2016년 2월 22일(월)-24일(수), 강원도 하이원리조트

Room E

컨벤션홀 L(5층)

2016년 2월 23일(화) 17:10-18:30 [TP1] Poster I

TP1-1	17:10-18:30	Characteristics of Micro-channel Liquid Cooling System with Various Metal Heat Spreaders and Coolants Yonghyun Won ¹ , Sungdong Kim ² , and Sarah Eunkyung Kim ¹ ¹ Graduate School of NID Fusion Technology, Seoul National University of Science and Technology, ² Department of Mechanical System Design Engineering, Seoul National University of Science and Technology
TP1-2	17:10-18:30	Optimizing Latch Design to Improve the Warpage of Ultra-thin Packaged Chips after Thermocompression Reliability Test Keonghwan Oh ¹ , Chul Keu Yoon ² , Jae Hyun Son ² , Cheol Woo Han ² , and Sarah Eunkyung Kim ¹ ¹ Graduate school of NID Fusion Technology, Seoul National University of Science and Technology, ² Interconnection Product & Technology, Manufacturing and Technology, SK hynix Inc.
TP1-3	17:10-18:30	Aging and Gas Purging Effect on Sonochemical Surface Activation for Cu Electroless Deposition Kanghoon Kim, Seonok Jin, Hyeonjoon Lee, Youngkwang Kim, and Oh Joong Kwon Department of Energy and Chemical Engineering, Incheon National University
TP1-4	17:10-18:30	Sonochemical Pd Seeding Method for Cu Electroless Filling Kanghoon Kim, Hyun Ji Choi, Hyeonjoon Lee, Youngkwang Kim, and Oh Joong Kwon Department of Energy and Chemical Engineering, Incheon National University
TP1-5	17:10-18:30	Cobalt Titanium Nitride Grown by Atomic Layer Deposition as a Diffusion Barrier for Cu Interconnect Taewook Nam ¹ , Soohyeon Kim ¹ , Chang Wan Lee ¹ , Daewon Hong ² , Hyungjun Kim ¹ , and Han-Bo-Ram Lee ³ ¹ School of Electrical and Electronic Engineering, Yonsei University, ² The Dow Chemical Company, USA, ³ Department of Materials Science and Engineering, Incheon National University
TP1-6	17:10-18:30	Improvements in Ink-synthesized Cu-gate Thin Film Transistor with TaN Diffusion Barrier

Whang Je Woo, Taewook Nam, and Hyungjun Kim

School of Electrical and Electronic Engineering, Yonsei University

TP1-7	17:10-18:30	탄소나노튜브와 탄성고분자를 이용한 신축가능한 전극 개발 이소영 ^{1,2} , 심형철 ² , 현승민 ² , 이후정 ¹ ¹ 성균관대학교, ² 한국기계연구원
TP1-8	17:10-18:30	Fabrication of Flexible and Printable Sb ₂ Te ₃ Inorganic/Organic Hybrid Thermoelectric Film Haesun Shin, Yonghoo, and Hoojeong Lee Department of Advanced Materials Science and Engineering, Sungkyunkwan University
TP1-9	17:10-18:30	그래핀 저온 합성 공정을 이용한 구리/그래핀 구조 제작 및 배선 특성 손명우 ¹ , 이한결 ² , 김기현 ² , 함문호 ^{1,2} ¹ 광주과학기술원 나노바이오재료전자공학과, ² 광주과학기술원 신소재공 학부
TP1-10	17:10-18:30	필 링속도가 스크린 프린팅 Ag/Polyimide의 계면접착력에 미치는 영향 손기락, 이현철, 박영배 <i>안동대학교 신소재공학부 청정에너지 소재기술연구센터</i>
TP1-11	17:10-18:30	3차원 칩 적층을 위한 Cu/Ni/Sn-Ag 미세범프의 Ni 확산방지층 및 솔더의 두께가 계면반응에 미치는 영향 김가희, 박규태, 이진아, 손기락, 박영배 안동대학교 신소재공학부 청정에너지 소재기술연구센터
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TP1-12	17:10-18:30	Ruthenium Thin Films by Atomic Layer Deposition using New Zero Valent Ru Precursors as a Seed Layer for Cu Metallization Min Young Lee ¹ , Seung-Joon Lee ¹ , Taehoon Cheon ^{1,2} , Tae Eun Hong ³ , Wonyong Koh ⁴ , and Soo-Hyun Kim ¹ ¹ School of Materials Science and Engineering, Yeungnam University, ² Center for Core Research Facilities, Deagu Gyeonbuk institute of Science & Technology, ³ Busan Center, Korea Basic Science Institute, ⁴ UP Chemical
TP1-13	17:10-18:30 17:10-18:30	Valent Ru Precursors as a Seed Layer for Cu Metallization Min Young Lee ¹ , Seung-Joon Lee ¹ , Taehoon Cheon ^{1,2} , Tae Eun Hong ³ , Wonyong Koh ⁴ , and Soo-Hyun Kim ¹ ¹ School of Materials Science and Engineering, Yeungnam University, ² Center for Core Research Facilities, Deagu Gyeonbuk institute of Science & Technology, ³ Busan Center, Korea Basic Science Institute, ⁴ UP

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TP1-15	17:10-18:30	Ru-Mn Alloy Thin Films by Atomic Layer Deposition using a Bimetallic Metalorganic Precursor for a Cu Direct-plateable Diffusion Barrier Soonyoung Jung ¹ , Hyun-Jung Lee ¹ , Taehoon Cheon ^{1,2} , Tae Eun Hong ³ , Ryosuke Harada ⁴ , Shunichi Nabeya ⁴ , and Soo-Hyun Kim ¹ ¹ School of Materials Science and Engineering, Yeungnam University, ² Center for Core Research Facilities, Deagu Gyeonbuk Institute of Science and Technology, ³ Busan Center, Korea Basic Science Institute, ⁴ Tanaka Precious Metals, Japan
TP1-16	17:10-18:30	Tantalum Nitride Thin Films Deposited by Atomic Layer Deposition using a Tert-Butylimido-Tris-Ethylmethylamido-Tantalum(TBTEMT) Precursor as a Photoanode for Water Splitting Seungmin Yeo ¹ , Byeong Hyeon Jang ² , Seungtaeg Oh ³ , Jihun Oh ³ , Soo-Hyun Kim ² , and Hyungjun Kim ¹ 1 Scool of Electrical and Electronic Engineering, Yonsei University, 2 School of Materials Science and Engineering, Yeungnam University, 3 Graduate School of Energy Environment Water and Sustainability, KAIST
TP1-17	17:10-18:30	도핑된 그래핀과 금속전극 간의 접촉저항 향상 최동철, 정종완, 정운영, 김민우 세종대학교 나노신소재공학과 나노소자연구실
TP1-18	17:10-18:30	Method for Forming Flexible and Porous Layer-by-Layer Materials Having Low Dielectric Constant Daekyun Jeong, Jiwon Lee, and Jaegab Lee School of Advanced Materials Engineering, Kookmin University
TP1-19	17:10-18:30	Adhesion Improvement between Prepreg and BaTiO ₃ by Plasma Press Doosan Kim ¹ , Mu Kyeom Mun ¹ , and Geunyoung Yeom ^{1,2} ¹ Department of Advanced Materials Science and Engineering, Sungkyunkwan University, ² SKKU Advanced Institute of Nano Technology, Sungkyunkwan University
TP1-20	17:10-18:30	Development of Integrated Transceiver for Vehicle Network System using Surface Mount Technology Tae ho Lee ¹ , Choul jun Kang ³ , Sang yub Lee ³ , and Myung yung Jeong ^{1,2} ¹ BK ²¹ + Nano-integrated Cogno-mechatronics Engineering, Pusan National University, ² Department of Cogno-mechatronics Engineering, Pusan National University, ³ IT Application Research Center, Korea Electronics Technology Institute
TP1-21	17:10-18:30	Atomic Layer Deposition of Cobalt Thin Film for Cobalt Silicide Formation Wan-Gyu Lim ¹ , Jae-Min Park ¹ , Jae-Won Lee ² , Wonyong Koh ² , and Won-Jun Lee ¹

¹Department of Nanotechnology and Advanced Materials Engineering,

Sejong University, ²UP Chemical Co., Ltd.

