2018년 2월 6일(화), 16:00-17:30 컨벤션 호텔, 5층 로비

[TP1] Poster Session I

TP1-1	Evaluation of Spin-on Glass for a Dielectric Use in Multilayer Wafer Level Packaging Changmin Song, Sungdong Kim, and Sarah Eunkyung Kim Seoul National University of Science and Technology
TP1-2	Effect of Si Mechanical Grinding on the Electrical Properties of Oxide Semiconductor Thin Film on Si Substrate Seungnum Cho, Sungdong Kim, and Sarah Eunkyung Kim Seoul National University of Science and Technology
TP1-3	화학기상증착법을 이용한 그래핀의 저온 합성 및 구리/그래핀 배선 특성 김항규, 손명우, 함문호 광주과학기술원 신소재공학부
TP1-4	3 Pole의 MICP Cathode를 사용한 Plasma에서의 PR Ash Rate 특성연구 서원 ¹ , 정청하 ¹ , 김정현 ¹ , 강상희 ² , 김구성 ¹ ¹ 강남대학교 전자패키지연구소, ² 주식회사 세미글로벌
TP1-5	W Touch CMP slurry abrasive 입자 흡착 및 제거 양상 분석 Hyo-Chol Koo, Sung Yun Lee, Hyung Hwan Kim, and Sang Deok Kim R&D Division, SK Hynix
TP1-6	Backside Roughness에 따른 Stealth Dicing 영향성 연구 안미래, 이강원, 이채성, 이중진, 문기일 Department of PKG Technology Development, SK Hynix
TP1-7	Pad Ball Bond Shift에 따른 Bond-ability 연구 유은정, 조원호, 이웅선 Mobile DRAM PKG Development, SK Hynix
TP1-8	Effectiveness of Package Level EBG Structure in Reducing Radio-Frequency Interference Youngbong Han, Hai Au Huynh, Jihoon Kim, and SoYoung Kim College of Information and Communication Engineering, Sungkyunkwan University
TP1-9	Coefficient of Thermal Expansion of Non Conductive Adhesive (NCA) with Inorganic Filler Size Distribution Tae-Young Lee ^{1,2} , Young-Ho Kim ² , Sehoon Yoo ¹ ¹ Joining R&D Group, KITECH, ² Division of Materials Science and Engineering, Hanyang University

TP1-10	RFI Shielding Structure for Fan-out Wafer Level Packaging Hai Au Huynh, JiHoon Kim, Youngbong Han, and SoYoung Kim College of Information and Communication Engineering, Sungkyunkwan University
TP1-11	Effect of Ni-P Morphology on Intermetallic Compound between Electroless Nickel Immersion Gold/Sn-Ag-Cu Solder during Isothermal Aging Wonil Seo ^{1,2} , Young-Ho Kim ² , and Sehoon Yoo ¹ ¹ Joining R&D Group, KITECH, ² Division of Materials Science and Engineering, Hanyang University
TP1-12	Study on Microstructural Evolution of co-Evaporated Bismuth Telluride Films with Various Film Thickness and its Effects on Electrical and Thermoelectric Properties Haishan Shen ^{1,3} , Suhyeon Lee ³ , Jun-Gu Kang ¹ , Tae-Yil Eom ² , Hoojeong Lee ¹ , Seungwoo Han ³ 1 Department of Advanced Materials Science and Engineering, Sungkyunkwan University, 2 SAINT, Sungkyunkwan University, 3 Division of Nano-Mechanical System Research, KIMM
TP1-13	Narrow Chip to Substrate Gap에서의 Plasma Cleaning 고찰 김대진 SK 하이닉스
TP1-14	Atomic Layer Deposition of Nickel and Nickel-based Alloy Thin Filmsusing Non-Oxidizing Reactant Forsilicide Shunichi Nabeya ^{1,2} , Soonyoung Jung ¹ , and Soo-Hyun Kim ¹ ¹ School of Materials Science and Engineering, YeungnamUniversitsy, ² Tanaka Precious Metals
TP1-15	Research of the Indium and Tin Alloy for the Low Melting Point Solder Materials Sungryul Mang ¹ , Minwoo Cho ² , and Hoojeong Lee ^{1,2} 1 SAINT, Sungkyunkwan University, 2 Department of Advanced Materials Science and Engineering, Sungkyunkwan University
