube Sensor Arrays 저자: JongHo Park ¹ , Cheolhwan Lim ² , Sujith S Dermal ² , Sungyong Jung ² and Hoon-Ju Chung ¹ 소속: ¹ School of Electronic Engineering, Kumoh National Institute of Technology, ² Electrical Engineering Department, The University of Texas at Arlington
CDC036	5 On-Chip Spectral Analyzer 저자: Woo-Hun Hong, Byeong-Ho Kang, Kyung Ki Kim 소속: School of Electronic and Electrical Engineering, Daegu University
CDC037	An 8b 2GS/s Time-Interleaved Folding-Interpolation ADC with Self-Calibration 저자: Donggwi Choi, Daeyun Kim and Minkyu Song 소속: Department of Semiconductor Science Dongguk University
CDC038	A CMOS Image Sensor based on a Cyclic ADC with a Digital Logarithmic Counter 저자: Kyungtae Kim, Daeyun Kim and Minkyu Song 소속: Department of Semiconductor Science, Dongguk University

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Place	Room M/ 제1공학관 508호 (# 508, Engineering Building I)
CDC039	6-bit 1GS/s Fully Differential Current Steering DAC 저자: GeunYeong Park, ChaeYeol Lim and MinKyu Song 소속: Department of Semiconductor Science, Dongguk University
CDC040	An Implementation of H.264 Decoder with Reference Frame Access Optimization 저자: Eunchong Lee, Youngsuk Kang, Donggil Kang, Jeongwoo Yoo and Youpyo Hong 소속: Division of Electronics and Electrical Engineering, Dongguk University
CDC041	GPS/Galileo를 동시 지원하는 멀티밴드 저전력 65-nm CMOS RF 수신기 저자: 최치훈 ¹ , 최준우 ² , 김민수 ¹ , 남일구 ¹ 소속: ¹ 부산대학교 전기공학과, ² SK하이닉스 Mobile 개발본부
CDC042	A 1-4Gb/s All Digital CDR 저자: Isak Hwang and Jinwook Burm 소속: Department of Electronic Engineering, Sogang University
CDC043	CMOS rectifier circuit for Piezoelectric Energy Harvesting Device 저자: Dongjae Han, Seunghwan Song and Kwang-Seok Yun 소속: Department of Electronic Engineering, Sogang University
CDC044	94 GHz Resistive Mixer 저자: Jihoon Kim, Hongjong Park, Sangho Lee, and Youngwoo Kwon 소속: Department of EESC and INMC, Seoul National University
CDC045	V-band Low Noise Amplifier for 60GHz WPAN Applications 저자: Hongjong Park, Sangho Lee, and Youngwoo Kwon 소속: Department of EECS and INMC, Seoul National University
CDC046	26-GHz VCO와 주파수 3 체배기를 이용한 77-GHz QVCO 설계 저자: 송재훈, 남상욱 소속: 서울대학교 뉴미디어 통신공동연구소
CDC047	A CMOS Integrated Carbon Nanotube Biosensor Array with AC Measurement Capability 저자: Seok Hynag Kim, Jin-Hong Ahn and Young June Park 소속: Department of Electrical and Computer Engineering, Seoul National University
CDC048	A 4.0-6.0GHz All-Digital Phase-Locked Loop with a Digitally Controlled Oscillator Using Digitally Controlled Current Source 저자: Sungwoo Kim, Taeho Kim, Sungchun Jang, Sanghyeok Chu, Deog-Kyoon Jeong 소속: Department of Electrical and Computer Engineering, Seoul National University
CDC049	Implementation of Multiple Event Handling Processor 저자: Dabujin Lee, Sehyun Song, Kichul Kim 소속: School of Electrical and Computer Engineering, University of Seoul

