



2026-01-27(화), 13:00-18:00

(공식발표시간: 16:00-18:00)

ZONE1 (4층, 로비)

[SP] 학부생포스터세션

A. Interconnect & Package 분과

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| SP-001 | Development of Plasma Surface Modification and Dry Etching Processes for Cu/polymer Hybrid Structures Gwangyu Kim, Jaewoon Koo, Junmo Koo, Jueon Park, Leejun Choi, Kyungjoon Kim, Minseong Ko, and Gangtae Jin Department of Semiconductor Engineering, Gachon University |
| SP-002 | Electrical and Thermal Reliability of Fine-Line RDLs on Glass Interposers for 2.1D Integration Kyungjoon Kim, Jueon Park, Leejun Choi, Jaewoon Koo, Jungsoo Lee, Sangmin Yeo, Dongjun Jo, Youngsang Jo, Junmo Koo, Minseong Ko, Gwangyu Kim, and Gangtae Jin Department of Semiconductor Engineering, Gachon University |
| SP-003 | Co/SiO₂에서의 누설전류 메커니즘 조동준, 여상민, 구준모, 조용상, 이정수, 진강태 가천대학교 반도체대학 반도체공학과 |
| SP-004 | Mo 박막의 결정립계 산란을 통한 비저항 증가의 정량적 평가 차동현 ¹ , 한승우 ² , 최두호 ³ ¹ 가천대학교 화학과, ² 가천대학교 의공학과, ³ 가천대학교 반도체공학과 |
| SP-005 | 저저항 반도체 Interconnection을 위한 Ar 플라즈마 기반 초평탄 SiO₂/Cu 계면 구현 기술 한승우 ¹ , 차동현 ² , 최두호 ³ ¹ 가천대학교 의공학과, ² 가천대학교 화학과, ³ 가천대학교 반도체공학과 |
| SP-006 | 개시제를 이용한 화학기상증착 공정으로 증착된 실록산계 초저유전율 박막의 전기적 및 신뢰성 특성 오채은 ¹ , 황남기 ² , 유지호 ² , 한상혁 ¹ , 김형준 ¹ , 박태원 ¹ , 김민주 ^{1,2,3} ¹ 단국대학교 공과대학 전자전기공학부, ² 단국대학교 공과대학 파운드리공학과, ³ 단국대학교 공과대학 융합반도체공학과 |



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| SP-007 | <p>접촉 불량 저감을 위한 하이브리드 본딩 패드 최적화</p> <p>최진영, 김민희</p> <p>국립한밭대학교 창의융합학과</p> |
| SP-008 | <p>반도체 배선재료 저 비저항화 및 EM 신뢰성 향상 연구를 위한 Agent Framework 구축</p> <p>김민재¹, 정민주², 서형대³, 김민지², 구예림², 안승준¹, 조용은⁴, 이동우¹</p> <p>¹성균관대학교 기계공학부, ²성균관대학교 화학공학부, ³성균관대학교 융합생명공학부, ⁴KAILOS LAB Co., Ltd.</p> |
| SP-009 | <p>금속 배선에서 선풍 감소와 배리어 점유율 증가가 총저항에 미치는 영향에 관한 연구</p> <p>김민재, 김선현, 이학준, 이재우, 홍슬기</p> <p>서울과학기술대학교 지능형반도체공학과</p> |
| SP-010 | <p>Cu 결정립 크기와 리플로우 TAL (Time-Above-Liquidus)이 솔더 접합 부 계면 금속 간화합물의 형성과 성장에 미치는 영향</p> <p>정선주, 윤정원</p> <p>충북대학교 신소재공학과</p> |
| SP-011 | <p>Highly-Conductive Cobalt Thin Film Prepared by Plasma-Enhanced Atomic Layer Deposition as a Copper Alternative Interconnect</p> <p>Hyeonbin Kim¹, Yeseul Son², and Soo-Hyun Kim^{2,3}</p> <p>¹School of Energy and Chemical Engineering, UNIST, ²Graduate School of Semiconductor Materials and Devices Engineering, UNIST, ³Department of Materials Science and Engineering, UNIST</p> |
| SP-012 | <p>선택적 증착 기반 Ru/Mn Barrier를 통한 BEOL 미세화 난제 해결</p> <p>서형대¹, 김예지², 이용재³, 정민주⁴</p> <p>¹성균관대학교 융합생명공학과, ²성균관대학교 건설환경공학부, ³성균관대학교 신소재공학부, ⁴성균관대학교 화학공학부</p> |
| SP-013 | <p>Low-Loss Glass-Interposer-Based CPW Interconnection for Millimeter-Wave Applications</p> <p>Han-Soo Kim, Ye-Chan Park, Jung-Yoon Choi, Sang-Hoon Jeon, and Jong-Ryul Yang</p> <p>Konkuk University</p> |
| SP-014 | <p>Sn-Bi계 솔더의 저온 공정 최적화 및 계면 특성 분석</p> <p>이민석¹, 김민서², 김도연², 장창훈², 최문보³, 정인화⁴, 최성재², 김병모², 최승용², 김병모⁵</p> <p>¹성균관대학교 시스템경영공학과, ²성균관대학교 전자전기공학부, ³성균관대학교 바이오 메카트로닉스학과, ⁴성균관대학교 한문학과, ⁵성균관대학교 신소재공학부</p> |



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| SP-015 | Finite Element Analysis of Dielectric Property Effects on Cu Deformation Behavior in Hybrid Bonding Interfaces Euntaek Lim and Jong Kyung Park Department of Mechanical System Design Engineering, Seoul National University of Science & Technology |
| SP-016 | Polyimide Bonding Characteristics for Cu/Polymer Hybrid Bonding Applications Jaemin Yu ¹ , Injoo Kim ² , Siye Lee ² , Minji Kang ² , Hyein Jin ² , and Sungdong Kim ¹ ¹ Department of Mechanical System Design Engineering, Seoul National University of Science & Technology, ² Department of Mechanical Design and Robot Engineering, Seoul National University of Science & Technology |
| SP-017 | Role of the Hollow Structure of Silica Nanoparticles in CMP Applications Yewon Seol ¹ , Junwoo Park ² , Minji Son ² , Wonbin Lee ³ , Jakyeong Koo ⁴ , In-Kyung Park ⁴ , and Jae-Do Nam ⁴ ¹ Department of Chemical Engineering, Sungkyunkwan University, ² Department of Chemistry, Sungkyunkwan University, ³ Department of Electronic and Electrical Engineering, Sungkyunkwan University, ⁴ Department of Polymer Science and Engineering, Sungkyunkwan University |
| SP-018 | Investigation of Co-Co Direct Bonding Characteristics for Hybrid Bonding Applications Soohyun Ko ¹ , Injoo Kim ² , Siye Lee ² , Hyein Jin ² , Minji Kang ² , Hyun-Kyu Ryu ³ , and Sungdong Kim ¹ ¹ Department of Mechanical System Design Engineering, Seoul National University of Science & Technology, ² Department of Mechanical Design and Robot Engineering, Seoul National University of Science & Technology, ³ UP Chemical Co., Ltd. |



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C. Material Growth & Characterization 분과

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| SP-025 | Synthesis and Characterization of VO₂ Thin Films Prepared by DC Magnetron Sputtering Yegeon KANG ¹ , Junseo PARK ¹ , YeongUk CHOI ² , HyunSoo AHN ² , JongHoon JUNG ² , and Jung Woo LEE ¹ ¹ Hongik University, ² Inha University |
| SP-026 | A Study on Electron Transport in ITO Electrodes on Oxide Semiconductors under Various RF Sputtering Conditions Hyunchae Yoon ¹ , Hyunjeong Kwak ² , Junyoung Choi ² , Minho Kim ¹ , and Seyoung Kim ^{1,2,3} ¹ Department of Semiconductor Engineering, POSTECH, ² Department of Electrical Engineering, POSTECH, ³ Graduate School of Semiconductor Technology, POSTECH |
| SP-027 | Structural and Electrical Properties of Vanadium Oxide Thin Films via a Solution-Based Process Hyun Seok Myoung ¹ , Hyun Soo Ahn ² , Yeong Uk Choi ² , Jong Hoon Jung ² , and Jung-Woo Lee ¹ ¹ Department of Materials Science and Engineering, Hongik University, ² Department of Physics, Inha University |
| SP-028 | Time-Composition Decoupling for Layer-by-Layer MoS₂ in Pulsed-MOCVD : Roles of Residence Time, Partial Pressure, and Mo dose Daniel Jang ¹ , Byeongmin Son ² , and Changgu Lee ³ ¹ SKKU Advanced Institute of Nanotechnology (SAINT), Sungkyunkwan University, ² Department of Semiconductor Convergence Engineering, Sungkyunkwan University, ³ School of Mechanical Engineering, Sungkyunkwan Univ |
| SP-029 | Direct Tellurization Growth of High-quality Topological Semimetal PtTe₂ Films Kyungwu Kwon ^{1,2} , Kangpyo Cho ^{1,2} , Inbae Song ^{1,2} , Yunjung Cho ^{1,2} , Wonchan Lee ^{1,2} , Jonghyeon Kim ² , Byung Cheol Park ² , and Seunguk Song ^{1,2} ¹ Department of Energy Science, Sungkyunkwan University, ² Center for 2D Quantum Heterostructures, IBS, Sungkyunkwan Unive |
| SP-030 | Reactive Sputtering of AlN Thin Films for Enhanced Electrical Insulation and Thermal Conductivity Geulha Kim ¹ , Jaemin Yang ¹ , Gwantae Kim ² , Insung Park ² , Jeongtae Kim ² , Hongsoo Ha ² , and Jung-Woo Lee ¹ ¹ Department of Materials Science and Engineering, Hongik University, ² Cryogenic Apparatus Research Center, KERI |