TP1-16	Low Temperature Synthesis of 2D MoS2 for Gas Sensor Youngjun Kim ¹ , Yuxi Zhao ¹ , Jeong-Gyu Song ¹ , Gyeong Hee Ryu ² , Kyung Yong Ko ¹ , Whang Je Woo ¹ , Zonghoon Lee ² , Jusang Park ¹ , and Hyungjun Kim ¹ 1 School of Electrical and Electronic Engineering, Yonsei University, 2 School of Materials Science and Engineering, UNIST
TP1-17	기상 증착 방식의 배리어 적용 된 구리 배선의 일렉트로마이그레이션 신뢰성 거동 및 배리어에 따른 구리 박막의 미세구조 변화 고찰 장경태, 나세권, 이솔규, 주영창 서울대학교 재료공학부
TP1-18	온칩 구조의 국부적 열점 제어를 위한 2차원 수평형 박막 열전 냉각기에 대한 연구 박홍범, 정민우, 김 철, 주영창 서울대학교 재료공학부

TP1-19	Effect of Electrodes on Co-sputtered SiTe Threshold Switches Jeongun Choe, Jaehyun Han, Su-Bong Lee, Deok-Jin Jeon, and Jong-Souk Yeo School of Integrated Technology, Yonsei University
TP1-20	Improved Thermal Stability and Lower Sheet Resistance of NiSi with Carbon Presilicidation Implant Iksoo Park, Sangwon Baek, Rockhyun Baek, and Jeong-soo Lee Department of Electrical Engineering, POSTECH
TP1-21	Effects of Cu RDL on Planarization of Polymeric Interlayer Dielectrics for FOWLP Applications Seungjoo Han ¹ , Jungeun Pyun ¹ , Yejin Kim ¹ , Soojung Kang ¹ , Sarah E, Kim ² , and Sungdong Kim ¹ ¹ Department of Mechanical System Design Eng., Seoul National University of Science and Technology, ² Graduate School of Nano-IT Design Convergence, Seoul National University of Science and Technology
TP1-22	Bis(1,4-di-iso-propyl-1,4-diazabutadiene) Nickel을 이용한 Nickel 박막의 Plasma-enhanced Atomic Layer Deposition 박재민 ¹ , 김성윤 ¹ , 황준 ¹ , 한원석 ² , 고원용 ² , 이원준 ¹
TP1-23	Low Resistance ALD-NiGe Contact with Phosphorus Segregation on n-Type Germanium Hyun Jun Ahn, Jungmin Moon, Tae In Lee, and Byung Jin Cho School of Electrical Engineering, KAIST
TP1-24	Air-exposure Effects on CMOS Organic Thin-Film Transistors and Inverter Seunghyun Yoo, Hocheon Yoo, and Jae-Joon Kim Department of Electrical Engineering, POSTECH
TP1-25	Simulation and Optimization for High Aspect Ratio Deposition by Long Throw Sputter PVD Method Hee-Young Shin, Ji Woo Park, Hee do Na, and Hyunchul Sohn Department of Materials Science and Engineering, Yonsei University
TP1-26	Multi-Step and Single-Step in-situ Microwave Annealing as Low Thermal Budget Technique for Solution-Processed IGZO TFTs Jin-Hyeock Jeon and Won-Ju Cho Department of Electrical Materials Enginieering, Kwnagwoon University
TP1-27	Top-Split-Gate Ambipolar Organic Thin-Film Transistors Hocheon Yoo and Jae-Joon Kim Department of Creative IT Engineering, POSTECH

TP1-28	Fabrication of BEOL Transistor Using Cu Bottom Gate for Microwave Annealing with Low Temperature Annealing Min-Soo Kang and Won-Ju Cho Department of Electronic Materials Engineering, Kwangwoon University
TP1-29	Characterizations of P-Type Tin Monoxide Thin Films Deposited by a Co-Sputtering Process Seungjun Lee, Younjin Jang, Eun Suk Hwang, Jun Shik Kim, SeokMin Jeon, and Cheol Seong Hwang Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University