TP1-22	17:10-18:30	The Si-photonic Optical Packaging by Embedding of VCSEL in SOI Wafer Seong-Hwan Kim, Jong-Hun Kim, and Hyo-Hoon Park KAIST
TP1-23	17:10-18:30	Characterization of P-type SnO Thin Films with SnO/Sn Composite Target for Transparent Device Applications Cheol Kim ¹ , Sungdong Kim ² , and Sarah Eunkyung Kim ¹ ¹ Graduate School of NID Fusion Technology, Seoul National University of Science and Technology, ² Department of Mechanical System Design Engineering, Seoul National University of Science and Technology
TP1-24	17:10-18:30	Preparation and Characterization of Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ Films by RF-Sputtering Method Young Hwan Lee, Min Hyuk Park, Yu Jin Kim, Han Joon Kim, Taehwan Moon, Keum Do Kim, Seung Dam Hyun, and Cheol Seong Hwang Department of Materials Science and Engineering and Inter-university Semiconductor Research Center(ISRC), Seoul National University
TP1-25	17:10-18:30	Equivalent Oxide Thickness Scaling for Hybrid Dielectric Thin Film without using Noble Metal Electrode Ji-Hoon Ahn Department of Electronic Material Engineering, Korea Maritime and Ocean University
TP1-26	17:10-18:30	The Effect of Al Concentration on Resistive Switching Random Access Memory Implemented Solution-processed Al-Zn-Sn-O Thin Film Kwang-Won Jo and Won-Ju Cho Department of Electrical Material Engineering, Kwangwoon University
TP1-27	17:10-18:30	Pulsed Laser-Induced N-doped Graphene Growth on SiC substrate Tae Hong Im and Keon Jae Lee Department of Materials Science and Engineering, KAIST
TP1-28	17:10-18:30	Carrier Suppressing Effect of Zr in Solution-Derived In-Zn-O based Thin-Film Transistor and Instability Improvement by Microwave Irradiation Do-Hoon Kim and Won-Ju Cho Department of Electrical Material Engineering, Kwangwoon University
TP1-29	17:10-18:30	Diode Characteristics of Amorphous MoS ₂ Grown on <i>p</i> -Si Wafer by Atomic Layer Deposition Seokhee Shin, Zhenyu Jin, Seungju Han, DongHyun Ko, Ranjith Bose, and Yo-Sep Min Department of Chemical Engineering, Konkuk University
TP1-30	17:10-18:30	The Statistical Analysis of Energy Consumption of Organic Non- volatile Resistive Memory Devices on Flexible PEN Substrate Jingon Jang, Younggul Song, Daekyoung Yoo, Kyungjune Cho, Youngrok Kim, Jinsu Pak, Misook Min, and Takhee Lee

		Department of Physics and Astronomy, Seoul National University
TP1-31	17:10-18:30	Reliability Study of Organic Memory at Elevated Temperature Youngrok Kim, Daekyoung Yoo, Jingon Jang, Younggul Song, Hyunhak Jeong, Wang-Taek Hwang, Woocheol Lee, and Takhee Lee Department of Physics and Astronomy, Seoul National University
TP1-32	17:10-18:30	Growth and Characterization of ZnO Thin Films Grown by Atomic Layer Deposition from Diethylzinc and 1, 5-pentanediol Seung-Joo Han, Seokhee Shin, Zhenyu Jin, Donghyun Ko, and Yo-Sep Min Department of Chemical Engineering, Konkuk University
TP1-33	17:10-18:30	Study on the Low Thermal Budget Annealing Technique for High Performance Amorphous In-Ga-ZnO Thin Film Transistors Hyun-Woo Lee and Won-Ju Cho Department of Electrical Materials Engineering, Kwangwoon University
TP1-34	17:10-18:30	Electrical Characteristics of the Channel Engineered amorphous IGZO Thin Film Transistors with ITO Embedded Conductive Layer Se-Yeon Hwang and Won-Ju Cho Department of Electronic Materials Engineering, Kwangwoon University
TP1-35	17:10-18:30	High-performance Amorphous In-Ga-Zn-O Thin-film Transistor with Off-planed Dual-work Function Source/Drain Structure Seung-Tae Kim and Won-Ju Cho Department of Electronic Materials Engineering, Kwangwoon University
TP1-36	17:10-18:30	Comparison of Different Organic Materials for Inorganic-organic Hybrid Insulator in the Organic Thin Film Transistor Hyeong Jun Cho ¹ , Dong-Hoon Lee ¹ , Eung-Kyu Park ¹ , Sihan Wang ¹ , Sungruel Kwon ² , Ye Ji Lee ² , Dongguen Jung ² , and Yong-Sang Kim ¹ 1 School of Electronic and Electrical Engineering, Sungkyunkwan University, Department of Physics, Sungkyunkwan University
TP1-37	17:10-18:30	Indium-Zinc-Oxide Thin Film Transistor based PBD Ju-song Eom, Won-you Kim, Shan Fei, and Sung-jin Kim College of Electrical and Computer Engineering, Chungbuk National University
TP1-38	17:10-18:30	Oxide Transistor Fabricated by UV Assisted Spin Coating Won-You Kim, Ju-Song Eom, Shan Fei, and Sung-Jin Kim College of Electrical and Computer Engineering, Chungbuk National University
TP1-39	17:10-18:30	Interface Charge Controlled Negative Capacitance in Dielectric/Ferroelectric Thin Films Yu Jin Kim, Min Hyuk Park, Han Joon Kim, Taehwan Moon, Keum Do Kim, Cheol Hyun An, Young Hwan Lee, Seung Dam Hyun, and Cheol Seong Hwang Department of Materials Science and Engineering and Inter-university