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| SP-031 | Atomic-Scale Control of Built-in Fields for Schottky-Like Contacts in Oxide Heterostructures Huichang Yang, Minho Baek, Woojin Bae, Yunju Jeong, Taekyeong Eom, Jinsan Choi, and Kitae Eom Gachon University |
| SP-032 | Crosslinkable Parylene Encapsulation for Advanced 3D Semiconductor Packaging Applications Hyoungjun Choi ^{1,2} , Dohyung Lee ^{1,2} , SooHyun Kim ^{1,2} , Taewoong Lim ^{1,2} , Seungju Kang ^{1,2} , Taewoong Han ^{1,2} , and Boseok Kang ^{1,2} ¹ SKKU Advanced Institute of Nano Technology, Sungkyunkwan University, ² Department Nanoscience and Technology, Sungkyunkwan University |
| SP-033 | Epitaxial Growth of BeO on Sapphire Using Plasma Enhanced Atomic Layer Deposition Gyeonghan Nae ¹ , Jonghyun Bae ^{1,2} , Dohwan Jung ¹ , Siwon Lee ^{1,2} , and Jungwoo Oh ^{1,2*} ¹ School of Integrated Technology, Yonsei University, ² BK21 Graduate Program in Intelligent Semiconductor Technology, Yonsei University |
| SP-034 | 수열합성을 통한 V Doped β-Ga₂O₃ 합성 홍다연 ¹ , 김선재 ¹ , 류희중 ^{1,2} , 황완식 ^{1,2} ¹ 한국항공대학교 신소재공학과, ² 한국항공대학교 스마트항공모빌리티학과 |
| SP-035 | (Sr, Ca)_xCuO₂ Epitaxial Thin Film Deposition on SrTiO₃ Substrates Hyungmok Lee ^{1,2} , Jaewoo Lee ^{1,2} , Jiwon Lee ^{1,2} , and Woo Jin Kim ^{1,2} ¹ Department of Materials Science and Engineering, Pusan National University, ² Institute of Materials Technology, Pusan National University |
| SP-036 | Wet-Etch-Free Transfer of Epitaxial van der Waals Oxide Films via Mechanical Exfoliation Donghoon Shin ¹ , Hyeondong Do ^{1,2} , and Woo Jin Kim ^{1,2} ¹ Department of Materials Science and Engineering, Pusan National University, ² Institute of Materials Technology, Pusan National University |



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D. Thin Film Process Technology 분과

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| SP-037 | 원자층 증착을 통한 HfO_2 박막의 공정 조건 최적화 윤정현, 조규진, 최화중, 조경률, 김진영, 김호준, 최민섭 충남대학교 신소재공학과 |
| SP-038 | ALD 공정을이용한 HfO_2/Mo 금속 게이트 절연막의 전기적 특성 분석 김정인 고려대학교 반도체물리학과 |
| SP-039 | Atomically Thin Monolayer WS_2 Diffusion Barrier for Advanced-Node Interconnect Sangmin Yeo, Dongjun Jo, Junmo Koo, Yongsang Jo, Junghwan Lim, Seojin Kim, and Gangtae Jin Department of Semiconductor Engineering, Gachon University |
| SP-040 | Process-Dependent TDDDB Improvement and Breakdown Analysis of Low-k Polymer Dielectric Junmo Koo, Sangmin Yeo, Dongjun Jo, Yongsang Jo, and Gangtae Jin Department of Semiconductor Engineering, Gachon University |
| SP-041 | Achieving High-Mobility ($\sim 25 \text{ cm}^2/\text{Vs}$) ZnON TFTs through Optimization of N_2/O_2 Ratio and Low-Temperature Annealing Seung Min Lee ¹ , Joo Hyun Jeong ¹ , Sang Jik Kwon ² , Eou-Sik Cho ² , and Min-Kyu Park ¹ ¹ Department of Semiconductor Engineering, Gachon University, ² Department of Electronic Engineering, Gachon University |
| SP-042 | 조성상경계(MPB) 기반 $\text{Hf}_x\text{Zr}_{1-x}\text{O}_2$ 박막의 저온 특성 연구 공성민 ¹ , 김준용 ² , 박민혁 ² , 이영환 ³ ¹ 전남대학교 에너지자원공학과, ² 서울대학교 재료공학부, ³ 전남대학교 신소재공학부 |
| SP-043 | Effect of Channel Thickness Scaling on Reliability of α -ITZO TFTs Gyeong-Hun Hwang and Min-Kyu Song School of Electrical Engineering, Korea University |



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| SP-044 | <p>Mo 전극 표면 제어가 $\text{Hf}_x\text{Zr}_{1-x}\text{O}_2$ 강유전 박막의 특성에 미치는 영향</p> <p>남호원¹, 정문식², 박민혁², 이영환¹</p> <p>¹전남대학교 신소재공학부, ²서울대학교 재료공학부</p> |
| SP-045 | <p>Theoretical Analysis on Small-Molecule Inhibitors for Area-Selective ALD on Ru/SiO₂ Surfaces</p> <p>Chan Hee Lee and Bonggeun Shong</p> <p>Hongik University</p> |
| SP-046 | <p>MoS₂ 박막의 탄소 불순물 절감을 위한 수평 층류 기반 MOCVD 시스템의 유체역학적 분석</p> <p>강정완, 최용관, 김예빈, 김동현, 신현호, 홍웅기</p> <p>단국대학교 융합반도체공학과</p> |
| SP-047 | <p>Process-Dependent Dual-Functional Organic Devices Exhibiting Synaptic and PUFs Behaviors</p> <p>Min Ju Jung and Eun Kwang Lee</p> <p>Department of Chemical Engineering, Pukyong National University</p> |
| SP-048 | <p>Threshold Voltage Tuning in Thin-Film Transistors via Gate Dielectric Multistacks</p> <p>Chaeyeon Jeong, Junho Choi, Sanghyeon Kim, Myung Jun Yu, Kiho Lee, and Chanyoung Yoo</p> <p>Department of Materials Science and Engineering, Hongik University</p> |
| SP-049 | <p>마이크로컨택프린팅 방식으로 유전층을 형성한 유기 트랜지스터의 적층</p> <p>박형규, 김민희</p> <p>국립한밭대학교 창의융합학과</p> |
| SP-050 | <p>Sc₂O₃-Mediated Interfacial Engineering for Crystallinity and Electrical Reliability Enhancement in ZrO₂/TiN Capacitors</p> <p>Seo-Young Choi, Yeon-Ji Jeon, Yoonchul Shin, Ji Hwan Kim, Chan-Bin Hong, and Ji-Hoon Ahn</p> <p>Department of Materials Science and Chemical Engineering, Hanyang University</p> |
| SP-051 | <p>A Study of a-IGZO Phototransistors Fabrication with Plasma-Based Low-Temperature Annealing Process</p> <p>Jeong Moo Seo¹, Tukhtaev Anvar¹, Jae-Yun Lee¹, Zhao Hanlin¹, Wang Xaiolin¹, Zhu Hang¹, Maksudov Mekhroj Abdusamad Ugli¹, Shamsiev Okhunjon Zaynidin Ugli¹, Sucang Yoo¹, and Sung-Jin Kim^{1,2,3}</p> <p>¹College of Electrical and Computer Engineering, Chungbuk National University, ²Biomedical Research Institute, Chungbuk National University, ³SJ System</p> |



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| SP-052 | Atomic Layer Deposition of Tellurium-Based p-Type Semiconductor Films Myung Jun Yu, Sanghyeon Kim, Dongjue Seol, Chaeyeon Jeong, Jungi Chae, and Chanyoung Yoo Department of Materials Science and Engineering, Hongik University |
| SP-053 | Thickness-Dependent Synaptic Characteristics of HIZO Thin-Film Transistors for Neuromorphic Applications Chang Woo Lee ¹ , Hyeon Ji Kim ² , and Sang Yeol Lee ² ¹ Department of Electronic Engineering, Gachon University, ² Department of Semiconductor Engineering, Gachon University |
| SP-054 | Enhanced Switching Performance of Hf_{1-x}Zr_xO₂ Ferroelectric Films through Thickness Scaling and Gradient Composition Strategy Ji Woo Kim, Hyo-Bae Kim, Gunho Kim, Hye Won Cho, Hyung-Seok Lee, and Ji-Hoon Ahn Department of Materials Science and Chemical Engineering, Hanyang University |
| SP-055 | ZAZ 및 HAH 커패시터의 Al₂O₃ 층 두께에 따른 전기적 특성 비교 박찬울 ¹ , 한동인 ² , 박민혁 ² , 이영환 ¹ ¹ 전남대학교 신소재공학부, ² 서울대학교 재료공학부 |
| SP-056 | Tunable CuOx Surface Engineering for Fully Self-Aligned via Application in Cu/SiO₂ Interconnect Structures Seung-Jun Lee ¹ , Soon-Kyeong Park ² , and Il-Kwon Oh ^{1,2} ¹ Department of Electrical and Computer Engineering, Ajou University, ² Department of Intelligence Semiconductor Engineering, Ajou University |
| SP-057 | Investigation of the Effect of Trap Density on the Performance of Ga-Zn-Sn-O Based Amorphous Oxide Thin-Film-Transistors by Controlling Channel Thickness Jun Young Park ¹ , Kim Tae Ho ² , Kim Hyeon Ji ² , and Sang Yeol Lee ² ¹ Department of Electronic Engineering, Gachon University, ² Department of Semiconductor Engineering, Gachon University |
| SP-058 | Co-Sputtered Hf-In-Zn-O Thin-Film Transistors: Mobility-Stability Trade-Off and Optical-Electrical Correlation Ju Young Lee ¹ , Jun Young Park ¹ , and Sang Yeol Lee ² ¹ Department of Electronics Engineering, Gachon University, ² Department of Semiconductor Engineering, Gachon University |
| SP-059 | Surface-Controlled Selective ALD of HfO₂ for Advanced Semiconductor Device Fabrication Hanseong Ko ¹ , Hyosik Jo ¹ , and Hwanyeol Park ^{1,2} ¹ Department of Display Materials Engineering, Soonchunhyang University, ² Department of Electronic Materials, Device and Equipment Engineering, Soonchunhyang University |