TP1-30	Hysteric Transfer Characteristics of P-Type Thin Film Transistors with SnO Thin Films Grown by Atomic Layer Deposition Younjin Jang ¹ , Jun Shik Kim ¹ , Eun Suk Hwang ¹ , Seungjun Lee ¹ , Seok Min Jeon ¹ , Jeong Hwan Han ² , and Cheol Seong Hwang ¹ **Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University, **Department of Materials Science and Engineering, Seoul National University of Science and Technology**
TP1-31	Impact of Microwave Irradiation on a-IGZO TFTs with High-k Gate Dielectrics Joong Won Shin and Won-Ju Cho Department of Electrical Material Engineering, Kwangwoon University
TP1-32	Fabrication of High-Performance Oxide Semiconductor TFTs Using CAAC-IGZO Joong Won Shin and Won-Ju Cho Department of Electrical Material Engineering, Kwangwoon University
TP1-33	Impacts of Sequential Ultraviolet and Thermal Treatment on Performances and Stability in ZnON Thin Film Transistors Hwan-Seok Jeong, Dae-Hwan Kim, and Hyuck-In Kwon School of Electrical and Electronics Engineering, Chung-Ang University
TP1-34	New Parylene Coating System Using Real-Time Electrical Impedance Monitoring of Parylene Deposition J.S Park ¹ , J.S Kim ² , T. Nguyen ¹ , M.H. Kim ² , Y.S. Jang ² , and S. Cho ¹ ¹ Gachon Advanced Institute for Health Science and Technology(GAIHST), Gachon University, ² Femto Science LTD.
TP1-35	Atomic Layer Deposition of TiTe2 Thin Films for Ti-Sb-Te Phase Change Memory Application Chanyoung Yoo, Eui-sang Park, Woohyun Kim, Yoon Kyeung Lee, and Cheol Seong Hwang Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University

TP1-36	A Research on Electrical and Thermal Stabilities of ZnON Thin-Film Transistors with Varying Channel Thickness Dae-Hwan Kim, Min Jae Park, and Hyuck-In Kwon School of Electrical and Electronics Engineering, Chung-Ang University
TP1-37	Ultrathin Thin Film Transistors with CYTOP Encapsulations by Using Water Soluble PVA Jae Moon Kim, Min Su Kim, Jong Su Oh, and Yong-Sang Kim School of Electronics and Electrical Engineering, Sungkyunkwan University
TP1-38	Atomic Layer Deposition of GeSe Films for Ovonic Threshold Switch Application Woohyun Kim, Chanyoung Yoo, Eui-sang Park, Yoon Kyeung Lee, and Cheol Seong Hwang Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University
TP1-39	Atomic Layer Deposition of SnTe for Dopant Application of Phase-Change Materials Eui-sang Park ¹ , Chanyoung Yoo ¹ , Woohyun Kim ¹ , Yoon Kyeung Lee ¹ , Jaesun Jung ² , and Cheol Seong Hwang ¹ 1 Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University, ² Soulbrain
TP1-40	Atomic Layer Deposition of Ru Thin Film with Enhanced Growth Rate on Ta ₂ O ₅ /Si Substrate Using RuO ₄ Precursor and H ₂ Gas Cheol Hyun An, Sang Hyeon Kim, Dae Seon Kwon, Soon Hyung Cha, Sung Tak Cho, and Cheol Seong Hwang Department of Materials Science and Engineering, Seoul National University
TP1-41	Zinc Tin Oxide Thin Films Grown by Atomic Layer Deposition for Charge-Trap Flash Memory Jun Shik Kim ¹ , Eun Suk Hwang ¹ , Seungjun Lee ¹ , Younjin Jang ¹ , Seok Min Jeon ^{1,2} , and Cheol Seong Hwang ¹ ¹ Department of Materials Science & Engineering, and Inter-University Semiconductor Research Center, Seoul National University, ² SK Hynix Semiconductor Inc.