		Semiconductor Research Center(ISRC), College of Engineering, Seoul National University
TP1-40	17:10-18:30	Enhancement of Performance in In-Ga-Zn-O Thin-Film-Transistor using Engineered Gate Dielectrics Ju-Young Pyo and Won-Ju Cho Department of Electrical Materials Engineering, Kwangwoon University
TP1-41	17:10-18:30	Analysis on the Evolution of the Ferroelectricity in Undoped HfO ₂ Films Prepared by Atomic Layer Deposition Keum Do Kim, Min Hyuk Park, Yu Jin Kim, Han Joon Kim, Taehwan Moon, Young Hwan Lee, Seung Dam Hyun, and Cheol Seong Hwang Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University
TP1-42	17:10-18:30	Low-Thermal-Budget Microwave Annealing for Activation of Phosphorus Doped Metal-Oxide-Semiconductor Field-Effect- Transistors Cheol-Min Lim and Won-Ju Cho Department of Electronic Materials Engineering, Kwangwoon University
TP1-43	17:10-18:30	Investigation of Passivation Layer Effect on Ge Substrate using SiO ₂ /Al ₂ O ₃ Bi-Layer Grown via Atomic Layer Deposition Dong Gun Kim ¹ , Jae-Ho Lee ¹ , Hyun Jae Lee ¹ , Jung-Hae Choi ² , and Cheol Seong Hwang ¹ ¹ Department of Materials Science & Engineering and Inter-university Semiconductor research Center, Seoul National University, ² Electronic Materials Research Center, Korea Institute of Science and Technology
TP1-44	17:10-18:30	시퀀셜 3차원 집적공정을 위한 고온내성이 향상된 silicide 형성 기술 Jae Won Choi, Sol Kang, Soo Yeun Han, Dong Hwi Lee, Hyun Joon Bang, and Rino Choi Department of material science, Inha University
TP1-45	17:10-18:30	Study on the Ferroelectric Domain Switching Kinetics in Dielectric/Ferroelectric Capacitors Seung Dam Hyun, Yu Jin Kim, Min Hyuk Park, Han Joon Kim, Teahwan Moon, Keum Do Kim, Young Hwan Lee, and Cheol Seong Hwang Department of Material Science and Engineering, Seoul National University
TP1-46	17:10-18:30	Effects of Deposition Temperature on the Device Characteristics of Oxide Thin-Film Transistors using In-Ga-Zn-O Active Channels Prepared by Atommic-Layer Deposition Gi-Ho Seo ¹ , Nak-Jin Seong ² , Kyujeong Choi ² , Woong-Chul Shin ² , and Sung-Min Yoon ¹ **IKyung Hee University, **2NCD Co., Ltd.**
TP1-47	17:10-18:30	Resistive-Change Memory Thin-Film Transistor Using Al-doped ZnO Won-Ho Lee, Eom-Ji Kim, and Sung-Min Yoon

		Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University
TP1-48	17:10-18:30	질소도핑된 ZnO를 이용한 그래핀 FET의 On-Off 특성 향상 김소영, 김윤지, 이상경, 황현준, 허선우, 장경은, 조천흠, 이병훈 <i>Center for Emerging Electric Devices and Systems, School of Material</i> <i>Science and Engineering, Gwangju Institute of Science and Technology</i>
TP1-49	17:10-18:30	Etching Mechanism of SiC, SiO ₂ and Si in CF ₄ /CH ₂ F ₂ /N ₂ /Ar Inductively Coupled Plasma: Effects of Input Power and Gas Pressure Jongchan Lee ¹ , Alexander Efremov ² , and Kwang-Ho Kwon ¹ ¹ Department of Control and Instrumentation Engineering, Korea University, ² Department of Electronic Devices and Materials Technology, State University of Chemistry and Technology, Russia
TP1-50	17:10-18:30	ASA Simulation을 이용한 박막 결함밀도 변화에 따른 박막 실리콘 태양전지 특성 분석 김규원 성균관대학교 정보통신대학
TP1-51	17:10-18:30	Positive Bias Temperature Stress Instability for In-Ga-Zn-O Thin-Film Transistors with Variations in Oxygen Partial Pressure during The Sputtering Deposition and Active Layer Thickness Han-Byeol Kang and Sung-Min Yoon Kyung Hee University
TP1-52	17:10-18:30	Effect of Temperature on Silicon Thin Film Deposited by Plasma Enhanced Chemical Vapor Deposition with Disilane Seok Hwan Kim ^{1,2} , Sungwoo Lee ¹ , Jongwook Kim ¹ , Jaeyoung Yang ¹ , David Lee ¹ , Keunoh Park ¹ , Gieung Hur ¹ , Jaeho Lee ¹ , Jaichan Lee ² , and Ki-Seok An ³ 1TES Co., Ltd, 2Department of Material Science and Engineering, Sungkyunkwan University, 3Thin Film Materials Research Group, Korea Research Institute of Chemical
TP1-53	17:10-18:30	Positive Bias Illumination Stress Instability in Solution Processed a-IGZO TFTs Jongsu Oh, Ji-Hwan Kim, Eung-Kyu Park, Sihan Wang, and Yong-Sang Kim School of Electronic and Electrical Engineering, Sungkyunkwan University
TP1-54	17:10-18:30	Growth of Semiconducting TaN _x Films by Atomic Layer Deposition and Its Electrical Transport Sung Yeon Ryu, Dong Ha Kim, and Byung Joon Choi Department of Materials Science and Engineering, Seoul National University of Science and Technology

TP1-55	17:10-18:30	Comparative Study of AlN Films Grown by Thermal and Plasma- assisted Atomic Layer Deposition No Ho Lee, Min Soo Kim, Seong Yu Yoon, Dae Ho Kim, and Byung Joon Choi Department of Materials Science and Engineering, Seoul National University of Science and Technology
TP1-56	17:10-18:30	Electrical Property Enhancement of p-type SnO Thin Film Transistor with Al Doping An Hoang-Thuy Nguyen ¹ , Manh-Cuong Nguyen ¹ , Hyunjoon Bang ¹ , Donghwi Lee1, Sol Kang ¹ , Jae-Won Choi ¹ , Soo-Yeun Han ¹ , Hoichang Yang ² , and Rino Choi ¹ ¹ Department of Material Science and Engineering, Inha University, ² Department of Applied Organic Materials Engineering, Inha University
TP1-57	17:10-18:30	Photo-response Characteristics in Polysilicon-Based MSM Photodetector Kyeong-Min Kim and Jae-Sung Lee Division of Green Energy Engineering, Uiduk University
TP1-58	17:10-18:30	이중 주파수 펄스 CCP에서의 임피던스 변화 배인식, 장홍영, 설유빈, 이진원, 송호현, 이호형, 박기정 대한민국 한국과학기술원 물리학과
TP1-59	17:10-18:30	EUV용 펠리클 대안구조로서 그래핀 복합구조 가능성 연구 김정환 ¹ , 홍성철 ¹ , 조한구 ² , 안진호 ¹ ¹ 한양대학교 신소재공학과, ² 한양대학교 나노과학기술연구소
TP1-60	17:10-18:30	고투과도 SiNx EUV용 펠리클 제작을 위한 HF Thinning 공정 가능성 평가 김지은 ¹ , 김정환 ² , 홍성철 ² , 조한구 ³ , 안진호 ^{1,2} ¹ 한양대학교 나노융합과학과, ² 한양대학교 신소재공학과, ³ 한양대학교 나노과학기술연구소
TP1-61	17:10-18:30	High-k Thin Films on Graphene Surface Using Atomic Layer Deposition Yong Hyun Park and Sang Woon Lee Department of Physics and Division of Energy Systems Research, Ajou University
TP1-62	17:10-18:30	Silicon Nitride Deposition by VHF (162 MHz)-PECVD Using a Multi Push-Pull Source Kiseok Kim ¹ , Kihyun Kim ¹ , Kyongnam Kim ¹ , and Geunyoung Yeom ^{1,2} ¹ Department of Advanced Materials Science and Engineering, Sungkyunkwan University, ² Sungkyunkwan Advanced Institute of Nano Technology, Sungkyunkwan University
TP1-63	17:10-18:30	Electrical Properties of Sputter-deposited InGaZnO Thin Film Transistors with An Etch Stopper Jin Kuk Kim ¹ , Seong Min Shin ¹ , Min Taek Hong ¹ , Byeong Seong Bae ¹ , and Eui-Jung Yun ²