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| SP-060 | <p>Effect of Ar Plasma Treatment on Electrical Characteristics of a-SZTO TFTs for Logic Circuit Applications</p> <p>Ha Young Lee^{1,3}, Taeho Kim^{2,3}, and Sang Yeol Lee^{2,3}</p> <p>¹Department of Mechanical Engineering, Gachon University, ²Department of Semiconductor Engineering, Gachon University, ³Gachon Advanced Institute of Semiconductor Technology, Gachon University</p> |
| SP-061 | <p>Improved Adhesion for Printed Organic Electrochemical Transistors with Annealing Treatment</p> <p>Woojin Lee¹, Jeonggyo Kwon², Chanyeong Jung³, and Sunyoung Sohn^{1,2,3}</p> <p>¹Department of Electrical and Electronic Engineering, Sangji University, ²Department of Semiconductor and Energy, Sangji University, ³Department of Semiconductor Engineering, Sangji University</p> |
| SP-062 | <p>A Study on Improving Electrical Conductivity for Electric Field-Induced PEDOT:PSS Channels and Their Applications to the OECT Devices</p> <p>Jeonggyo Kwon¹, Gyu Min Kyung¹, Chanyeong Jung², and Sunyoung Sohn^{1,2,3}</p> <p>¹Department of Semiconductor and Energy, Sangji University, ²Department of Semiconductor Engineering, Sangji University, ³Department of Electrical and Electronic Engineering, Sangji University</p> |
| SP-063 | <p>Inherent Area-Selective Deposition by HfO₂ via PEALD Using Amorphous Carbon as a Non-Growth Surface</p> <p>Jun Seo Hwang, So Won Kim, and Hee Chul Lee</p> <p>Department of Advanced Materials Engineering, Tech University of Korea</p> |
| SP-064 | <p>Wafer-Scale Thin Film Grown WSe₂ via Molten Salt Method and Device Applications</p> <p>SeongMin Kim, Hyeongtae Kim, Subin Shim, and Jun Hong Park</p> <p>School of Materials Science & Engineering, Gyeongsang National University</p> |
| SP-065 | <p>Comparison of Various Characteristics and Lifetime Enhancement of ZnON TFTs via Organic Passivation</p> <p>Hyun Seo Kim¹, Ye Ji Choi¹, Ko Eun Ham², Sang Jik Kwon¹, Min-Kyu Park², and Eou Sik Cho^{1,2}</p> <p>¹Department of Electronic Engineering, Gachon University, ²Department of Semiconductor Engineering, Gachon University</p> |
| SP-066 | <p>ALD Super-Cycle 구성에 따른 IGZO 트랜지스터의 전기적 특성 분석</p> <p>하태준¹, 최유성², 조민서², 서민혁², 정광원¹, 정윤영^{1,2,3}</p> <p>¹포항공과대학교 전자전기공학과, ²포항공과대학교 반도체공학과, ³포항공과대학교 반도체기술융합센터</p> |
| SP-067 | <p>Enhancing Semiconductor Miniaturization Processes and Exploring New Applications based on the Principle of AS-ALD</p> <p>Subin Cho¹, Gyeongmo Gu¹, Hyunmin Roh¹, Seongho An¹, Haekyun Bong^{1,2}, and Jungwoo Oh^{1,2}</p> <p>¹School of Integrated Technology, Yonsei University, ²BK21 Graduate Program in Intelligent Semiconductor Technology, Yonsei University</p> |



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| SP-068 | Electrical Characterization of PEALD-Grown MgO Gate Dielectrics and Interface Charge Behavior Intae Hwang ¹ , Byungjun Yu ^{1,2} , Jongha Lim ^{1,2} , and Jungwoo Oh ^{1,2} ¹ School of Integrated Technology, Yonsei University, ² BK21 Graduate Program in Intelligent Semiconductor Technology, Yonsei University |
| SP-069 | Dielectric Enhancement in Tetragonal ZrO₂ Thin Films via Bottom Nb₂O₅ Insertion Induced Preferred Orientation Control Yujin Lim ¹ , Chaeyeong Hwang ¹ , Kyungmo Yang ¹ , Myeong Ho Kim ² , Jin-Sik Kim ² , and Woojin Jeon ¹ ¹ Department of Materials Science and Engineering, Kyung Hee University, ² R&D Team 1, UP Chemical Co., Ltd. |
| SP-070 | Improved Reliability of IGZO TFTs with SU-8 Passivation and Stability Analysis of NBIS/PBIS Gyeongmin Ku ¹ , Yunjeong Kim ³ , Gio Lee ¹ , Bogyom Jeong ⁴ , Kyusun Han ² , and Hongseok Oh ³ ¹ Department of Materials Science and Engineering, Soongsil University, ² Department of Intelligent Semiconductor, Soongsil University, ³ Department of Physics, Soongsil University, ⁴ Department of Electrical and Electronics Engineering, Chung-Ang University |
| SP-071 | Analysis of Al₂O₃ Thin Film Characteristics and IGZO Device Electrical Behavior according to Low-Temperature ALD Deposition Temperature Kim Seo-Yeon ¹ , Han Sung-Min ¹ , Kim Hyo-Sang ² , and Oh Hong-Seok ^{3,*} ¹ Department of Materials Science and Engineering, Soongsil University, ² Department of Intelligent Semiconductor Engineering, Soongsil University, ³ Department of Physics/Department of Intelligent Semiconductor Engineering, Soongsil University |
| SP-072 | Three-Dimensional Stacked Conjugated Polymer Transistor for Flexible Logic Circuits Sang Hwa Song, U Seong Jin, Ji Min Baek, Won Bae Cho, Hyung Soo Ahn, and Young Tea Chun Division of Electronics and Electrical Information Engineering, Korea Maritime & Ocean University |
| SP-073 | 천연 목재의 밀도와 Ga₂O₃ 코팅 두께에 따른 X-선 차폐 거동 분석 곽지원 ¹ , 김선재 ¹ , 류희중 ^{1,2} , 황완식 ^{1,2} ¹ 한국항공대학교 신소재공학과, ² 한국항공대학교 스마트항공모빌리티학과 |
| SP-074 | Selective Infiltration of Al₂O₃ in Polymeric Encapsulation Layer for Flexible OLED Ye Jin Jeong ¹ , Si Eun Jung ¹ , Su Min Eun ¹ , Ji Ho Jeon ¹ , Kwanhyuck Yoon ² , Woo Yong Sung ² , Jeong Hwan Han ¹ , and Byung Joon Choi ¹ ¹ Seoul National University of Science & Technology, ² Display Research Center, Samsung Display Co., Ltd. |



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| SP-075 | ALD-Grown SnO Thin-Film Transistors with Enhanced Hole Mobility via a Novel Sn Precursor and Optimized Annealing Process Hyun Hak Lee, Jeong Woo Kim, and Jeong Hwan Han Department of Materials Science and Engineering, Seoul National University of Science & Technology |
| SP-076 | The Influence of MoNx Interfacial Layers on Ferroelectric Properties of Hf Zr-O Capacitors Jeong Min Han, Wangu Kang, Jae Hyeon Lee, Seon Gu Choi, and Jeong Hwan Han Department of Materials Science and Engineering, Seoul National University of Science & Technology |
| SP-077 | Thermal Atomic Layer Deposition of Low-Resistivity and Highly Conformal Molybdenum Films Kyoung Hwan Kim, Ji Sang Ahn, Min Seok Kim, and Jeong Hwan Han Department of Materials Science and Engineering, Seoul National University of Science & Technology |
| SP-078 | Investigation of ZnO Infiltration Behavior and Depth Enhancement in PMMA Using Atomic Layer Infiltration (ALI) 전지호 ¹ , 정시은 ¹ , 은수민 ¹ , 정예진 ¹ , 윤관혁 ² , 성우용 ² , 최병준 ¹ , 한정환 ¹ ¹ Seoul National University of Science & Technology, ² Display Research Center, Samsung Display Co., Ltd. |
| SP-079 | Theoretical Analysis on Small-Molecule Inhibitors for Area-Selective ALD on TiN/SiN Surfaces Su Min Wang and Bonggeun Shong Hongik University |
| SP-080 | Theoretical Analysis of the Surface Reaction of Silicon Nitride ALD Using Si₂Cl₆ Kyung Han Yang and Bonggeun Shong Hongik University |
| SP-081 | Theoretical Analysis on the Light Absorption of Metal-Oxide Resists in the EUV Regime Daewoong Kim, Woong Pyo Jeon, and Bonggeun Shong Hongik University |
| SP-082 | Theoretical Analysis on the Reactivity of EUV-absorbing Molecules Seo Yeon Gwak and Bonggeun Shong Hongik University |