TP1-42	Oxide Semiconductor-Based Charge Trap Device for NAND Flash Memory Eun Suk Hwang ¹ , Jun Shik Kim ¹ , Seok Min Jeon ^{1,2} , Seungjun Lee ¹ , Younjin Jang ¹ , and Cheol Seong Hwang ¹ ¹ Department of Materials Science & Engineering, and Inter-University Semiconductor Research Center, Seoul National University, ² SK Hynix Semiconductor Inc.
TP1-43	Atomic Layer Deposition of Ta-Doped SnO ₂ as a Reduction-Resistant Oxide Electrode Cheol Jin Cho ^{1,2} Jung-Joon Pyeon ^{1,3} Woo Chul Lee ^{1,2} Chong-Yun Kang ^{1,3} Cheol Seong Hwang ² , and Seong Keun Kim ¹ ¹ Center for Electronic Materials, KIST, ² Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, College of Engineering, Seoul National University, ³ KU-KIST Graduate School of Converging Science and Technology,

TP1-44	A Study of the Physical and Chemical Properties of P-Type Tin Oxide Thin-Films for Transistor Applications with Argon Plasma Surface Treatment Soo-Hun Kwon, Sang-Dae Bae, Hwan-Seok Jeong, and Hyuck-In Kwon School of Electrical and Electronics Engineering, Chung-Ang University
TP1-45	The Analysis on Mobility of Vertical Field Effect Transistors Composed by Graphene/WSe2 Heterostructure Yong Seon Shin and Woo Jong Yu Department of Electrical and Electronics Engineering, SungkyunKwan University
TP1-46	MIM Capacitor based on ZrO ₂ /Al ₂ O ₃ /TiO ₂ Dielectric for DRAM Devices Soon Hyung Cha ¹ , Cheol Hyun An ² , Sang Hyeon Kim ² , Dong gun Kim ² , Dae Seon Kwon ² , Seong Tak Cho ² , and Cheol Seong Hwang ² ¹ Department of Engineering Practice, Seoul National University, ² Department of Materials Science and Engineering and Inter-University Semiconductor Research Center, Seoul National University
TP1-47	Atomic Layer Deposition of Ru Thin Films Using 'Rudense' as Ru Precursor Dae Seon Kwon ¹ , Cheol Hyun An ¹ , Sang Hyeon Kim ¹ , Hoju Song ¹ , Seong Tak Cho ¹ , Soon Hyung Cha ¹ , Taishi Furukawa ³ , Teppei Hayakawa ³ , Kazuhisa Kawano ⁴ , and Cheol Seong Hwang ^{1,2} ¹ Department of Materials Science and Engineering, Seoul National University, ² Interuniversity Semiconductor Research Center, Seoul National University, ³ Advanced Materials Research Laboratory, TOSOH Corporation, ⁴ Advanced Materials Division, TOSOH Corpor
TP1-48	Thermal Annealing Effect on Phase Separation Morphology in Thin Film based on Polyfluorene Polymer Blends Jiho Lee, Jaeseung Kim, Dongjin Kim, Sungwook Choi, Myungwoo Chung, Kyuseok Yun, and Hyunjung Kim Department of Physics, Sogang University
TP1-49	Effects of Thickness Variations in InGaZnO Active Channel Prepared by Atomic-Layer Deposition on Thin-Film Transistor Characteristics So-Jung Yoon ¹ , Nak-Jin Seong ² , Kyujeong Choi ² , Woong-Chul Shin ² , and Sung-Min Yoon ¹ **Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University, ² NCD Co., Ltd.