		¹ Department of Display Engineering, Hoseo University, ² Department of Information and Communication Engineering, Hoseo University
TP1-64	17:10-18:30	Novel Fabrication of Lightly Doped-Drain for Suppressing The Leakage Current in Polycrystalline Silicon Thin-Film Transistor Hyung Yoon Kim, Jae Hyo Park, Ki Hwan Seok, Zohreh Kiaee, Hee Jae Chae, Sol Kyu Lee, Yong Hee Lee, and Seung Ki Joo Research Institute of Advanced Materials and Department of Materials Science and Engineering, Seoul National University
TP1-65	17:10-18:30	Electrical Properties Enhancement with Multi-Gate Structure Metal Induced Lateral Crystallization Poly-Si TFTs. Ki Hwan Seok, Jae Hyo Park, Yong Hee Lee, and Seung Ki Joo Department of Materials Science and Engineering, Seoul National University
TP1-66	17:10-18:30	Characteristics of IGZO Thin Film Using ICP Assisted Magnetron Sputtering Chul Hee Lee ¹ , Seung Min Lee ¹ , Tae Hyung Kim ¹ , Kyong Nam Kim ¹ , Jeong Oun Bae ¹ , and Geum Young Yeom ^{1,2} ¹ Department of Advanced Materials Science and Engineering, Sungkyunkwan University, ² Sungkyunkwan Advanced Institute of Nano Technology, Sungkyunkwan University
TP1-67	17:10-18:30	Plasma Enhanced Atomic Layer Deposition of High-Mobility In ₂ O ₃ Thin Films from Novel Heteroleptic Indium Precursor 김효연 ^{1,2} , 정은애 ^{1,3} , 박진성 ² , 전동주 ¹ , 문금비 ⁴ , 박상희 ⁴ , 정택모 ¹ , 한정환 ¹ ¹ 한국화학연구원, ² 한양대학교 신소재공학부, ³ 성균관대학교 화학과, ⁴ 한국과학기술원 신소재공학과
TP1-68	17:10-18:30	Low Temperature Atomic Layer Deposition of SnO ₂ Thin Films from Novel Sn Precursor and O ₂ Plasma 김효연 ^{1,2} , 남지현 ^{1,3} , 박진성 ² , 전동주 ¹ , 정택모 ¹ , 한정환 ¹ ¹ 한국화학연구원, ² 한양대학교 신소재공학부, ³ 고려대학교 화학과
TP1-69	17:10-18:30	Deposition of Silicon Oxide Using High Density Plasma Chemical Vapor Deposition for Gap-Filling Sin Keun Park ¹ , Chang-Su Seo ¹ , Sang-Yeop Jee ¹ , Yun-Bin Kim ¹ , Suk-Jin Jung ¹ , Jong-Seung Park ¹ , Kang Hyun Noh ² , Jang Hyun Kim ¹ , Jong Ho Lee ¹ , and Cheol Seong Hwang ¹ *Inter-University Semiconductor Research Center, Seoul National University, ² Semi-ence
TP1-70	17:10-18:30	Fast and Slow Charging of InGaZnO Thin Film Transistor with Metal Cation Concentration Minho An, Kyeonggeun Park, Taeho Kim, and Sanghun Jeon Department of Applied Physics, Korea University
TP1-71	17:10-18:30	The Specific Contact Resistance of Interfaces ITZO and The Source/Drain Metallization Effects Jaewoong-Yoon and Junsin-Yi

		SungKyunKwan University
TP1-72	17:10-18:30	Mechanical and Thermal Stability of Organic/Inorganic Hybrid Gate Insulators with Self Assembled Nanoparticles for Flexible Thin Film Transistors J. H. Kim ¹ , J. S. Kim ² , D. I. Kim ² , and NE. Lee ¹ , ^{2,3} ¹ Department of Advanced Materials Science and Engineering, Sungkyunkwan University, ² Sungkyunkwan Advanced Institute of Nanotechnology, Sungkyunkwan University, ³ Samsung Advanced Institute for Health Sciences and Technology, Sungkyunkwan University
TP1-73	17:10-18:30	A Flexible Magnetoelectric Field-effect Transistor with Magnetically Responsive Nanohybrid Gate Dielectric Layer Nguyen Minh Triet ¹ , Tran Quang Trung ¹ , Nguyen Thi Dieu Hien ¹ , Saqib Siddiqui ¹ , Do-Il Kim ¹ , and Nae-Eung Lee ¹ , ^{2,3} ¹ School of Advanced Materials Science and Engineering, Sungkyunkwan University, ² Sungkyunkwan Advanced Institute of Nanotechnology, Sungkyunkwan University, ³ Samsung Advanced Institute for Health Sciences and Technology, Sungkyunkwan University
TP1-74	17:10-18:30	Comparison of Performance of Tips Pentacene Based Transistor with Various Insulators Seunghyun Park ¹ , Wooseong Yang ¹ , Dong-Hoon Lee ² , and Yong-Sang Kim ² ¹ Gyeonggi Science High School, ² School of Electronic and Electrical Engineering, Sungkyunkwan University
TP1-75	17:10-18:30	Characterization of GeSn Deposited on Si by Low-temperature Sputter Epitaxy Jeongmin Lee ¹ , Mina Yun ² , and Seongjae Cho ^{1,2} ¹ Graduate School of IT Convergence Engineering, Gachon University, ² Department of Electronic Engineering, Gachon University
TP1-76	17:10-18:30	'Atomistic' Line Edge Roughness (LER) Model for Sub-10-nm CMOS Device Design: Three-Dimensional LER Profiling Sangheon Oh, Jaesung Jo, Hyunjae Lee, Youngtaek Lee, and Changwhan Shin School of Electrical and Computer Engineering, University of Seoul
TP1-77	17:10-18:30	Investigation of Current Path Variation Effect in Three Dimensional Stack NAND Flash Memory Daewoong Kang ¹ , Hyoungsoo Kim ² , Asif Ali ³ , Youngchang Yun ⁴ , and Il Hwan Cho ³ ¹ Department of Electrical Engineering, University of North Texas, USA, ² Department of Electrical and Computer Engineering, California State Polytechnics University, USA, ³ Department of Electronic Engineering, Myongji University, ⁴ Qualcomm Technologies, US
TP1-78	17:10-18:30	The Improvement of Inverse Narrow Width Effect by Optimizing STI Process

		Seungyong Sung, Sungyeon Hwang, Taeho Lee, Jaegwan Kim, Sunggon Choi, and Inwook Cho System IC Platform Technology Development, SK hynix Inc.
TP1-79	17:10-18:30	Steep Subthreshold Swing Operation of Bendable Feedback Field- Effect Transistors with Si Nanowires Youngin Jeon, Minsuk Kim, Doohyeok Lim, and Sangsig Kim Department of Electrical Engineering, Korea University
TP1-80	17:10-18:30	Easy and Cost-effective Integration of Negative Capacitance for Low Power MOSFET HoSeung Jeon and Wan-Gyu Lee Advanced Process Development, National NanoFab Center
TP1-81	17:10-18:30	Impact of Metal Nitride on Contact Resistance in Metal-Interlayer-Semiconductor Source/Drain Juhan Ahn and Hyun-Yong Yu Department of Electrical Engineering, Korea University
TP1-82	17:10-18:30	Capacitance-Voltage Analysis of Al ₂ O ₃ /In _{0.53} Ga _{0.47} As Metal-Oxide-Semiconductor Structure Woo Chul Lee ¹ , Cho Cheol Jin ¹ , Jung Joon Pyeon ¹ , Cheol Seong Hwang ² , and Seong Keun Kim ¹ ¹ Center for Electronic Materials, Korea Institute of Science and Technology, ² Department of Materials Science, Engineering and Inter-University Semiconductor Research Center, Seoul National University
TP1-83	17:10-18:30	Tunnel FET의 고유한 열화메커니즘에 관한 연구 김승모, 정욱진, 임성관, 강수철, 이병훈 <i>Center for Emerging Electric Devices and Systems, School of Material</i> <i>Science and Engineering, Gwangju Institute of Science and Technology</i>
TP1-84	17:10-18:30	고전력 고효율 SIMO 직류 변환기의 스위치 on 저항 최적화 김재윤 연세대학교 전기전자공학부
TP1-85	17:10-18:30	FinFET LNA Design using Accurate Device RC Parasitic Models Seung Ik Jeong and So Young Kim College of Information and Communication Engineering, Sungkyunkwan University
TP1-86	17:10-18:30	Achieving Telecommunication Frequency Emission from Ge on Si by Thermal Annealing Chulwon Lee ¹ , Bugeun Ki ² , Yang-Seok Yoo ¹ , Min-Ho Jang ¹ , Seung-Hyuk Lim ¹ , Jungwoo Oh ² , and Yong-Hoon Cho ¹ ¹ Department of Physics and KI for the NanoCentury, KAIST, ² School of Integrated Technology, Yonsei University
TP1-87	17:10-18:30	The Study on Dopant Activation and Physical Properties in Si1-xGex Layers with Excimer Laser Annealing Youngmo Kim, Sungyeol Yoon, Jiwoo Park, Juyoung Jeong, and