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CDC050	Current-Mode SAR ADC for Resistance Variation Analysis Aimed at Adaptive Reference Control in Cross-Point ReRAM 저자: Se-Jin Baik ¹ , Jong-Min Baek ¹ , Sang-Yun Kim ^{1,2} , Jae-Koo Park ¹ , Kee-Won Kwon ¹ 소속: ¹ College of Information and Communication Engineering, Sungkyunkwan Univ., ² Memory Division, Samsung Electronics Co., LTD.
CDC051	PFM/PWM Dual Mode Feedback LED BLU Driver IC 저자: Hong-Jin Kim, Young-Jun Park, Chang-Jae Yoo, and Kang-Yoon Lee 소속: IC Lab, SungKyunKwan University
CDC052	V-band PLL용 60GHz VCO의 설계 저자: 이종석, 문용 소속: 숭실대학교 전자공학과
CDC053	Supply Modulator with Compact Size 저자: Seokhyun Yoon, Changhyun Lee, and Changkun Park 소속: School of Electronic Engineering, Soongsil University
CDC054	Improved Layout of LC Tank for Voltage Controlled Oscillator 저자: Milim Lee, and Changkun Park 소속: School of Electronic Engineering, Soongsil University
CDC055	넓은 입력 범위를 갖는 가변 이득 시간 증폭기 저자: Doohyun Shon and Taewook Kim 소속: Department of Electrical & Electronic Engineering, Yonsei University
CDC056	77 GHz 90°, 45°, 22.5° 위상 변위기 설계 저자: 이효성, 민병욱 소속: 연세대학교 전기전자공학부
CDC057	발룬을 이용한 C-Band 마이크로파 스위치 설계 저자: 김경원, 민병욱 소속: 연세대학교 전기전자공학과
CDC058	Step Response Calculation of a Single-Ended Buffer with Arbitrary Power-Supply Voltage Fluctuations 저자: Eunkyeong Park, Junho Lee, Jingook Kim 소속: School of Electrical and Computer Engineering, UNIST
CDC059	초소형 센서노드를 위한 MPPT 제어기능을 갖는 삼중입력 에너지 하베스팅 회로 설계 제 저자: 윤은정, 박종태, 유종근 소속: 인천대학교 전자공학과

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Place	Room M/ 제1공학관 508호 (# 508, Engineering Building I)
CDC071	Band Pass Filter with Pseudo-Resistor for Biosensor signal detection 저자: Nam Pyo Hong, Chung-Gun Kim, and Young Wan Choi 소속: School of Electrical and Electronics Engineering, College of Engineering, Chung- Ang University
CDC072	Noise analysis of CMOS pre-amplifier design 저자: In-II JUNG ¹ and Young-Wan Choi ² 소속: ¹ Rare Isotope Science Project, Institute for Basic Science, ² School of Electrical and Electronics Engineering, Chung-Ang University
CDC073	A Light Amplitude Modulated Neural Stimulator with Photodiode for Visual Prostheses 저자: Kyomuk Lim, Jindeok Seo, Changho Seok, Hyounho Kim, Seunghyun Im, and Hyoungho Ko 소속: Department of Electronics, Chungnam National University
CDC074	9 bit SAR ADC with Kickback Noise Reduced Comparator 저자: 임승현, 서진덕, 임교묵, 석창호, 김현호, 고형호 소속: 전자공학과 충남대학교, 차세대전자기판회로학과 충남대학교
CDC075	A Digital Hearing Aid SoC in 65nm CMOS 저자: Wooseok Byun, Hyeji Kim, Yeon-Tae Kim, and Ji-Hoon Kim 소속: Department of Electronics Engineering, Chungnam National University
CDC076	Kogge-Stone 바이패싱 덧셈기 설계 저자: 안종훈, 최성림, 남병규 소속: 충남대학교 컴퓨터공학과
CDC077	' A capacitance multiplier using the current conveyors 저자: Dae-Hwan Lee, Min-Su Kim, and Yeong-Seuk Kim 소속: Department of Semiconductor Engineering, Chungbuk National University
CDC078	HV EDMOS with LNDC (laterally Non-uniform Doped Channel) 저자: Min-Hyuk Sung ¹ , Min-Su Kim ¹ , Ki-Ju Baek ¹ , Yeong-Seuk Kim ¹ and Kee-Yeol Na ² 소속: ¹ Department of Semiconductor Engineering, Chungbuk National University, ² Department of Semiconductor Electronics, Chungbuk Provincial College
CDC079) 프로세서 침입탐지를 위한 아날로그 센서 회로 설계 저자: 고강호, 신상진, 김석만, 조경록 소속: 충북대학교 정보통신공학과
CDC080	Highly efficient supply modulator for Envelope Tracking RF Power Amplifier (ET RF PA) 저자: Jimin Kwon, Jungjoon Kim, and Bumman Kim 소속: Department of Electrical Engineering, POSTECH