TP1-50	Improvement the Charge Trapping and Detrapping Characteristics in Amorphous In-Ga-ZnO Thin-Film-Transistors Using Microwave Irradiation Hyun-Woo Lee and Won-Ju Cho Department of Electrical Materials Enginieering, Kwnagwoon University
TP1-51	Poly Silicon's Crystallinity Evaluation by Frequency Variable C-V Measurement Kwang-jun Koo and Byoung-deog Choi College of Information and Communication Engineering, Sungkyunkwan University
TP1-52	Current Transport Mechanism in Au/bulk GaN Contacts with an AlN Layer Deposited by Atomic Layer Deposition Yurim Kwon ¹ , Myeong Cheol Kim ¹ , Byung Joon Choi ¹ , and Hogyoung Kim ² ¹ Department of Materials Science and Engineering, Seoultech, ² Department of Visual Optics, Seoultech

TP1-53	Improved Synaptic Characteristics of ALD HfOx/TiOx Bi-Layered ReRAM Sohyeon Kim, Boncheol Ku, Yawar Abbas, Andrey Serveevich Sokolov, Yu-Rime Jeon, and Changhwan Choi Division of Materials Science and Engineering, Hanyang University
TP1-54	Atomic Layer Deposition of HfO2 Films Using La(NO ₃) ₃ ·6H ₂ O Solution for Oxidant Seon Yong Kim ¹ , Yong Chan Jung ¹ , Sejong Seong ¹ , Taehoon Lee ¹ , In-Sung Park ^{1,2} and Jinho Ahn ^{1,2} ¹ Division of Materials Science and Engineering, Hanyang University, ² Institute of Nano Science and Technology, Hanyang University
TP1-55	Impedance Spectroscopic Analysis of Zr Doped HfO2 with Increasing Switching Cycling Moonyoung Jung ¹ , Youngji Noh ² , and Seung-eon Ahn ¹ ¹ Department of Nano-Optical Eng, Korea Polytechnic University, ² Department of Advanced Convergence Technology, Korea Polytechnic University
TP1-56	AC Device Approach to the Evaluation of Intrinsic Mobility of Oxide Thin Film Transistor Sungwoo Kim ¹ , Hyunsuk Woo ² , and Sanghun Jeon ^{1,2} ¹ Department of Display and Semiconductor Physics, Korea University, ² Department of Applied Physics, Korea University
TP1-57	MIM Capacitor based on ZrO ₂ /Y2O ₃ /ZrO ₂ Dielectric for DRAM Devices Seong Tak Cho ¹ , Cheol Hyun An ¹ , Sang Hyeon Kim ¹ , Dong gun Kim ¹ , Dae Seon Kwon ¹ , Soon Hyung Cha ² , and Cheol Seong Hwang ¹ ¹ Department of Materials Science and Engineering, Seoul National University, ² Department of Engineering Practice, Seoul National University
TP1-58	Plasma-Enhanced Atomic Layer Deposition of Molybdenum Compounds Thin Films Using Mo(CO) ₆ with Various Plasma Gases Jeong-Hun Choi, Seung-Won Lee, Cheol-Min Hyun, and Ji-Hoon Ahn Department of Electronic Material Engineering, Korea Maritime and Ocean University
TP1-59	Crystal Structure and Electrical Properties Modulation of Al-Doped HfZrO ₂ Thin Films by ALD Seung-Won Lee ¹ , Jeong-Hun Choi ¹ , Cheol-Min Hyun ¹ , Minho Ahn ² , Sanghun Jeon ² , and Ji-Hoon Ahn ¹ 1 Department of Electronic Material Engineering, Korea Maritime and Ocean University, 2 Department of Applied Physics, Korea University
TP1-60	ZnO:N-그래핀 접합 배리스터의 TiO ₂ 층 페시베이션 효과 이호인, 허선우, 김시현, 김윤지, 김승모, 김기영, 이용수, 이혜지, 이병훈 Center for Emerging Electric Devices and Systems, School of Materials Science and Engineering, Gwangju Institute of Science and Technology
TP1-61	Ti-Rich TiNx Barrier Metal 적용을 통한 PMOS Gate PDR 개선 황선우, 박성진, 황의성, 김준기, 진성곤, 김상덕 SK Hynix