		Hyunchul Sohn Department of Materials Science and Engineering, Yonsei University
TP1-88	17:10-18:30	Thermal Effect Modeling of Fin Field Effect Transistors 장문용, 김소영 <i>성균관대학교 정보통신공학부</i>
TP1-89	17:10-18:30	3차원 시뮬레이션을 이용한 FinFET과 Planar FET의 양전압 온도 불안 정성 특성 비교 분석 서영수, 김현수, 김종수, 신형철 Inter-University Semiconductor Research Center and School of Electrical Engineering and Computer Science, Seoul National University
TP1-90	17:10-18:30	3D TCAD를 이용한 4층의 Nanowire-FET에서의 Sheet 저항 추출 방법 고형우, 서영수, 김현수, 김종수, 신형철 Inter-University Semiconductor Research Center and School of Electrical Engineering and Computer Science, Seoul National University
TP1-91	17:10-18:30	AC NBΠ Modeling for Circuit Simulation 이영곤, 조원구, 최병길, 박흥식, 김미란, 장태영, 이창렬, 이석규 Device Modeling and Reliability Division, SK hynix Inc.
TP1-92	17:10-18:30	NBTI Turn-around 현상 메커니즘 분석 및 열화 모델링 장태영, 박흥식, 이정현, 최형규, 이영곤, 유승원, 이창렬, 이석규 SK 하이닉스, 미래기술연구원, DMR팀
TP1-93	17:10-18:30	A Guideline for Electron Mobility Enhancement in Uniaxially- strained (100)/<100> and (110)/<110> FinFETs Sujin Choi, Wookyung Sun, and Hyungsoon Shin Department of Electronics Engineering, Ewha Womans University
TP1-94	17:10-18:30	Effect of Different Insulating Materials and Channel Materials on The Ratio of TAT Current in DRAM Cell Transistors ¹ Hye Ran Jang, ² Sung-Won Yoo, ² Sangbin Jeon, ³ Joonha Shin, ⁴ Changhwan Shin, and ² Hyungcheol Shin ¹ School of Physics Education, Seoul National University, ² Inter University, Semiconductor Research Center and School of Electrical Engineering and Computer Science, Seoul National University, ³ Seoul Science High School, ⁴ School of Electrical and Computer Engineering, University of Seoul
TP1-95	17:10-18:30	Evaluation of Pixel-to-Pixel Isolation at CMOS Image Sensor by using Electrical X-talk Simulation Hyungjoon Shim ¹ , Kwang Hwangbo ² , Sun-ha Hwang ² , Sungbo Hwang ² , Sang-Yong Kim ¹ , Seokkiu Lee ¹ , and Inwook Cho ² ¹ Device Modeling and Reliability Division, SK hynix Inc., ² System IC Platform Technology Development, SK hynix Inc.
TP1-96	17:10-18:30	In Depth Study of Quasi-static Latch-up Phenomenon Through Geometric Effect and Optimization for High Speed I/O

		Chang Hwi Lee, Joungcheul Choi, and Hongwook Lim SK hynix Inc.
TP1-97	17:10-18:30	Impact of Gate Shape and Thickness in 3D Vertical-gate NAND Flash Dasom Lee, Eunmee Kwon, and MinsooKim SK hynix Inc.
TP1-98	17:10-18:30	Analysis of EEPROM Characteristics on Tunneling Gate Doping Structure Hyangeun Lee, Kwangil Choi, Namyoon Kim, Sunggon Choi, and Inwook Cho Development of System IC Platform Technology, SK hynix Inc.
TP1-99	17:10-18:30	2차원 Paricle-in-cell 방법을 이용한 반도체 제조용 마그네트론 스퍼터링의 전산모사 허민영, 이정열, 배효원, 이해준 부산대학교 전자전기컴퓨터공학과
TP1-100	17:10-18:30	Self-heating Effect-induced Mobility Degradation in Various Structure Parameters of FinFET Taegyeom Ha, Yeon Namkoong, and Yunheub Song Department of Electronics and Computer Engineering, Hanyang University
TP1-101	17:10-18:30	Optimiztion of FinFET Structure for Low-standby Power(LSTP) Application in 14nm and Beyond Generation Taehee Kin and Gina Jeong Department of Electronic Engineering, Ajou University
TP1-103	17:10-18:30	First-principles Study on Charge Trap Level in Amorphous Si ₃ N ₄ Gijae Kang, Wonseok Jeong, and Seungwu Han Department of Materials Science and Engineering, Seoul National University
TP1-104	17:10-18:30	Study of Measurement Method to Judge Subthreshold Hump of MOSFET Sun-Ho Oh, Sung-Gon Choi, Seung-Yun Hwang, Min-ki Na, Kwang-Duk Kim, Sung-Bo Hwang, and In-Wook Cho System IC Platform Technology Development Team, SK hynix Inc.
TP1-105	17:10-18:30	New Robust Schottky Barrier Diodes of Advanced BCD Technology for Integrated Circuits Applications Yon-Sup Pang, Hyunchul Kim, Leeyeun Hwang, Sung-Bum Park, Jung Lee, and Taejong Lee Technology Development Center, MagnaChip Semiconductor
TP1-106	17:10-18:30	Gate Charge Measurement를 통한 Gate Capacitance Modeling Sunggon Cho, Pilsoo Lee, Dongjae Lee, and Seokki Lee Device Modeling and Reliability Team, SK hynix Inc.