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| SP-083 | Bipolar Switching in Correlated LTO: Interplay of Oxygen Vacancy Dynamics and Mott Transition Seunghwan Kim, Gyeongil Son, Wonnyeon Kim, Satish B. Jadhav, and Minjae Kim School of Materials Science & Engineering, Yeungnam University |
| SP-084 | From Filaments to Interfaces: Tailoring Switching Mechanisms in Ta-O Memristors for Brain-Inspired Computing Seongjin Joo, Gyeongil Son, Juyoung Park, Suraj B. Madake, and Minjae Kim School of Materials Science & Engineering, Yeungnam University |
| SP-085 | Self-Rectifying Interface-Type RRAM based on Fluorine-Doped TiO₂ Thin Films Prepared by Atomic Layer Deposition Inseob Shin, Gyeongil Son, Wonnyeon Kim, Satish B. Jadhav, and Minjae Kim School of Materials Science & Engineering, Yeungnam University |
| SP-086 | High-Performance Selector-Only Memory via Buffer Layer Engineering Yoon Jae Hong, Ju Hwan Park, Se Hwan Jeon, Hyun Wook Kim, and Byung Joon Choi Department of Materials Science and Engineering, Seoul National University of Science & Technology |
| SP-087 | Operation of Te-Rich GeTe_x Based Selector-Only Memory Tae Jun Yang, Se Hwan Jeon, Ju Hwan Park, Hyun Wook Kim, Dong Hyun Kim, and Byung Joon Choi Seoul National University of Science & Technology |
| SP-088 | Analysis of Electrical Characteristics of MoS₂ FETs with Different Layers of Film Jong Mun Park, Ha Yeon Choi, Joon Soo Byeon, Seung Ri Jeong, Shivam Kumar Gautam, and Hi-Deok Lee Department of Electronics Engineering, Chungnam National University |
| SP-089 | Analysis of Grain Boundary Scattering and Grain Coarsening for Low-Resistivity Ru Interconnects Soobin Bae ^{1,2} , Dahui Jeon ^{1,2} , and In-Hwan Baek ^{1,2} ¹ Department of Chemical Engineering, Inha University, ² Program in Semiconductor Convergence, Inha University |
| SP-090 | Effect of Annealing on a-IGZO Thin-Film Transistors and Cryogenic Electrical Characteristics for Extreme Environment Ji Min Baek, Jee Hun Kim, and Young Tea Chun Division of Electronics and Electrical Information Engineering, Korea Maritime & Ocean University |



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| SP-091 | <p>Interface Engineering for Enhanced Thermoelectric Performance via UV-Assisted ALD of Al_2O_3 on P-Type Bi-Te Compounds</p> <p>Jin Kyeong Shin¹, Su Min Eun¹, Yu Min Lee¹, Jun Sang Lee¹, Yeongtae Choi², and Byung Joon Choi¹</p> <p>¹Department of Materials Science and Engineering, Seoul National University of Science & Technology, ²MAJE TECHNOLOGY Co., Ltd.</p> |
| SP-092 | <p>Hafnia 기반 강유전체 소자의 산소공공 농도에 따른 Retention 특성 분석</p> <p>김민규¹, 박은형¹, 하의진², 조원태³, 이장식^{1,3}</p> <p>¹포항공과대학교 반도체공학과, ²포항공과대학교 무은재학부, ³포항공과대학교 신소재공학과</p> |
| SP-093 | <p>Enhancement of Electrical Conductivity in Atomic Layer Deposited SnO_2 by Fluorine Doping</p> <p>Sang Beom Seo^{1,2}, Dahui Jeon^{1,2}, and In-Hwan Baek^{1,2}</p> <p>¹Department of Chemical Engineering, Inha University, ²Program in Semiconductor Convergence, Inha University</p> |
| SP-094 | <p>Reliability Enhancement of HfO_2-Based Memristor via TiO_2 Interlayer</p> <p>Soonbin Kwon, Seokho Cho, Juan Hong, and Woongkyu Lee</p> <p>Department of Materials Science and Engineering, Soongsil University</p> |
| SP-095 | <p>Controlling Oxygen Vacancy Migration for Stable Resistive Switching in Hafnium Oxide Memories</p> <p>Hae In Kim, Yura Oh, and Hae Jin Kim</p> <p>Department of Materials Science and Engineering, Myongji University</p> |
| SP-096 | <p>Analog Resistive Switching Behavior Realized through Oxygen Vacancy Engineering in $\text{TiO}_x/\text{Al}_2\text{O}_3$ Bilayer Oxides</p> <p>Minsu Kim, SuA Han, and Hae Jin Kim</p> <p>Department of Materials Science and Engineering, Myongji University</p> |
| SP-097 | <p>적층형 인쇄 전자 소자 제작을 위한 용액공정 조건 확립</p> <p>김영민¹, 문현우¹, 정금성¹, 양윤숙^{1,2}, 김우영^{1,2}</p> <p>¹제주대학교 전자공학과, ²제주대학교 반도체디스플레이연구센터</p> |



2026-01-27(화), 13:00~18:00
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ZONE1 (4층, 로비)

[SP] 학부생포스터세션

E. Compound Semiconductors 분과

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| SP-098 | <p>Heteroepitaxial Growth of High-Quality (100) Single-Crystal Diamond Assisted by SiO₂ Nanospheres</p> <p>Min Yoon, Taemyung Kwak, Jeong Ju-cheol, Geunho Yoo, and Okhyun Nam Department of Nano-Semiconductor Engineering, Tech University of Korea</p> |
| SP-099 | <p>Double Epitaxial 구조에 따른 4.5 kV Trench SiC JBS 다이오드의 전기적 특성 분석</p> <p>박가영¹, 김상엽², 최수빈¹, 백두산², 정승완², 석오균¹ ¹부산대학교 전기전자공학부, ²부산대학교 전기전자공학과</p> |
| SP-100 | <p>P-Base Tilt Implant를 적용한 1.2 kV SiC MOSFET의 중이온 조사 내성 향상</p> <p>최수빈¹, 김상엽², 백두산², 정승완², 박가영¹, 석오균¹ ¹부산대학교 전기전자공학부, ²부산대학교 전기전자공학과</p> |
| SP-101 | <p>SiC MOSFET 칩 표면의 구역별 열 분포 및 발열 특성 분석</p> <p>류종현¹, 강규혁², 정승완², 백두산², 석오균³ ¹부산대학교 기계공학부, ²부산대학교 전기전자공학부, ³부산대학교 전기전자공학과</p> |
| SP-102 | <p>1.2kV급 SBD 내장형 SiC MOSFET의 게이트 바이어스에 따른 서지 전류 성능 분석</p> <p>박진우¹, 강규혁², 정승완², 김상엽², 석오균¹ ¹부산대학교 전기전자공학부, ²부산대학교 전기전자공학과</p> |
| SP-103 | <p>전하 균형 확보를 위해 인(P) 채널링 이온주입을 적용한 1.2kV 급 SiC Semi-Superjunction MOSFET 설계</p> <p>양승리¹, 정준기², 박수민², 백두산², 정승완², 석오균¹ ¹부산대학교 전기전자공학부, ²부산대학교 전기전자공학과</p> |
| SP-104 | <p>4H-SiC 기판 위 MOCVD로 성장한 Ga₂O₃ 박막의 C-V 특성 및 쇼트키 배리어 다이오드 제작</p> <p>Si Gwang Kim, Ju Eon Bae, Jun Ha Park, Dong Ho Lee, Seon Jin Mun, Hyung Soo Ahn, and Min Yang Department of Nano-Semiconductor Engineering, Korea Maritime & Ocean University</p> |



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| SP-105 | <p>GaN 템플릿 위 MOCVD로 성장한 Ga₂O₃ 박막의 결정상 변환 분석 Ju Eon Bae, Si Gwang Kim, Jun Ha Park, Dong Ho Lee, Seon Jin Mun, Hyung Soo Ahn, and Min Yang Department of Nano-Semiconductor Engineering, Korea Maritime & Ocean University</p> |
| SP-106 | <p>Study of 2-Dimensional Hole Gas (2DHG) Characteristics in p-(Al)GaN/AlGaIn/AlN Heterostructures Minyeong Kim, Joocheol Jeong, Shyam Mohan, Jaejin Heo, Hyogeun Cho, Mingoo Jo, and Okhyun Nam Convergence Center for Advanced Nano Semiconductor, Department of Nano-Semiconductor, Tech University of Korea</p> |
| SP-107 | <p>Tuning α-Ga₂O₃ Growth Mode via Surface Energy Modulation for High-Performance UV Photodetectors Hee Won Shin¹ and You Seung Rim^{1,2,3} ¹Department of Intelligent Mechatronics Engineering, Sejong University, ²Semiconductor Systems Engineering and Intelligent Convergence Engineering, Sejong University, ³Institute of Semiconductor and System IC, Sejong University</p> |
| SP-108 | <p>5G mmWave 응용을 위한 RF GaN HEMT 최적화 시뮬레이션 연구 이희우¹, 이강희², 이석균² ¹아주대학교 전자공학과, ²아주대학교 지능형반도체공학과</p> |
| SP-109 | <p>Electrical Control of Light-Induced Synaptic Plasticity in Mechanically Exfoliated MoS₂ Thin-Film Transistors Yuchang Oh, Jaewon Shin, and Seok Daniel Namgung School of Electrical and Electronics Engineering, Chung-Ang University</p> |
| SP-110 | <p>Pulse-Doping Control of B-N Cluster Formation for n-Type Diamond via MPCVD Sangwook Park, Taemyung Kwak, Geunho Yoo, Yoonseok Nam, and Okhyun Nam Department of Nano & Semiconductor Engineering, Tech University of Korea</p> |
| SP-111 | <p>Growth Behavior of Diamond on r-Plane Sapphire Using Metal Mask-Based ELO Pattern Structures Donghyun Kyung, Taemyung Kwak, Seolyoung Oh, Yoonseok Nam, Hyunsu Ma, Min Yoon, Sangwook Park, Geunho Yoo, Jeong Ju-cheol, and Okhyun Nam Department of Nano-Semiconductor, Convergence Center for Advanced Nano Semiconductor</p> |
| SP-112 | <p>NiO/β-Ga₂O₃ 이종접합 Double-Layer 다이오드 최적화 설계에 대한 연구 김선범¹, 이태은², 우솔아^{1,2} ¹부경대학교 전자공학과, ²부경대학교 지능로봇공학과</p> |