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Date Feb. 25, 2014 (Tue.) Room M/ 제1공학관 508호 (# 508, Engineering Building I) Place **CDC081** Highly efficient quadrature transmitter using RF Digital-to-Analog Converter (RF DAC) 저자: Hadong Jin, Dongsu Kim, and Bumman Kim 소속: Department of Electrical Engineering, POSTECH A 0.4 V Driving Multi-Touch Capacitive Sensor with the Driving Signal Frequency **CDC082** set to (n+0.5) Times the Inverse of the LCD VCOM Noise Period 저자: Jae-seung Lee, Dong-Hee Yeo, Jae-Yoon Sim, Byung-Sub Kim, and Hong June Park 소속: Pohang University of Science and Technology (POSTECH) **CDC083** 1축 진동형 MEMS 자이로의 구동회로 제작 저자: 김민서¹, 임을수³, 권혁진², 황인철³, 임근배² 소속:¹포항공과대학교 융합생명공학부,²포항공과대학교 기계공학과,³강원대학교 전 기전자공학과 **CDC084** 6.2 – 9.7 GHz LNA Using Series RLC Input Matching and Resistive Feedback 저자: Ji An Park, Choon Sik Cho 소속: School of Electronics, Telecommunication and Computer Engineering, Korea Aerospace University **CDC085** 10-bit, 40 MS/s, 30 mW Pipelined ADC in 0.18 um CMOS Technology 저자: Cheolmin Ahn, Youngsik Kim 소속: Department of Information and Technology, Handong Global University **CDC086** Design and Implement of 8-bit Segmented Type DAC in 0.35 um Technology 저자: Cheolmin Ahn, Youngsik Kim 소속: Department of Information and Technology, Handong Global University **CDC087** An Envelope Tracking Modulator for the Mobile Power Amplifiers 저자: Minchul Kim and Junghyun Kim 소속: Department of the Electronics and System Engineering, Hanyang University **CDC088** PFM-PWM Dual-mode Circuit using CMOS OTAs 저자: Min-Hye Kang, Fan Zhang, and Hee-Jun Kim 소속: Department of Electronic Systems Engineering, Hanyang University Wide gain Range Variable Gain Amplifier **CDC089** 저자: Chang-Woo Lim and Tae-Yeoul Yun 소속: Department of Electrical Engineering and Computer Science, Hanyang University **CDC090** A High-Image-Quality Data Driver IC for Flat Panel Displays 저자: Jong-Seok Kim and Byong-Deok Choi 소속: Department of Electronic Engineering, Hanyang University

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Place	Room M/ 제1공학관 508호 (# 508, Engineering Building I)
CDC091	A CMOS Temperature Sensor Using Multi-Core Structure 저자: Tai-Soon Park, and Sang-Gyu Park 소속: Department of Electronics Computer Engineering, Hanyang University
CDC092	High-Linearity Variable-Gain Drive Amplifier 저자: Jun-Young Park and Tae-Yeoul Yun 소속: Department of Electrical Engineering and Computer Science, Hanyang University
CDC093	Capacitive Touch Screen Panel Readout Circuit against Display Noise 저자: Duhyun Jeon, Hyun-Woo Kim, and Byong-Deok Choi 소속: Department of Electronic Engineering, Hanyang University
CDC094	10-bit Two-Step Single Slope ADC for A Low-Power CMOS Image Sensor 저자: Duhyun Jeon, Don-gu Lee, and Byong-Deok Choi 소속: Department of Electronic Engineering, Hanyang University
CDC095	Energy/Power efficient Multimedia Processor for Low-Level Image Processing with DVFS and Dynamic gating 저자: Jun-Seok Park, Hyo-Eun Kim, Sang-Hye Chung, Jaehyeong Sim, Wongyu Shin, Dongil Lee, Jeongmin Yang, and Lee-Sup Kim 소속: Department of Electrical Engineering, KAIST
CDC096	An Inductorless Wideband LNA in 0.18-µm CMOS Technology 저자: Yang Hun Lee, Sun Yool Kang, and Chul Soon Park 소속: Department of Electrical Engineering, KAIST
CDC097	BER optimum adaptive reference calibration ADC 저자: Sejun Jeon, Hyeon-Min Bae 소속: Department of Electrical Engineering, KAIST
CDC098	A Low-Power Parallel Multiplier based on Optimized Bypassing Architecture 저자: Sunjoo Hong, Hyunki Kim, and Hoi-Jun Yoo 소속: Department of Electrical Engineering, KAIST
CDC099	A Dynamic Electrode Impedance Matched Acupuncture-Type Diagnosis System 저자: Kiseok Song, Taehwan Roh, Minseo Kim, and Hoi-Jun Yoo 소속: Division of Electrical Engineering, School of EE, KAIST
CDC100	Adaptive Output-Voltage Boost Converter for Compact Electro-Acupuncture System 저자: Hyungwoo Lee, Yongsu Lee, and Hoi-Jun Yoo 소속: Department of Electrical Engineering, KAIST