TP1-107	17:10-18:30	FinFET의 Bipolar AC Stress에 의한 Reliability 특성 강수철, 김용훈, 정욱진, 박우진, 김승모, 이병훈 Center for Emerging Electric Devices and Systems, School of Material Science and Engineering, Gwangju Institute of Science and Technology
TP1-108	17:10-18:30	Simulation Study of Double-Gate Tunnel Dielectric-based Tunnel FET Sangchun Park, Junbeom Seo, Woo Jin Jeong, and Mincheol Shin School of Electrical Engineering, KAIST
TP1-109	17:10-18:30	Junction Temperature Control Method for Accelerated Power Cycling Life Test of Power Semiconductor 최성순, 이우영, 노성대, 이관훈 전자부품연구원 신뢰성연구센터
TP1-110	17:10-18:30	Modeling of the Polysilicon Channel Process of Vertical NAND Flash Memory using Phase-field Method Jong-Hyuk Lee and Yongwoo Kwon Department of Materials Science and Engineering, Hongik University
TP1-111	17:10-18:30	The Study for A Hybrid Simulation with Ar/O ₂ Gas in A Capacitively Coupled Plasmas Jin Seok Kim, Ho young Kim, Ho-Jun Lee, and Hae June Lee Department of Electrical Computer Engineering, Pusan National University
TP1-112	17:10-18:30	Defect Density Analysis of HfInZnO Thin Film Transistor Youngin Goh, Hyunsuk Woo, Minho Ahn, Taeho Kim, and Sanghun Jeon Department of Applied Physics, Korea University
TP1-113	17:10-18:30	Fade Detection Through The Luminance Transition Neighboring Monochromatic Frame Sangho Yoon and Young Hwan Kim Department of Electrical Engineering, Pohang University of Science and Technology
TP1-114	17:10-18:30	The Capacitor-Less Type LED Lighting with A CdS Cell Sang-Won Lee, Hye-Jung Jang, Jung-Kyu Lee, Jin-Kyo Jung, Byung-Tak Jang, and Choong-Mo Nam Department of Electronics Engineering, Korea Polytechnic University
TP1-115	17:10-18:30	The Characteristics of Transparent FPCB for a LED Display So-Young Baek, Seong-Hwa Lee, Tae-Hoon Lee, Byung-Tak Jang, and Choong-Mo Nam Department of Electronics Engineering, Korea Polytechnic University
TP1-116	17:10-18:30	Self-selective Coating by Surface Energy Difference for Direct Patterning Mu Kyeom Mun ¹ , Do San Kim ¹ , and Geun Young Yeom ^{1,2} ¹ Department of Materials Science and Engineering, Sungkyunkwan

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		University, ² Sungkyunkwan Advanced Institute of Nano Technology, Sungkyunkwan University
TP1-117	17:10-18:30	Multiple Annealing Temperature Dependency on Reliability of Multilayer MoS ₂ Field Effect Transistors Jae Hyeon Ryu, Geun Woo Baek, Gi Taek Yu, Hyeun Woo Kim, and Sung Hun Jin Department of Electronic Engineering, Incheon National University
TP1-118	17:10-18:30	Amorphous Metal-based High Sensitive Pressure Sensor for Robot-skin Minhyun Jung ¹ , Taeho Kim ¹ , Kyungkwan Kim ² , and Sanghun Jeon ^{1,2} ¹ Department of Applied Physics, Korea University, ² Department of Display and Semiconductor Physics, Korea University
TP1-119	17:10-18:30	Analysis and Modeling on the PH-dependent Current Drift of Si Nanowire Ion-sensitive Field Effect Transistor (ISFET)-based Biosensors Jungkyu Jang ¹ , Jungmok Kim ¹ , Hyun-Sun Mo ¹ , Jung Han Lee ² , Byung-Gook Park ² , Sung-Jin Choi ¹ , Dong Myung Kim ¹ , Dae Hwan Kim ^{1,2} , and Jisun Park ¹ **School of Electrical Engineering, Kookmin University, **Inter-University Semiconductor Research Center, Seoul National University
TP1-120	17:10-18:30	A New Sacrificial Method using Polyimide and Copper H. Cheon ¹ , S. Hong ¹ , M. Lee ¹ , Y. Park ¹ , T. Kim ² , and D. Cho ¹ ¹ Automation and Systems Research Institute/Inter-University Semiconductor Research Center, Department of Electrical and Computer Engineering, Seoul National University, ² Quantum Technology Lab, SK Telecom Co., Ltd.
TP1-121	17:10-18:30	The Development of the Atmospheric Pressure Micro Plasma-jet Nozzle using SOG(Silicon on Glass) Wafer for Surface Modification Tae Gyu Park ^{1,2} , Gwang Gyu Park ² , Geunyoung Kim ² , Ok Chan Jeong ³ , and Dong-Chul Han ^{1,2} ¹ Korea Bio-IT Foundry Center, Institute of Advanced Machines and Design, Seoul National University, ² AMED Inc., ³ Biomedical Engineering , Inje University
TP1-122	17:10-18:30	The Surface Hydrophilic Modification of Contact Lens by Atomospheric Pressure Plamsa Treatment Tae Gyu Park ^{1,2} , Gwang Gyu Park ² , Geunyoung Kim ² , Ok Chan Jeong ³ , and Dong-Chul Han ^{1,2} ¹ Korea Bio-IT Foundry Center, Institute of Advanced Machines and Design, Seoul National University, ² AMED Inc., ³ Inje University Biomedical Engineering
TP1-123	17:10-18:30	P-type Diffusion Process using Diethyl Zinc for High Sensitivity Infra-red Photodiodes Dong-Hwan Jun ¹ , Hae Yong Jeong ¹ , Youngjo Kim ¹ , Chan-Soo Shin ¹ , Kuungho Park ¹ , Won Kuu Park ¹ , Min Su Kim ³ , Sangin Kim ² , Sang Wook

Kyungho Park¹, Won-Kyu Park¹, Min-Su Kim³, Sangin Kim², Sang Wook

		Han ³ , and Sung Moon ³ ¹ Korea Advanced Nano-Fab Center, ² Ajou University, ³ Korea Institute of Science and Technology
TP1-124	17:10-18:30	Development of Self-stabilizing System for Quantum Key Distribution Network 박병권, 이민수, 우민기, 김용수, 한상욱, 문성욱 Center for Quantum Information, Korea Institute of Science and Technology
TP1-125	17:10-18:30	Scanning-time Optimization Based on Simulated Annealing for Confocal Microscopy Hyunjun Kim ^{1,2} , Jiwon Yune ¹ , Sang-Wook Han ¹ , and Sung Moon ¹ ¹ Center for Quantum Information, Korea Institute of Science and Technology, ² Department of Electrical and Computer Engineering, Ajou University
TP1-126	17:10-18:30	Design of Safe and Miniaturized Photo-Diode Based Retinal Implant Jeong Hoan Park, Joonsoo Jeong, Sin Young Shim, and Sung June Kim Department of Electrical and Computer Engineering, Seoul National University
TP1-127	17:10-18:30	CMOS Image Sensor with Pixel-merged Pseudo Differential Comparator and Up-down DDR Counter Chanmin Park, Injun Park, Woojin Jo, and Youngcheol Chae School of Electrical and Electronic Engineering, Yonsei University
TP1-128	17:10-18:30	A 6.9-mW, 600-MHz Continuous-Time Sigma-delta Modulator with 20-MHz Signal Bandwidth and 73.1-dB SNDR Je-Kwang Cho, Sunsik Woo, Wooyol Lee, and Hyeong-Soo Lee <i>IP Technology Team, SIC Center, LG Electronics Inc.</i>
TP1-129	17:10-18:30	A Low-power FeedForward Continuous-time Sigma-delta Modulator without Direct Feedback DAC and Analog Summing Amplifier Je-Kwang Cho, Sunsik Woo, Wooyol Lee, and Hyeong-Soo Lee IP Technology Team, SIC Center, LG Electronics Inc.
TP1-130	17:10-18:30	A 1.5-V 2.9-mW Analog Frond End with a 5-Bit PGA and a 10-Bit ADC for D-TV Analog Audio Demodulation Je-Kwang Cho, Jungsuk Shim, Wooyol Lee, and Hyeong-Soo Lee IP Technology Team, SIC Center, LG Electronics Inc.
TP1-131	17:10-18:30	Verilog Modeling of 10Gbps Half-Rate Clock and Data Recovery using Injection Locking Oscillator. Min-Seong Choo and Deog-Kyoon Jeong Inter-University Semiconductor Research Center, Seoul National University
TP1-132	17:10-18:30	High Voltage Input DC-DC Buck Converter using 1 and 2 MHz