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| SP-113 | <p>InAlAs/InGaAs HEMT에 양성자 조사에 따른 전기적 특성 및 저주파 잡음 열화 분석 이주형¹, 반선호¹, 염지훈¹, 김유미², 손승우³, 김대현³, 권혁민¹ ¹한경국립대학교 전자전기공학부 전자공학전공, ²한국원자력연구원, ³경북대학교 IT대학 전자공학부</p> |
| SP-114 | <p>Evolution and Future Perspectives of HfO₂-Based FeFET Minji Hong and Mingyu Sang Department of Electronic Engineering, Gachon University</p> |



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[SP] 학부생포스터세션

G. Device & Process Modeling, Simulation and Reliability 분과

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| SP-129 | <p>Enhancement of Ion/Ioff Ratio in a 20 nm Gate Length Bcat Structure by Tuning Various Module Target Specs Using TCAD Simulation</p> <p>Soo Young Park Soongsil University</p> |
| SP-130 | <p>Analysis of Silicide Formation and Resistance as a Function of Ti Thickness and Annealing Temperature</p> <p>Hyekyo Kim, Seoyoung Kim, Hyeonseok Song, Seonghoon Lee, and Seulki Hong Department of Semiconductor Engineering, Seoul National University of Science & Technology</p> |
| SP-131 | <p>Development and Characteristic Prediction of a Nanosheet FET Artificial Neural Network Model Utilizing a MATLAB-Based GUI</p> <p>Jun Hyeong Lee^{1,2}, Ji ho Hyun^{1,2}, and Yun Seop Yu^{1,2} ¹Major of Semiconductor Engineering Hankyong National University, ²Major of ICT & Robotics Engineering, Hankyong National University</p> |
| SP-132 | <p>Threshold Voltage Prediction of In2O3 TFTs via Unified Parameter Set Modeling based on Multi-Condition Fitting</p> <p>Minkyung Seo, Jaemin Kim, Sunwoo Jeong, Hyeongjun Jang, and Changwook Jeong UNIST</p> |
| SP-133 | <p>A System-Level Analysis of Key Parameters in Peptide-Based Memristors for In-Memory Computing</p> <p>Jun Ha Park¹, Jeong Hyun Yoon², and Min-Kyu Song¹ ¹School of Electrical Engineering, Korea University, ²School of Integrated Technology, Yonsei University</p> |
| SP-134 | <p>Theoretical Mobility Analysis through Self-Consistent Schrödinger-Poisson Solver Implementation</p> <p>Hyeonmo Hwang, Jongheon Lee, Hyeongjun Jang, and Changwook Jeong UNIST</p> |
| SP-135 | <p>Improving Low-Temperature Ferroelectricity by Suppressing Bottom TiO₂ Formation with an SiO₂ Capping Layer</p> <p>Doh Won Kim, Sang Jae Kim, Hyo Young Park, Changyoung Song, Hyeokjun You, and Sihyun Kim Department of Electronic Engineering, Sogang University</p> |



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| SP-136 | Quantum-Limit Contact Resistance in 2D Semiconductors Predictions Jongheon Lee, Hyeonmo Hwang, Hyeongjun Jang, Ilun Kim, and Changwook Jeong UNIST |
| SP-137 | Nanosheet FETs with an Inner Spacer Barrier for Suppression of Substrate Parasitic Effects and Punch-Through Yeon-Seok Lee, Eui-Cheol Yun, Hyo-Jun Park, and Jun-Young Park School of Semiconductor Engineering, Chungbuk National University |
| SP-138 | GIDL을 활용한 Floating Gate 제어 기반 FinFET의 Multi Vt 동작 구현 윤용노, 선태민, 홍슬기 서울과학기술대학교 지능형반도체공학과 |
| SP-139 | Design of Multi-Threshold Voltage Transistors via Channel Region Segmentation Tae Min Sun, Yong No Yoon, and Seul Ki Hong Seoul National University of Science & Technology |
| SP-140 | Research on the Performance of IGZO Based Source-Gated Transistors with UV Sensors Hyunmin Joo ¹ , Hyunsoo Kim ² , Won Suk Oh ² , Kyusun Han ² , and Hongseok Oh ^{1, 2} ¹ Department of Physics, Soongsil University, ² Department of Intelligent Semiconductor, Soongsil University |
| SP-141 | Performance Optimization of 3D Ferroelectric Flash Memory through S/D Recess Engineering Using TCAD Simulation 남서현, 조성호, 김장생 서강대학교 전자공학과 |
| SP-142 | Analysis of Signal Distortion in RRAM Crossbar Arrays Caused by Process-Induced Line Resistance Variation Geun-Tak Lim and Tae-Hyeon Kim Seoul National University of Science & Technology |
| SP-143 | CMOS-Compatible Backside Fabrication Scheme for 4F² DRAM Donghyeon Kim, Yoonwoo Choi, Geonu An, and Jaehyun Lee School of Electrical and Electronics Engineering, Pusan National University |



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| SP-144 | <p>Ion Implantation 및 RTA 공정에 따른 전기적 영향의 머신 러닝 분석 안휘, 최백룡, 권태진, 권혁주 송실대학교 전자정보공학부</p> |
| SP-145 | <p>단일 카메라 기반 저심도 물리 거리 측정 시스템 개발(Efficient Monocular Depth-Based Physical Distance Measurement for Low-Depth Scales) 문경돈¹, 조선민², 최재연² ¹서강대학교 전자공학과, ²서강대학교 물리학과</p> |
| SP-146 | <p>Wrap-Around Contact Formation for High-Performance 4F² DRAM Minju Kim¹, Donghyeon Kim¹, Sehoon Jung¹, Hyeok Je Jeong², Chai Rok Lim², Gi Yeol Yun², and Jaehyun Lee¹ ¹School of Electrical and Electronics Engineering, Pusan National University, ²Taesung Environmental Research Institute Co., Ltd.</p> |
| SP-147 | <p>Design Optimization of MIFIS FeFETs for Enhanced Memory Window : A TCAD Simulation Study on the Role of G.I.L Thickness and Interfacial Charge Trapping Jaehyuck Cha¹, Ho Seo², Wonseob Shin², Jehyeok Jung¹, and Sihyun Kim¹ ¹Department of Electronic Engineering, Sogang University, ²Department of Physics, Sogang University</p> |
| SP-148 | <p>Ising Model-Based Monte Carlo Simulation Modeling for Fractional Coverage and Selectivity Prediction in Area Selective ALD 이동규, 이태영, 이지민, 황서영, 김보성 고려대학교 세종캠퍼스 반도체물리학과</p> |
| SP-149 | <p>TCAD-Based Analysis and Suppression of Coupling Effects in 3D-Stackable 2T0C DRAM Using Electrostatic Shielding Giung Kim¹, Yongwoo Ryu², Gyuheon Bae², Youngjoon Lee³, Dae Hwan Kang^{1, 2}, and Changwook Jeong³ ¹Department of Semiconductor Engineering, ²Graduate School of Semiconductor Technology, POSTECH, ³Graduate School of Semiconductor Materials and Devices Engineering, UNIST</p> |
| SP-150 | <p>Performance Optimization of 2T-nC FeRAM via NLS-Based Compact Ferroelectric Modeling Hyunwu Yoo, Jaewoog Jung, and Hyunwoo Kim Department of Electrical and Electronics Engineering, Konkuk University</p> |
| SP-151 | <p>Improving the Short Channel Effect Using Concave Channel with Dual Material Gate in MOSFET 정규성^{1,2}, 강대웅¹ ¹서울대학교 차세대반도체융합대학, ²중앙대학교 전자전기공학부</p> |



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| SP-152 | <p>Selective AlN-Assisted Thermal Design for Self-Heating Mitigation in Nanosheet FETs</p> <p>Jung Yeon Nam¹, Ha Yeong Byeon¹, Tae Young Yoon², Jang Hyun Kim^{1,2}, and Junseok Heo^{1,2}</p> <p>¹Department of Electrical and Computer Engineering, Ajou University, ²Department of Intelligence Semiconductor Engineering, Ajou University</p> |
| SP-153 | <p>자가 정렬형 매립 게이트 및 돌출 소스-비대칭 MOSFET을 이용한 Short Channel Effect 개선</p> <p>박준영^{1,2}, 강대웅¹</p> <p>¹서울대학교 차세대반도체융합대학, ²중앙대학교 화학신소재공학부</p> |
| SP-154 | <p>Comparative Electro-Thermal Analysis of CFET Structures with Frontside BPR and Backside BSC Configurations</p> <p>JiSung Lee¹, JoHyeon Kim², Jaehoon Yoon³, and Jongwook Jeon⁴</p> <p>¹Department of Electronic Engineering, Chungnam National University, ²Department of Semiconductor Convergence Engineering, Sungkyunkwan University, ³Department of Electrical and Electronics Engineering, Konkuk University, ⁴Department of Electrical and Computer Engineering, Sungkyunkwan University</p> |
| SP-155 | <p>Analysis of Double-Sided Row Hammer Mechanism in 3D BCAT-Based DRAM</p> <p>Jigwang Kim, Hansol Kim, Jisung Im, Taeseong Kwon, Jinsu Kim, Wonjun Song, Hojin Moon, Jahyun Gu, Doyeon Park, Eunjeong Jang, Hyeontae Yun, and Sung Yun Woo</p> <p>School of Electronic and Electrical Engineering, Kyungpook National University</p> |
| SP-156 | <p>Comparative Compact Modeling of FeFETs for Memory Application: Landau-Khalatnikov, Preisach, and NLS Approaches</p> <p>Hae Seul Cho, Jae Woog Jung, and Hyunwoo Kim</p> <p>School of Electrical and Electronics Engineering, Konkuk University</p> |
| SP-157 | <p>Si 및 SiC 기반 상용 다이오드의 가속 신뢰성 평가 및 누설전류 거동 분석</p> <p>김환¹, 김선재¹, 류희중^{1,2}, 뷰흐영^{1,2}, 황완식^{1,2}</p> <p>¹한국항공대학교 신소재공학과, ²한국항공대학교 스마트항공모빌리티학과</p> |
| SP-158 | <p>Total Ionizing Dose Effects in Fin- and GAA-FETs</p> <p>Dongwook Heo¹, Dongwook Kim³, Hanggyo Jung², Soomin Kim³, and Jongwook Jeon⁴</p> <p>¹Department of Advanced Materials Science and Engineering, Sungkyunkwan University, ²Department of Semiconductor Convergence Engineering, Sungkyunkwan University, ³Department of Display Engineering, Sungkyunkwan University, ⁴Department of Electrical and Computer Engineering, Sungkyunkwan University</p> |