TP1-62	Autonomous Formation of Suspended Graphene on Electroplated Microgap Electrodes Aram Lee, Mina Park, Ho Kyun Rho, and Sang Hyun Lee Institute of Advanced Composite Materials, KIST
TP1-63	Achieving High Mobility of Zinc Oxynitride Thin Film Transistor Using Tantalum Metal Capping Method Taeho Kim and Jae Kyeong Jeong Department of Electronics and Computer Engineering, Hanyang University
TP1-64	Atomic Layer Deposition of SiO ₂ and SiO _x N _y Thin Films Using O ₂ , H ₂ O, N ₂ and NH ₃ Remote Plasma Han Jin Lee ¹ , Dae Hyun Kim ¹ , Min-Woo Ha ² , and Tae Joo Park ¹ ¹ Department of Materials Science and Chemical Engineering, Hanyang University, ² Department of Electrical Engineering, Myongji University
TP1-65	Morphology of Thermal Annealing Effect on Solution Processed Organic Semiconducting Multi Layers Jaeseung Kim, DongJin Kim, Myungwoo Chung, Jiho Lee, and H. Kim Department of Physics, Sogang University
TP1-66	Electrical Stability of Nitrogen-Doped Amorphous In-Ga-Zn-O Thin Film Transistors for High-Performance Transparent Electronics Jae-Hwan Kim, Min-Soo Kang, Gi-Won Seo, Tae-Yeol Lee, Eui-Hyun Kim, Hee-Soo Hwang, and Jin-Ha Hwang Department of Materials Science & Engineering, Hongik University
TP1-67	Top Electrode 증착을 통한 Niobium Oxide 의 Nb Binding State Control 연구이지민, 김대우, 김재연, 한유근, 손현철 Department of Materials Science and Engineering, Yonsei University
TP1-68	Diode-Like Characteristics of the Pt/Al ₂ O ₃ /Nb:SrTiO ₃ and Positive Temperature Coefficient of Resistance Taehwan Moon, Hyun Jae Lee, and Cheol Seong Hwang ¹ Department of Materials Science and Engineering and Inter-university Semiconductor Research Center, Seoul National University
TP1-69	Effect of Interfacial Morphology on Ferroelectric-Gated Graphene Device Woo Young Kim Department of Electronic Engineering, Jeju National University
TP1-70	Nonvolatile Memory Thin-Film Transistors Using In-Ga-Zn-O Channel and ZnO Charge-Trap Layer on Ultra-Thin Flexible Polyimide Substrates Hyeong-Rae Kim, Hye-Won Jang, Ji-Hee Yang, and Sung-Min Yoon Department of Advanced Materials Engineeting for Information and Electronics, Kyung Hee University

TP1-71	Solution-Processed High-κ ZrO ₂ Gate Dielectric for p-Channel SnO TFTs Azida Azmi ² , Jiwon Lee ¹ , and Jae Kyeong Jeong ¹ ¹ Department of Electronics and Computer Engineering, Hanyang University, ² Department of Materials Science and Engineering, Inha University
TP1-72	Investigation of P(VDF-TrFE) Based Ferroelectric Capacitor for Negative Capacitance Steep Switching Sang-Woo Han ¹ , Dong-Hwan Kim ² , Hyun-Seop Kim ¹ , Min-Gi Jo ¹ , Won-Ho Jang ¹ , and Ho-Young Cha ¹ 1 School of Electronic and Electrical Engineering, Hongik University, 2 Department of Electrical and Computer Engineering, Seoul National University
TP1-73	An Enhancement Layer to Improve Cu Gap-Fill Process with CVD-Co Liner Byeong-Hwa Jeong ¹ , Min Soo Kim ¹ , Yong Seok Jang ¹ , Seung Su Choi ¹ , Masamichi Harada ² , Masaki Uematsu ² , and Yutaka Kokaze ² 1 Korea Institute for Super Materials, ULVAC KOREA Co., Ltd., 2 Institute of Semiconductor and Electronics Technologies, ULVAC Inc.