		PWM Control and Zero Current Detector for Wireless Power Transfer Ju-Hyun Park, Joo Young Lee, Young Jun Park, and Kang-Yoon Lee College of Information and Communication Engineering, Sungkyunkwan University
TP1-133	17:10-18:30	DLL의 지터량에 따른 클락의 기준점 조절회로 Sung-Woo Yoon, Xuefan Jin, and Kee-Won Kwon College of Information and Communication Engineering, Sungkyunkwan University
TP1-134	17:10-18:30	LVDS Clock Driver with High Precision and Improved Bandwidth Jahoon Jin and Jung-Hoon Chun College of Information and Communication Engineering, Sungkyunkwan University
TP1-135	17:10-18:30	Design of a Low Noise PLL using Injection Locked Oscillator Han-Gon Ko and Deog-Kyoon Jeong Department of Electrical and Computer Engineering, Seoul National University
TP1-136	17:10-18:30	유무선 인터페이스를 위한 기준 클록을 사용하지 않는 클록 데이터 복원 Hyunkyu Choi, Kiwon Kwon, Jahoon Jin, and Jung-Hoon Chun College of Information and Communication Engineering, Sungkyunkwan University
TP1-137	17:10-18:30	The Design of 4-bit Flash ADC with Discrete Components Jonghyun Oh and Deog-Kyoon Jeong Department of Electrical and Computer Engineering, Seoul National University
TP1-138	17:10-18:30	온도 보상 특성을 가지는 전압 조절 발진기 Xuefan Jin, Jung-Hoon Chun, and Kee-Won Kwon College of Information and Communication Engineering, Sungkyunkwan University
TP1-139	17:10-18:30	A Noninverting Two-Switch Buck-Boost DC-DC Converter for Portable Applications Yoonjae Kim, Jongseok Bae, Sooho Cho, Sungjae Oh, Hyunjun Kim, and Youngoo Yang School of Electronic and Electrical Engineering, Sungkyunkwan University
TP1-140	17:10-18:30	Dynamic Supply Switching Modulator for Power Amplifier Using Single Inductor Dual Output DC-DC Buck Converter Sungjae Oh, Jongseok Bae, Yoonjae Kim, Sooho Cho, and Youngoo Yang School of Electronic and Electrical Engineering, Sungkyunkwan University

TP1-141	17:10-18:30	Design of Band Gap Reference for Minimization of The Temperature Coefficient Hyunjun Kim, Sooho Cho, Jongseok Bae, Yoonjae Kim, and Youngoo Yang School of Electronic and Electrical Engineering, Sungkyunkwan University
TP1-142	17:10-18:30	Design of AC Directed Driving IC with PFC Function Kilsoo Seo and Jonghyun Kim Power Semiconductor Research Center, Korea Electrotechnology Research Institute
TP1-143	17:10-18:30	Design of Delay Locked Loop with Duty Cycle Correction Chang Soo Yoon and Deog-Kyoon Jeong Department of Electrical and Computer Engineering, Seoul National University
TP1-144	17:10-18:30	A Design of Low-Noise Switched-Capacitor Amplifier with Dynamic Offset Cancellation Min Chan Kim, Sang-Yun Kim, and Kang-Yoon Lee College of Information and Communication Engineering, Sungkyunkwan University
TP1-145	17:10-18:30	Single-Inductor Multiple-Output (SIMO) Switching Converter with Constant Time Control using Hysteresis Comparators Jimin Oh, Jung-Hee Suk, Sangkyun Lee, and Yilsuk Yang Information and Communications Core Technology Research Laboratory, Electronics and Telecommunications Research Institute
TP1-146	17:10-18:30	Digital Eye Shaping for Reliability in a Blind Baud-rate ADC-Based Receiver Jong-Moon Choi, Ho-Joon Kim, and Kee-Won Kwon College of Information and Communication Engineering, Sungkyunkwan University
TP1-147	17:10-18:30	A Design of Automatic Current Limit Low Drop Out Regulator with Wide Input Range and Fast Settling Time for Wireless Power Transfer Application Jung-Yeon Kim, Young-Jun Park, and Kang-Yoon Lee College of Information and Communication Engineering, Sungkyunkwan University
TP1-148	17:10-18:30	A 2.6 GHz Fully Integrated GaN-HEMT Doherty Power Amplifier Based on Compact Load Network for Small-Cell Base Stations Hwiseob Lee, Wonseob Lim, and Youngoo Yang School of Electronic and Electrical Engineering, Sungkyunkwan University
TP1-149	17:10-18:30	2.4 GHz Fully Integrated CMOS Power Amplifier using a 0.18 μm Process for WLAN Applications Wonseob Lim, Hwiseob Lee, Jongseok Bae, Sooho Cho, and Youngoo

		Yang School of Electronic and Electrical Engineering, Sungkyunkwan University
TP1-150	17:10-18:30	Pre-Matched Two-Stage Doherty Power Amplifier Using GaN-HEMT Device for X-Band Applications Wooseok Lee, Hwiseob Lee, Wonseob Lim, Hyunuk Kang, Seungkuk Park, and Youngoo Yang School of Electronic and Electrical Engineering, Sungkyunkwan University
TP1-151	17:10-18:30	Design of Two-Stage HBT Doherty Power Amplifier for Handset Applications Hyunuk Kang, Hwiseob Lee, Wooseok Lee, and Youngoo Yang School of Electronic and Electrical Engineering, Sungkyunkwan University
TP1-152	17:10-18:30	A Design of 1.2 mW High-Speed Programmable Frequency Divider for a 30 GHz Frequency Synthesizer Ho-Cheol Ryu, Dong-Soo Lee, Sung-Jin Kim, and Kang-Yoon Lee College of information and Communication Engineering, Sungkyunkwan University
TP1-153	17:10-18:30	A PFD and Charge Pump Switching Circuit to Low Reference Spur of the PLL in 0.18 µm CMOS Sung Jin Kim, Hyeon-Uk Bhin, Dong-Soo Lee, and Kang-Yoon Lee College of information and Communication Engineering, Sungkyunkwan University
TP1-154	17:10-18:30	A 8 Bit, Temperature-Independent Current-Steering DAC with 10 V Output Swing Moon-Chul Choi, Hyun-Chang Kim, and Deog-Kyoon Jeong Department of Electrical and Computer Engineering, Seoul National University
TP1-155	17:10-18:30	Auto Dual-axis Adjustable Lights with a Single-chip Tracking Sensor Yong Hwan Park, Jeong Seok Kim, and Yong Sin Kim Electrical Engineering, Korea University
TP1-156	17:10-18:30	A Current Sensing Completion Detection Circuit Utilizing Body Effect Jiheon Park, Young-Ha Hwang, and Deog-kyoon Jeong Department of Electrical and Computer Engineering, Seoul National University
TP1-157	17:10-18:30	An 8-Bit 20 GHz DCO with Divided-by-5 Injection-Locked Frequency Divider Jung Min Yoon, Chang-Soo Yoon, and Deog-Kyoon Jeong Department of Electrical and Computer Engineering, Seoul National University