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| SP-159 | Dual-Workfunction a-Si SGT with Enhanced Drive and Early Saturation for Low Power Logic Applications Min-Hoo Gong, Sung-Min Woo, Seong-Yeon Yoon, Yuni Jee, and Joon-Seok Kim School of Electronics and Electrical Engineering, Hongik University |
| SP-160 | Electrical Characteristics of ZnON-Based TFTs with Additional Channel Deposition and Controlled Oxidation Conditions Geon Woo Choi ¹ , Gang Guk Park ¹ , Hyuk Ju An ¹ , Seung Min Lee ² , Sang Jik Kwon ¹ , Min-Kyu Park ² , and Eou-Sik Cho ^{1,2} ¹ Department of Electronic Engineering, Gachon University, ² Department of Semiconductor Engineering, Gachon University |
| SP-161 | Investigation of IGZO-Based 3D Vertical Channel Transistors and Physics-Informed Neural Network Modeling for Next-Generation DRAM Wonbin Lee ¹ , Minje Park ¹ , and Saeroonter Oh ² ¹ Department of Electronic and Electrical Engineering, Sungkyunkwan University, ² Department of Semiconductor Convergence Engineering, Sungkyunkwan University |
| SP-162 | Analytical Modeling of Fringe Capacitance Considering Dual-k Spacer for GAA-NS FETs and Its Impact on RC Delay Jea Won Choi and Hyoun Sik Yang Department of Physics, Yonsei University |



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H. Display and Imaging Technologies 분과

| | |
|--------|---|
| SP-163 | <p>Thickness-Dependent Threshold Voltage Control of a-IGZO Thin-Film Transistors: A Comparison between Xenon Flash Lamp Annealing and Conventional Thermal Annealing</p> <p>Hyuk Ju Ahn¹, Yun Hyeok Jeong², Sungjin Park², Jisu Kim¹, Sang Jik Kwon¹, Min-Kyu Park², and Eou-Sik Cho^{1,2}</p> <p>¹Department of Electronic Engineering, Gachon University, ²Department of Semiconductor Engineering, Gachon University</p> |
| SP-164 | <p>A Single-Step Fabrication and Debonding Process for High-Performance Flexible and Transparent a-IGZO TFTs</p> <p>SeYoon Jeon¹, Ji Won Woo¹, Minsu Kim³, Yun Hyeok Jeong², Sang Jik Kwon¹, Min-Kyu Park², and Eou-Sik Cho^{1,2}</p> <p>¹Department of Electronic Engineering, Gachon University, ²Department of Semiconductor Engineering, Gachon University, ³Department of Materials Science and Engineering, Gachon University</p> |
| SP-165 | <p>Electrical and Optical Characteristics of Indium-Free ZnON TFTs with AZO-Ag-AZO Transparent Electrodes</p> <p>Dong Hyeon Kim¹, Dong Beom Lee¹, Joo Hyun Jeong², Yun Hyeok Jeong², Sang Jik Kwon¹, Min-Kyu Park², and Eou-Sik Cho^{1,2}</p> <p>¹Department of Electronic Engineering, Gachon University, ²Department of Semiconductor Engineering, Gachon University</p> |
| SP-166 | <p>Guided-Mode Resonance in 1D Grating Structure Formed on Si Thin Film</p> <p>Sungbeom Lee¹, Jinhong An¹, Hyun Hong², Eunsol Cho², and Byoung-Ho Cheong²</p> <p>¹Department of Display and Semiconductor Physics, Korea University, ²Department of Applied Physics, Korea University</p> |
| SP-167 | <p>Simulation Study of Sidewall Engineering in GaN-Based Blue Micro-Light-Emitting Diodes</p> <p>Sangjin Yu¹, Yeonbin Kang², and Dae-Myeong Geum^{1,2}</p> <p>¹Department of Electrical and Electronic Engineering, Inha University, ²Department of Electrical and Computer Engineering, Inha University</p> |
| SP-168 | <p>단일 이미지 기반 초해상도 딥러닝 모델 성능 비교</p> <p>원빈, 문창빈, 강석주</p> <p>서강대학교 전자공학과</p> |



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| SP-169 | <p>Crystallinity Analysis of Laser-Treated Amorphous Silicon Films Jin-Hong An¹, Sung-Beom Lee¹, Hyun Hong², Eun-Sol Cho², and Byoung-Ho Cheong² ¹Department of Display and Semiconductor Physics, Korea University, ²Department of Applied Physics, Korea University</p> |
| SP-170 | <p>E-spun Ferroelectric PVDF Photodetectors Doped with Cs₂SnBr₆ Perovskite Gi Beom Lim¹, Han Min Kim¹, Hyeon Bin Jo², Yun Sung Lee², and Sung Hun Jin¹ ¹Department of Information Display, Kyung Hee University, ²Department of Intelligent Semiconductor Engineering, Incheon National University</p> |
| SP-171 | <p>Investigation on Origin of Negative Photo-Conductance in Single Walled Carbon Nanotube/ Copper-Iodide Heterostructure Devices So Yeon Jeon¹, Han Min Kim², Hyeon Bin Jo¹, Yun Sung Lee², and Sung Hun Jin¹ ¹Department of Information Display, Kyung Hee University, ²Department of Intelligent Semiconductor Engineering, Incheon National University</p> |
| SP-172 | <p>Optimization of SA-UDA Composition in Shape Memory Polymer Stamps for Reliable Micro-Transfer Printing of μ-LEDs Mingi Chai¹, Hyun Tak¹, and Youngmin Kim¹ ¹School of Materials Science and Engineering, Kookmin University</p> |
| SP-173 | <p>Initiated CVD-Gate Dielectric Dependency on Hysteresis Behaviors in Single Walled Carbon Nanotubes Thin Film Transistors Su Yeon Son¹, Yun Sung Lee², Han Min Kim², Hyeon Bin Jo¹, and Sung Hun Jin¹ ¹Department of Information Display, Kyung Hee University, ²Department of Intelligent Semiconductor Engineering, Incheon National University</p> |
| SP-174 | <p>Electrospun PVDF Photodetectors Doped with Cs₂SnI₆ Perovskites for Reservoir Computing Applications Chae Hyun Ryu¹, Han Min Kim², Yun Sung Lee², Hyeon Bin Jo¹, and Sung Hun Jin¹ ¹Department of Information Display, Kyung Hee University, ²Department of Intelligent Semiconductor Engineering, Incheon National University</p> |
| SP-175 | <p>CMOS 기반 플래시 LiDAR 센서의 In-Pixel Zoom Histogramming TDC 설계 및 특성 분석(A CMOS Flash LiDAR Sensor with In-Pixel Zoom Histogramming Time-to-Digital Converters) 정창식, 이철민, 홍태규, 박현우 서강대학교 전자공학과</p> |
| SP-176 | <p>Analysis of Short-Channel Effects on IGZO Thin-Film Transistors Seung Wook Ha¹, Jonghyun Yun², Sungmin Park³, Su Bo Lee², Gil Ju Lee³, and Yoonki Hong³ ¹School of Optics and Mechatronics Engineering, Pusan National University, ²Department of Electrical and Electronics Engineering, Pusan National University, ³School of Electrical and Electronics Engineering, Pusan National University</p> |



SP-177

Dimension-dependent Characteristics of IGZO TFTs Using Outside-Gated Probe-Based TLM Method

Yeongjin Lee¹, Jonghyun Yun², Sungmin Park³, Su Bo Lee², Gil Ju Lee³, and Yoonki Hong³

¹School of Electrical and Electronics Engineering, Electrical Engineering Major, Pusan National University, ²Department of Electrical and Electronics Engineering, Pusan National University, ³School of Electrical and Electronics Engineering, Pusan National University