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Place	Room M/ 제1공학관 508호 (# 508, Engineering Building I)
CDC101	A 34.1fps Scale-space Processor with Two-dimensional Cache for Real-time Object Recognition 저자: Youchang Kim, Junyoung Park, Gyeonghoon Kim, Jin-Mook Lee, and Hoi-Jun Yoo 소속: Department of Electrical Engineering, KAIST
CDC102	A 37.5 μW Body Channel Communication Wake-up Receiver with Injection- locking Ring Oscillator for Wireless Body Area Network 저자: Hyunwoo Cho, Joonsung Bae, Jaeeun Jang, and Hoi-Jun Yoo 소속: Department of Electrical Engineering, KAIST
CDC103	High-speed Support Vector Machine Processor 저자: Junyoung Park, Kyeongryeol Bong, and Hoi-Jun Yoo 소속: Department of Electrical Engineering, KAIST
CDC104	Retinex Image Enhancement Processor for Robust Illumination Adaptation 저자: Junyoung Park, Sung-Pill Choi, and Hoi-Jun Yoo 소속: Department of Electrical Engineering, KAIST
CDC105	5 A Low-Power Integrator Circuit Design for Infrared Sensor 저자: Yeong Seon Kim, Hee Chul Lee 소속: Department of Electrical Engineering, KAIST
CDC106	Self-bias controlled ROIC for Uncooled Infrared sensors 저자: Y. M. Jo, D. H. Woo and H. C. Lee 소속: Department of Electrical Engineering, KAIST
CDC107	Emulated zero-inductor current sensor for buck-type DC-DC converter 저자: Sung-Wan Hong 소속: Department of Electrical Engineering, KAIST
CDC108	CMOS Band-gap Reference with High PSRR and Low TC 저자: Seki Kim, Gyu-Hyeong Cho 소속: KAIST
CDC109	적혈구 응집능 측정 Read-Out IC 설계 저자: 최석환, 조규형 소속: 한국과학기술원 전기및전자공학과
CDC110	5 Level Audio Power Amplifier for reducing the switching noise and EMI effect 저자: Young-Sub Yuk, Hui-Dong Gwon, Sung-Won Choi, and Gyu-Hyeong Cho 소속: Department of Electrical Engineering, KAIST
CDC111	40V 16 channels PWM LED current driver for display applications 저자: Park, Changbyung 소속: Department of Electrical Engineering, KAIST