TP1-158	17:10-18:30	Throughput을 최대화하는 MAC 프로토콜을 위한 Fragmentation과 Aggregation 제안 구은비, 강병철, 정철호, 이혁연, 김재석 <i>연세대학교 전기전자공학과</i>
TP1-159	17:10-18:30	이중 채널 송신기가 포함된 CMOS 이미지 센서 시스템 김상훈, 엄부용, 김종률, 전정훈 College of Information and Communication Engineering, Sungkyunkwan University
TP1-160	17:10-18:30	비 접촉 측정/검사를 위한 영상 매칭 시스템 Yunseok Jang, Junwon Mun, Jaehyuk So, Baatarbek Ryskhan, and Jaeseok Kim Department of Electrical and Electronic Engineering, Yonsei University
TP1-161	17:10-18:30	Real-Time Hardware Implementation of Noise-Robust Auditory Evoked Potential Extraction Algorithm Wooseok Byun and Ji-Hoon Kim Department of Electronics Engineering, Chungnam National University
TP1-162	17:10-18:30	Monte Carlo Simulation of Basic Models for Quantitative Analysis of Scanning Electron Microscope Images Myeong Chun Song and Jin Seung Kim Department of Nano-Science and Technology, Chonbuk National University
TP1-163	17:10-18:30	e-Beam Simulation for Deep Trench Monitoring Solution Development Changhwan Lee, Gwangmin Kwon, Youngsoon Yoo, Jongtae Kim, Yeojin Yoon, and Jinsan Yoo SK hynix Inc.
TP1-164	17:10-18:30	An Efficient Test Circuit for Defect Monitoring of Standard Logic Cells 오길근, 신연중, 호민혜, 김영현, 정다래, 김형태, 이윤우, 김요정 Samsung Electronics Co., Ltd.
TP1-165	17:10-18:30	Mechanical Characterization of Silver Nanowire on Silicon Pillar by Using in-situ Pico Indentation Jaehyun Kim ^{1,2} , Changhwan Lee ¹ , Hyungwon Yoo ¹ , Yeojin Yoon ¹ , Jinsan Yoo ¹ , Jooyoung Jung ² , Qauser Naddem ² , and Seungmin Han ² 1 SK hynix Inc., 2KAIST
TP1-166	17:10-18:30	Damascene공정에서의 광학 검사 장비의 검출력 향상 방법 연구 권혁만, 문대영, 송인영, 오재형 <i>SK hynix Inc.</i>
TP1-167	17:10-18:30	DRAM Storage Node Profile 개선을 위한 OCD 계측 기술 연구 허성준, 윤원식, 신현철, 박동성 SK hynix Inc.

TP1-168	17:10-18:30	Dielectric Film Thickness Monitoring Technique in 3D Flash Memory Device YongWoo Jung SK hynix Inc.
TP1-169	17:10-18:30	SEM Imaging of High Aspect Ratio Structure BottomThrough Effects of Landing Energy and Energy Filter Gwangmin Kwon, Jaecheol Jo, Ohjang Kwon, Gwirang Kim, and Kyuchan Shim SK hynix Inc.
TP1-170	17:10-18:30	SEM 이미지 Hot Spot Monitoring을 위한 Pixel 기반 검사 방법 권오장, 권광민, 조재철, 김귀랑, 마성민, 심규찬 SK hynix Inc.
TP1-171	17:10-18:30	Morphology and Structure Analysis of Graphene by Low Voltage TEM Technique Youngji Cho ^{1,3} , Jun-Mo Yang ¹ , Do Van Lam ² , Seung-Mo Lee ² , Jae-Hyun Kim ² , and Jiho Chang ³ ¹ Department of Measurement and Analysis, National Nanofab Center, ² Nano-Mechanical Systems Research Division, Korea Institute of Machinery and Materials, ³ Department of Applied Science, Korea Maritime and Ocean University
TP1-172	17:10-18:30	Wafer Geometry 측정 기술을 이용한 Defocus 개선 연구 Sangmin Kim, Keunjae Jeong, and Kyuchan Shim SK hynix Inc.
TP1-173	17:10-18:30	A Study on Through-focus Scanning Optical Microscopy (TSOM) using Wavefornt Sensor Dong Joo Park, Joon Hyeong Park, and Jun Ho Lee Department of Optical Engineering, Kongju National University
TP1-174	17:10-18:30	Strain Measurement in SiGe/Si Layer by Dark-field Electron Holography with Medium High-resolution Magnification Van Vuong Hoang ^{1,3} , YoungJi Cho ¹ , Jung Ho Yoo ¹ , Yong Ho Choi ² , Soon-Ku Hong ³ , and Jun-Mo Yang ¹ ¹ Department of Measurement and Analysis, National Nanofab Center, ² Department of Aero-Materials Engineering, Jungwon University, ³ Department of Materials Science and Engineering, Chungnam National University
TP1-175	17:10-18:30	2Xnm 급 반도체 웨이퍼 결함검출을 위한 Ultra Hi-NA 광학시스템 설계 Woojun Han ¹ , Eunkil Jo ¹ , Seonho Lee ¹ , Jiyoung Oh ¹ , Jinhwan Kim ¹ , Seungyoung Chu ² , and Jaisoon Kim ¹ , ¹ NEMO Laboratory Department of Physics, Myongji University, ² AUROS Technology
TP1-176	17:10-18:30	ESLI 시스템 검증을 위한 XXnm 검사용 UV 라인 스캐닝 시스템 개발

		Eunkil Jo ¹ , Seonho Lee ¹ , Oh-hyung Kwon ¹ , Sangchul Lee ¹ , Seongchul Oh ² , Seungyong Chu ² , and Jaisoon Kim ¹ ¹ NEMO Laboratory, Department of physics, Myongji University ² AUROS Technology
TP1-177	17:10-18:30	TSV Group Architecture for Repair 3D IC Ingeol Lee, Minho Cheong, Jaeseok Park, and Sungho Kang Department of Electrical and Electronic, Yonsei University
TP1-178	17:10-18:30	CI-기를 포함된 SiNx 공정의 인시츄 클린 조건 최적화 및 잔류 불순물 제어 KwangSeon Jin, ByungChul Cho, DongHo Ryu, and HyoungChan Ha Research and Development team, WONIK IPS.Co., Ltd.
TP1-179	17:10-18:30	EUV 마스크 검사용 Ptychography 알고리즘 개발 우동곤 ¹ , 이승민 ¹ , 홍성철 ¹ , 조훈 ² , 김회율 ² , 조한구 ³ , 안진호 ¹ ¹ 한양대학교 신소재공학과, ² 한양대학교 전자컴퓨터통신 공학과, ³ 한양대 학교 나노과학기술연구소
TP1-180	17:10-18:30	미세정렬장치를 갖춘 초소형 전자컬럼 Sungwoong Choi, Youngbok Lee, Dae-Wook Kim, Seungjoon Ahn, Tae- Sik Oh, and Ho Seob Kim Department of Nanoscience, Sun Moon University
TP1-181	17:10-18:30	Flexible PCB를 이용한 마이크로컬럼 Youngbok Lee, Sungwoong Choi, Hyung Woo Kim, Dae-Wook Kim, Seungjoon Ahn, Tae-Sik Oh, and Ho Seob Kim Department of Nanoscience, Sun Moon University
TP1-182	17:10-18:30	4중국 디플렉터를 이용한 마이크로컬럼의 특성 연구 Hyung Woo Kim, Youngbok Lee, Sungwoong Choi, Anjli Sharma, Tae- Sik Oh, Dae-Wook Kim, Seungjoon Ahn, and Ho Seob Kim Department of Nanoscience, Sun Moon University
TP1-183	17:10-18:30	Preliminary Test of Ultraminiaturized Microcolumn Anjli Sharma, Tae-Sik Oh, Dae-Wook Kim, and Ho-Seob Kim Department of Physics and Nanoscience, Sun Moon University