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I. MEMS & Sensors Systems 분과

| | |
|--------|---|
| SP-178 | Stretchable, Self-Adhesive PEDOT:PSS-PDMS Composites Enabled by PEIE for Epidermal Biopotential Monitoring Sung Min Bae ¹ , Dong Jin Lee ³ , and Dae Yu Kim ^{1,2,3,4} ¹ Department of Electrical and Electronic Engineering, College of Engineering, Inha University, ² Department of Electrical and Computer Engineering, College of Engineering, Inha University, ³ Center for Sensor Systems, Inha University, ⁴ Inha Research Institute for Aerospace Medicine, Inha University |
| SP-179 | Paper-Based Laser-Induced Graphene Electrode for Non-Enzymatic Uric Acid Detection Jueun Park, Yunhoe Koo, Ji Min Kim, and A-Rang Jang Division of Electrical, Electronic and Control Engineering, Kongju National University |
| SP-180 | PEDOT:PSS Fiber-Based Dual-Gate Sensor for pH-Tuned Selective Copper Detection in Marine Environment Minseo Park and Eun Kwang Lee School of Chemical Engineering, Pukyong National University |
| SP-181 | Mixed-Gas Identification Using Silicon FET-Based Gas Sensors and Machine Learning Cheoljin Park ¹ , Jaehyeon Kim ¹ , Jong-Ho Lee ¹ , and Gyuweon Jung ^{1,2} ¹ Department of Electrical and Computer Engineering and Inter-university Semiconductor Research Center, Seoul National University, ² School of Transdisciplinary Innovations, Seoul National University |
| SP-182 | In-Sensor Motion Detection based on Decaying Dynamics in ITZO Optical Synaptic Devices Yeong-In Kim ¹ , Jaewon Shin ² , Seok Daniel Namgung ² , and Min-Kyu Song ¹ ¹ School of Electrical Engineering, Korea University, ² School of Electrical and Electronics Engineering, Chung-Ang University |
| SP-183 | Optical Synaptic Thin-Film Transistor based on Polymeric Surface Treatment under DNTT Channel Suhyeon Kim ¹ , Seungme Kang ² , and Hocheon Yoo ² ¹ Department of Electrical Engineering, Sookmyung Women's University, ² Department of Electronic Engineering, Hanyang University |



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| SP-184 | <p>Tunable Transition between Anti-Ambipolar and N-Shaped NTC Characteristics in Split-Gate Heterojunction Transistors</p> <p>Taejun Ohm¹, Jaechan Song², and Hocheon Yoo^{2,3}</p> <p>¹Department of Electrical and Electronic Engineering, Inha University, ²Department of Artificial Intelligence Semiconductor Engineering, Hanyang University, ³Department of Electronic Engineering, Hanyang University</p> |
| SP-185 | <p>생분해성 마이크로니들을 이용한 장기 특이적 약물전달 기술</p> <p>Chan young Choi and Yoonseok Park</p> <p>Department of Materials Science and Engineering, Kyung Hee University</p> |
| SP-186 | <p>High-Resolution Motion Recognition Using a High-Performance TENG-Based JMTQS for Human-Robot Interaction and Remote Control</p> <p>Minseo So¹, Seho Cho¹, Chaerin Han³, Jaeseok Kim¹, Dahee Jeong¹, Jamyong Lee¹, Gyeongmin Lee¹, Sungwoo Jang¹, Hyunjoo Hwang², Dongjun Min¹, Seokhhyun Han², Myeungsoung Kim², Jihun Lee², and Seung-Eon Ahn^{1,2}</p> <p>¹Department of Nano & Semiconductor Engineering, Tech University of Korea, ²Department of IT · Semiconductor Convergence Engineering, Tech University of Korea, ³Department of Advanced Materials Engineering, Tech University of Korea</p> |
| SP-187 | <p>A Wearable CNT/PDMS Sensing System Integrated with Deep Learning for Sign Language Recognition</p> <p>Jaeseok Kim¹, Dahee Jeong¹, Minseo So¹, Seho Cho¹, Chaerin Han³, Jihun Park¹, Kiwoong Son¹, Seotae An¹, Wonwoo Kho², Hyunjun Kim¹, Narim Lee¹, Seokhyun Han², Jihun Lee², and Seung-Eon Ahn^{1,2}</p> <p>¹Department of Nano & Semiconductor Engineering, Tech University of Korea, ²Department of IT · Semiconductor Convergence Engineering, Tech University of Korea, ³Department of Advanced Materials Engineering, Tech University of Korea</p> |
| SP-188 | <p>Hydrogen Gas Sensor Using Graphene/Semiconductor Heterojunctions Decorated With Pd NPs</p> <p>Jongyun Jeong and Woo jong Yu</p> <p>Department of Electrical and Computer Engineering, Sungkyunkwan University</p> |
| SP-189 | <p>Metal Mesh Ultrasound Triboelectric Nanogenerator for Optimal Energy Harvesting Property</p> <p>Ki-Yoon Park^{1,2} and Hong-Joon Yoon^{1,2}</p> <p>¹Department of Semiconductor Engineering, Gachon University, ²Department of Electronic Engineering, Gachon University</p> |
| SP-190 | <p>Bioimpedance-Based Wound Healing Monitoring System Using a Suction-Cup-Inspired Patch</p> <p>JiYou Jung and Yoonseok Park</p> <p>Department of Materials Science and Engineering, Kyung Hee University</p> |



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| SP-191 | Dual-Probe Nano-Structured Pt Resistance Temperature Detectors 이지원 ¹ , 김수영 ^{2,3} , 김대주 ² , 조제희 ^{1,2,3} ¹ 전북대학교 반도체과학기술학과, ² 전북대학교 반도체화학공학부, ³ 전북대학교 반도체물성연구소 |
| SP-192 | UVtron, SiC, Ga₂O₃ 기반 자외선 화염 센서의 특성 비교 서정호 ¹ , 김선재 ¹ , 류희중 ^{1,2} , 황완식 ^{1,2} ¹ 한국항공대학교 신소재공학과, ² 한국항공대학교 스마트항공모빌리티학과 |
| SP-193 | 유리 분말 재활림 공정을 이용한 유리 구조 제작 채건 ¹ , 박진영 ² , 최재빈 ² , 이승기 ^{1,2} , 박재형 ^{1,2} ¹ 단국대학교 융합반도체공학과, ² 단국대학교 파운드리공학과 |
| SP-194 | Aqueous, Flux-Free Eco Friendly Paste Enabled by Photoactivation and Micro-Alloying Jinsu Park, Seongu Kim, Lurong Yang, Hyejun Kim, Junghoon Lee, Yeonjae Yang, Chengwen Wang, and Jeonghyun Kim Department of Electronic Convergence Engineering, Kwangwoon University |
| SP-195 | Magnetically Reconfigurable Mechanical Logic Gate and Its Implementation toward a Mechanical FPGA System Dongkyu Jeong, Jeongmin Yoo, Gooyoon Chung, and Yoonseok Park Department of Materials Science and Engineering, Kyung Hee University |
| SP-196 | Hydrogen Sensing Characteristics of Pd-SWCNT under Various Conditions Sang Jun Park ¹ , Myeong Hoon Lee ¹ , Beom Joon Jung ² , and Young Lae Kim ¹ ¹ Department of Electronic and Semiconductor, Gangneung-Wonju National University, ² Department of Electronic Engineering, Gangneung-Wonju National University |
| SP-197 | Ambient-Condition NO_x Detection System via ZnO-Carbon Nanotube Hybrid Sensors Kyung Eun Kim ¹ , Min Hyeok Yang ² , Jae Hyeon Kim ² , Ha Jeong Jeon ² , and Young Lae Kim ² ¹ Department of Electronic Engineering, Gangneung-Wonju National University, ² Department of Electronic and Semiconductor Engineering, Gangneung-Wonju National University |
| SP-198 | Optical Motion Tracking via Photodetector Arrays for Adaptive Metastructures Gyuri Shin and Yoonseok Park Department of Materials Science and Engineering, Kyung Hee University |



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| SP-199 | Enhanced Nitrogen Dioxide Sensing via Lithium-Ion Deposited SWCNT Nanostructures Jae Hyeon Kim ¹ , Beom Joon Jung ² , and Young Lae Kim ¹ ¹ Department of Electronic and Semiconductor Engineering, Gangneung-Wonju National University, ² Department of Electronic Engineering, Gangneung-Wonju National University, ³ Department of Electronic Engineering, Gachon University |
| SP-200 | Wearable Sweat Sensor with a Porous Active Thermal Layer for Enhanced Signal Repolarization and Amplification Junseok Lee ¹ , Doohyun J. Lee ² , Ki Jun Yu ² , and Mingyu Sang ² ¹ Department of Biomedical Engineering, Gachon University, ² School of Electrical and Electronic Engineering, Yonsei University |
| SP-201 | Piezoelectric Wearable Strain Sensor with Al₂O₃/P(VDF-TrFE) Thin Film Hyosang Yoon, Minji Hong, and Mingyu Sang Department of Electronic Engineering, Gachon University |
| SP-202 | Breathprint Analysis for Respiratory Disease Monitoring Using a Hybrid Gas Sensor Array Junseok Lee ¹ , Yena Lee ² , and Mingyu Sang ² ¹ Department of Biomedical Engineering, Gachon University, ² Department of Electronic Engineering, Gachon University |
| SP-203 | Alkylamine-Functionalized Graphene Quantum Dots for Efficient Quantum Dots Light-Emitting Diodes Dong Geun Han, Yeseul Lim, and Minsu Park Department of Polymer Science and Engineering, Dankook University |
| SP-204 | Long-Lived Room-Temperature Phosphorescence of Graphene Quantum Dots Embedded in Polymer Matrix Taesik Eom, Daeyoung Kim, and Minsu Park Department of Polymer Science and Engineering, Dankook University |
| SP-205 | A Multi-Electrode US-TENG with an Optimized Half-Wave Rectifier for Implantable Medical Devices 박기윤 ¹ , 정종훈 ² , 김윤성 ¹ , 이주열 ² , 윤홍준 ³ ¹ 가천대학교 전자공학과, ² 가천대학교 시스템반도체학과, ³ 가천대학교 반도체공학과 |



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J. Nano-Science & Technology 분과