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CDC112	PWM LED Current Diver Feedback Voltage Generator for Boost Converter in LED BLU 저자: Park, Changbyung 소속: Department of Electrical Engineering, KAIST
CDC113	On Chip PID Compensation 저자: Sung-woo Lee, Gyu-Hyeong Cho 소속: KAIST
CDC114	Digitally Aided Analog Multiplier Based on a Resistor-String Digital to Analog Converter 저자: Seungchul Jung and Gyu-Hyeong Cho 소속: KAIST
CDC115	A Novel Current Balancing Technique for the Four-Phase Buck 저자: Jun-Han Choi, and Gyu-Hyeong Cho 소속: Department of Electrical Engineering, KAIST
CDC116	A Layout Technique for the Highly-Matched Current Bias Cell 저자: Jun-Han Choi, and Gyu-Hyeong Cho 소속: Department of Electrical Engineering, KAIST
CDC117	Streaming ISO18000-6 Type C RFID Tag Design 저자: Joon Goo Lee, Seon Wook Kim, Jae-Sung Rieh, Jongsun Park, and Chulwoo Kim 소속: School of Electrical and Computer Engineering, Korea University
CDC118	저 복잡도를 가지는 2Gbps급 IEEE 802.11ac용 LDPC 인코더의 FPGA 구현 저자: 박효빈, 김나래, 이성주 소속: 세종대학교 정보통신공학과
CDC119	Design of a Fractional-N Frequency Synthesizer for Near Field Communication 저자: Hyuk Ryu, Keum-Won Ha, Joonhong Park, and Donghyun Baek 소속: School of Electrical Engineering, Chung-Ang University
CDC120	용량형 입력 임피던스 증가 루프를 적용한 생체 신호 측정 회로 저자: 석창호 ¹ , 임교묵 ² , 서진덕 ¹ , 김현호 ¹ , 임승현 ¹ , 고형호 ^{1,2} 소속: ¹ 충남대학교 전자공학과, ² 충남대학교 차세대전자기판회로학과
CDC121	트위스티드 연결구조를 이용한 small 스윙 도미노 회로 저자: 안상윤, 김석만, 조경록 소속: 충북대학교 정보통신공학
CDC122	M2M authentication module based on PUFs 저자: Piljoo Choi and Dong Kyue Kim 소속: Department of Electronics Engineering, Hanyang University

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Place	Room M/ 제1공학관 508호 (# 508, Engineering Building I)
CDC123	Offline User Authentication Method of Smart Card using PUF 저자: Jae Seong Lee and Dong Kyue Kim 소속: Department of Electronics and Computer Engineering, Hanyang University
CDC124	AES hardware module with masking against side channel attacks 저자: Jae Seong Lee and Dong Kyue Kim 소속: Department of Electronics and Computer Engineering, Hanyang University
CDC125	Low-Power Design of Hardware One-Time-Password Generators for Card-Type OTPs
CDC126	저자: Sung-Jae Lee, Jae Seong Lee, Mun-Kyu Lee, Sang Jin Lee, Doo-Ho Choi and Dong Kyue Kim 소속:Hanyang University Built-in Hardware Pseudo-Random Test Module for Physical Unclonable Functions
CDC127	저자: Jae Seong Lee, Piljoo Choi, Song-Ju Kim, Byong-Deok Choi, and Dong Kyue Kim 소속:Hanyang University Benzene Gas Detection using A Mosfet-BJT Hybrid Mode Operated Gated Lateral BJT
CDC128	저자: H. Yuan, H.M. Jeong, J.S. Lee, B.H. Kang, S.H. Yeom, S.W. Lee, S.H. Kim, J.K. Shin, and S.W. Kang 소속:Kyungpook National University 0.18µm CMOS 공정을 이용한 12-bit 1MSps 연속 근사화 아날로그-디지털 변환기 설 계
CDC129	저자: 성명우, 최성규, 김성우, 김신곤, 이주섭, 오세명, 서민수, 류지열 소속:Pukyung National University CMOS 스위치를 이용한 디지털 이득 제어 구조의 PGA 설계
CDC130	저자: 김철환, 박승훈, 이정훈, 임재환, 이주섭, 최근호, 임윤성, 류지열 소속:Pukyung National University A New Low-Power Programmable CMOS Gain Amplifier
	저자: Seung-Hun Park, Jung-Hoon Lee, Sung-Woo Kim, Seung-Kyu Choi, Cheol-Hwan Kim, Myeong-U Seong, Shin-Gon Kim, and Jee-Youl Ryu 소속:Pukyung National University
CDC131	PET Detector with Adaptive Circuits 저자: Himchan Park, Kyunghoon Kim and Jinwook Burm