TP1-74	Cyclopentadienyl-Type Ti Precursor를 이용한 TiO_2 박막의 ALD 공정 김성윤 1 , 김재민 1 , 구지연 1 , 박재민 1 , 박미라 2 , 안효진 2 , 박정우 2 , 이원준 1 1 세종대학교 나노신소재공학과, 2 한솔케미칼 박막재료팀
TP1-75	Impact of Al ₂ O ₃ Buffer Layer on Ultra-Thin Flexible Polyimide Substrates for Transparent InGaZnO Thin Film Transistors Hye-Won Jang, Hyeong-Rae Kim, Ji-Hee Yang, and Sung-Min Yoon Department of Advanced Materials Engineeting for Information and Electronics, Kyung Hee University
TP1-76	열안정성이 우수한 Si Precursor를 이용한 고온 ALD SiO $_2$ 박막의 특성 구지연 1 , 김성윤 1 , 박재민 1 , 박정우 2 , 이원준 1 1 세종대학교 나노신소재공학과, 2 한솔케미칼 박막재료팀
TP1-77	In-Sn-Ga-O Thin Film Transistors with High Performance in Low Annealing Temperature Hyeon A Kim and Jae Kyeong Jeong Department of Electronic Engineering, Hanyang University
TP1-78	Enhanced Electrical Performance of Amorphous In-Ga-Zn-O TFT Using Bi-Layered Active Channel Hyun Woo Son, Myung-Sic Chae, Ju Hyun Park, and Tae Geun Kim School of Electrical Engineering, Korea University
TP1-79	동작 메커니즘에 기반한 Tunnel FET의 신뢰성 측정법에 관한 연구 김승모, 강수철, 임성관, 허선우, 이호인, 이용수, 이병훈 Center for Emerging Electric Devices and Systems, School of Material Science and Engineering, GIST

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TP1-80	ZnO top gate를 이용한 그래핀/Ge 쇼트키 접합의 광소자 응용 김시현, 장경은, 유태진, 권민규, 이병훈 Center for Emerging Electronic Devices and Systems, School of Materials Science and Engineering, GIST
TP1-81	Implementation of Synaptic Device with Long/Short Term Memory Function Using High-k Charge Storage Layer Young-tak Seo ¹ , Myoung-sun Lee ² , Ho-Jung Kang, Byung-Gook Park, and Jong-Ho Lee 1 Department of Electrical and Computer Engineering and ISRC, Seoul National University, 2 Semiconductor R&D Center, Samsung Electronics
TP1-82	Demonstration of Unsupervised Learning with Spike-Timing-Dependent Plasticity Using a SONOS Gated-Diode Memory Array Chul-Heung Kim, Soochang Lee, Byung-Gook Park, and Jong-Ho Lee Department of Electrical and Computer Engineering, ISRC, Seoul National University
TP1-83	Improvementon Interfacial Quality of Ge MOS Capacitor Using RIE O ₂ Plasmatreatment Hyeong-Rak Lim ^{1,2} , Seong-Kwang Kim ¹ , Jae-Hoon Han ¹ , Jae-Phil Shim ¹ , Gun-Wu Ju ¹ , Su-Bin Lee ¹ , Byeong-Kwon Ju ² , Hyung-jun Kim ¹ , and Sang-Hyeon Kim ¹ 1 KIST, 2 Department of Electrical and Computer Engineering, Korea University
TP1-84	Analysis of Silicon MOSFET-Based Plasmonic Terahertz Detection Delay with Advanced Non-Quasi-Static Compact Model Sang Hyo Ahn, Min Woo Ryu, Esan Jang, Hyeong Ju Jeon, and Kyung Rok Kim Department of Electronic Engineering, UNIST
TP1-85	실리콘 기반 상온 공진 플라즈마파 트랜지스터 테라헤르츠 검출소자의 이론적 가능성 분석 박종율, 김성호, 김경록 울산과학기술원 전기전자공학부
TP1-86	낮은 열공정버짓 이용한 초절전 터너리 CMOS 소자 정재원, 신선해, 김경록 울산과학기술원 전기전자컴퓨터공학부
TP1-87	Investigation of Select Transistor in Vertical NAND Flash Memory Daewong Kang ¹ , Myeongsun Kim ² , Ikhyun Kwon ² , and Il Hwan Cho ² ¹ University of North Texas, ² Department of Electronic Engineering Myongji University
TP1-88	실리콘 나노선을 이용한 전계효과 다이오드 소자의 전기적 특성 연구 임두혁, 김상식 고려대학교 전기전자공학과

TP1-89	Design of Forward Propagation Using Gated Schottky Diodes Suhwan Lim, Jai-Ho Eum, Jong-Ho Bae, Byung-Gook Park, and and Jong-Ho Lee Department of ECE and ISRC, Seoul National University
TP1-90	실리콘 기반 Fin 구조 고이동도 소자 김성호, 박종율, 김우석, 김경록 UNIST 전기 및 전자공학부
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