소속:Sogang University

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CDC132	An Arbitrary Waveform 16 Channel Neural Stimulator with Adaptive Supply Regulator in 0.35 μm HV CMOS for Visual Prosthesis
CDC133	저자: Jindeok Seo, Kyomuk Lim, Sangmin Lee, Jaehyun Ahn, Seokjune Hong, Hyungjung Yoo, Sukwon Jung, Sunkil Park, Dong-il"Dan"Cho, and Hyoungho Ko 소속:Seoul National University Multi-Channel Stimulator IC using a Channel Sharing Method for Retinal Prostheses
CDC134	저자: Jae-Hyun Ahn, Sang-Min Lee, Seok-June Hong, Hyung-Jung Yoo, Suk-Won Jung, Sun-Kil Park, Hyoung-Ho Ko, anse Dong-il"Dan"Cho 소속:Seoul National University A 2.0GHz Sub-Harmonically Injection-Locked Ring PLL with Self-Coordinated Injection Timing
CDC135	저자: Kyoung-Ho Kim, Chi-Hun Song, and Kee-Won Kwon 소속:Sungkyunkwan University An Improved Supply Regulator for Ring Oscillator in Split-Tuned Phase-Locked Loops
CDC136	저자: Chi-Hun Song, Jong-Moon Choi, Kyoung-Ho Kim, and Kee-Won Kwon 소속:Sungkyunkwan University 초광대역 임펄스 라디오를 위한 CMOS 펄스발생기
CDC137	저자: 김원종, 권익진 소속:Ajou University A 6-bit 500MS/s CMOS A/D Converter with a Digital Input Range Detection Circuit
CDC138	저자: Dai Shi, Gi-Yoon Lee, Sang Min Lee, and Kwang Sub Yoon 소속:Inha University 뉴런 신호 자극을 위한 8비트 전류 구동형 DAC
CDC139	저자: 박지현, D. Shi, 윤광섭 소속:Inha University Design of High-Linear CMOS Circuit using a Constant Transconductance Method for Gamma-Ray Detection System
CDC140	저자: In-II Jung, Ju Hahn Lee, Chun Sik Lee and Young-Wan Choi 소속:Chung-Ang University Low Power 20-GHz Current-Mode Frequency Divider in 0.18-µm CMOS Phase- Locked Loop
	저자: Jungwoong Park and Namsoo Kim ,Hyeim Jeong, Kyeongrok Lee, and Hoyong Choi 소속:Chungbuk National University

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CDC141	A Single-Chip Time-Interleaved 32-Channel Analog Beamformer for Ultrasound Medical Imaging
	저자: Ji-Yong Um, Jae-Hwan Kim, Eun-Woo Song, Yoon-Jee Kim, Jae-Yoon Sim, Hong- June Park
CDC142	소속:Pohang University of Science and Technology 전치 증폭기 공유 기법을 이용한 8-bit 10-MSample/s Folding & Interpolation ADC
CDC143	저자: 안철민, 김영식 소속:Handong Global University 동시 양방향 통신이 가능한 2-Gbps 인덕터 결합 링크
	저자: 전민기*, 유창식** 소속:Hanyang University
CDC144	A Simultaneous Multithreading Heterogeneous Object Recognition Processor with Machine Learning Based Dynamic Resource Management
	저자: JinWook Oh, Gyeonghoon Kim, Junyoung Park, Injoon Hong, Seungjin Lee, Joo- Young Kim, and Hoi-Jun Yoo 소속:KAIST
CDC145	내방사선용 Shift Register의 제작 및 양성자를 이용한 SEU 측정 평가
	저자: 강근훈, 노영탁, 이희철 소속:KAIST
CDC146	우주용 ADC의 누적방사선량 영향 분석
	저자: 김태효 , 이희철 소속:KAIST
CDC147	Emulated Multi-Path PID Compensator for Buck Converters with Large Step- Down Ratio
	저자: Se-Won Wang, Young-Jin Woo, Gyu-Ha Cho, Gyu-Hyeong Cho 소속:KAIST
CDC148	An 8-bit Compact Hybrid DAC for Current-Mode Driving AMOLED Displays
	저자: Jin-woo Kim,Jin-Chul Lee, Hyun-Sik Kim, Jun-Hyeok Yang, Sang-Hui Park and Gyu-Hyeong Cho 소속·KAIST
CDC149	A 0.791mm2 Fully On-Chip Controller with Self-Error-Correction for Boost DC-DC Converter Based on Zero-Order Control
	저자: Tae-Hwang Kong, Sung-Wan Hong, Sungwoo Lee, Jong-Pil Im, Gyu-Hyeong Cho 소속:KAIST