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| SP-206 | High-Responsivity TeOx/p-Si Photodiodes Enabled by Two-Dimensional Tellurium Electrodes Serim Oh ¹ and Byungjin Cho ^{1,2} ¹ Department of Advanced Materials Engineering, Chungbuk National University, ² Department of Urban, Energy, and Environmental Engineering, Chungbuk National University |
| SP-207 | Highly Durable Neuromorphic Synaptic Transistors Enabled by C-Axis Aligned Crystalline InGaZnO Jeongwoo Kim ¹ and Byungjin Cho ^{1,2} ¹ Department of Advanced Materials Engineering, Chungbuk National University, ² Department of Urban, Energy, and Environmental Engineering, Chungbuk National University |
| SP-208 | Truly Form-Factor-Free Industrially Scalable System Integration for Electronic Textile Architectures with Multifunctional Fiber Devices Taewook Kang, Hyeongseok Kim, Jiae Jung, Hyeonyeong Cho, and Sanghyo Lee Department of Materials Science and Engineering, Kumoh National Institute of Technology |
| SP-209 | Solution-Processed Patterning and Characterization of ZnO-Based Memristors Using Zinc Acrylate Precursors Yong-Wook Jeong ^{1,2} , Tae Kyu An ^{1,2} , and Yong Jin Jeong ^{1,2} ¹ Department of Polymer science & Engineering, Korea National University of Transportation, ² Department of Materials Science & Engineering, Korea National University of Transportation |
| SP-210 | WS₂ FET의 금속/반도체 계면 O₂ 플라즈마를 통한 접촉 특성 향상 이정훈 ¹ , 서동현 ³ , 김태완 ^{2,3} ¹ 서울시립대학교 전자전기컴퓨터공학부, ² 서울시립대학교 첨단융합학부, ³ 서울시립대학교 지능형반도체학과 |
| SP-211 | Strain-Engineered Nanogap Control on Stretchable Substrates for Surface Enhanced Raman Spectroscopy Ji Eun Han, Ji Hyo Lim, Geon Park, Joo Hyung Ham, Jun Ho Choi, Seung Hyeon Park, and Khang June Lee Department of Semiconductor Engineering, University of Suwon |



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| SP-212 | <p>Anchoring Effect of Polymer-Wrapped CNT via Self-Assembled Molecules on Transistor Performance</p> <p>Jin Kim¹, Sanghyeon Park³, Seyoung Oh^{1,2}, Yujung Kim^{1,2}, Bogyu Lim³, and Byungjin Cho^{1,2}</p> <p>¹Department of Advanced Materials Engineering, Chungbuk National University, ²Department of Urban, Energy, and Environmental Engineering, Chungbuk National University, ³Department of Materials Science and Engineering, Chungbuk National University</p> |
| SP-213 | <p>Low Voltage Operating Self-Rectifying Resistive Memory with Ferroelectric Polymer-MXene Nanosheet Blends</p> <p>Seungjae Choi¹ and Beomjin Jeong²</p> <p>¹School of Organic Material Science Engineering, Pusan National University, ²School of Chemical Engineering, Pusan National University</p> |
| SP-214 | <p>Investigation of Trap-Induced Threshold Voltage Instabilities in MoS₂ Thin-Film Transistor under Electrical and Optical Stress</p> <p>Ji Hyo Lim, Geon Park, Joo Hyung Ham, Ji Eun Han, Choi Jun Ho, Park Seung Hyeon, and Khang June Lee</p> <p>Department of Semiconductor Engineering, University of Suwon</p> |
| SP-215 | <p>Signal Modulation and MIMO RF Applications Enabled by Vector-Matrix Multiplication Using Oxidized MoS₂-Based RRAM</p> <p>Juho Son¹, Changwoo Pyo², Sungmoon Park², and Myungsoo Kim^{1,2}</p> <p>¹Department of Electrical Engineering, UNIST, ²Graduate School of Semiconductor Materials and Devices Engineering, UNIST</p> |
| SP-216 | <p>Electrochemically Transparent Gas Sensor based on Reverse-Transferred Pd-Functionalized Graphene</p> <p>JiHyeok Choi¹, Hangeol Choi¹, Junyoung Jung², Geonhee Lee³, and A-Rang Jang¹</p> <p>¹Division of Electrical, Electronic and Control Engineering, Kongju National University, ²Department of Electrical and Computer Engineering, Texas A&M University, ³R&D Group, Simmtech</p> |
| SP-217 | <p>Characterization of WSe₂ FETs via WO_x Layer Engineering</p> <p>Gwanwoo Kim, Tran Van Duc, Dinh Le Thao Nhi, Gun Won Seo, Hojun Kim, and Min Sup Choi</p> <p>Department of Materials Science and Engineering, Chungnam National University</p> |
| SP-218 | <p>AI-Based Image Analysis and Correlation with Electrical Optical Properties of Oxidized MoS₂</p> <p>Sungyong Park¹, Jiwon Sung¹, Dahyeon Kim¹, Jiyeon Kim¹, Seok Joon Yun², and Hyunjin Ji¹</p> <p>¹Department of Electrical, Electronic and Computer Engineering, University of Ulsan, ²Department of Semiconductor Physics and Engineering, University of Ulsan</p> |
| SP-219 | <p>Engineering Selected-Channel Polarity with Photoelectroactive Doping in Single-Gate van der Waals Transistors</p> <p>Sang Hyun Lee¹, Hyeonbin Seo¹, Joo-Sung Kim², and Seyoung Oh¹</p> <p>¹Division of Electrical Engineering, Hanyang University ERICA, ²TESCAN KOREA Co., Ltd.</p> |



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| SP-220 | Thickness-Dependent Optical and Electrical Characteristics of Laser-Thinned WSe₂ for Tunable 2D Optoelectronic Devices Geonwoo Kang, Yujin Sagong, and Seok Daniel Namgung School of Electrical and Electronics Engineering, Chung-Ang University |
| SP-221 | Lignin-Mediated Carrier Concentration Enhancement in CVD-Grown MoS₂ Monolayer Field-Effect Transistors Cheol Ho Lee ¹ , Hyung Su Kim ¹ , Do Hyeon Kim ¹ , Chan Kwon ² , Mun Seok Jeong ² , and Hyun Jeong ¹ ¹ Department of Semiconductor and Electronic Engineering, Daegu University, ² Department of Physics, Hanyang University |
| SP-222 | Thermoelectric Property Investigation of Te-Based Nanostructures Synthesized Under Different Stirring Conditions in Hydrothermal Processes Ji Woo Kim, Yong-Wook Jeong, and Yong Jin Jeong Department of Materials Science & Engineering, Korea National University of Transportation |
| SP-223 | Enhanced Performances of Oxide Thin-Film Transistors by Introducing Overcoating Layers from Zinc Acrylate/Tin Ethylhexanoate Precursors Miso Shin ^{1,2} , Seong Woo Jo ^{1,2} , Yong-Wook Jeong ^{1,2} , and Yong Jin Jeong ^{1,2} Department of Polymer Science & Engineering, Korea National University of Transportation ¹ , Department of Materials Science & Engineering, Korea National University of Transportation ² |
| SP-224 | Study on Thermally Evaporated Binary Metal Halide CuBr Thin Films for Reliable Resistive Switching Applications Dong-Hyun Kim ¹ , Young-Seok Song ¹ , and Tae-Wook Kim ^{1,2} ¹ Department of Flexible and Printable Electronics, LANL-JBNU Engineering Institute-Korea, Jeonbuk National University, ² Department of JBNU-KIST Industry-Academia Convergence Research, Jeonbuk National |
| SP-225 | Stretchable Organic-Inorganic Hybrid Electrodes for On-Skin Sensing Hyuna Kim ¹ and Sungjun Park ^{1,2} ¹ Department of Electrical and Computer Engineering, Ajou University, ² Department of Intelligence Semiconductor, Ajou University |



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| SP-228 | Organic Electrochemical Transistor Array for Physical Unclonable Function Driven by Dynamic Ionic-Electronic Variability Wonseok Shin ¹ , Inho Lee ² , Jonghyun Won ² , Namhee Kim ¹ and Sungjun Park ^{1,2} ¹ Department of Electrical and Computer Engineering, Ajou University, ² Department of Intelligence Semiconductor Engineering, Ajou University |
| SP-229 | High-Performance Vertical Organic Electrochemical Transistors for Sensitive and Stable Glucose Monitoring Namhee Kim ¹ , Inho Lee ² , Jonghyun Won ² , Wonseok Shin ¹ , and Sungjun Park ^{1,2} ¹ Department of Electrical and Computer Engineering, Ajou University, ² Department of Intelligence Semiconductor Engineering, Ajou University |
| SP-230 | Ternary Structure Organic Photodetectors Achieving High External Quantum Efficiency in Short-Wavelength Infrared Region Seunghun Lee ¹ , Jae-Hyun Kim ¹ , Jaebin Jeong ¹ , and Sungjun Park ^{1,2} ¹ Department of Intelligence Semiconductor Engineering, Ajou University, ² Department of Electrical Engineering, Ajou University |
| SP-231 | Performance Benchmarking of 2D-Based FETs With Fully-Gated, Carbon Nanotube, and Mirror Twin Boundary Architectures Jiwon Yoo ¹ , Hanggyo Jung ² , Junyeol Lee ³ , and Jongwook Jeon ³ ¹ Department of Advanced Materials Science and Engineering, Sungkyunkwan University, ² Department of Semiconductor Convergence Engineering, Sungkyunkwan University, ³ Department of Electrical and Computer Engineering, Sungkyunkwan University |
| SP-232 | Fast Photoresponse in CVD-Grown Monolayer Transition Metal Dichalcogenides Enabled by UV-Ozone Treatment Daehyun Kim ¹ , Hyerim Lee ¹ , Jaeseok Ko ² , and Jung Inn Sohn ¹ ¹ Department of Physics, Dongguk University, ² School of Electronics and Electrical Engineering, Dongguk University |
| SP-233 | Evolutional Photoluminescence Behaviors in Ultraviolet-Ozone-Treated Monolayer Transition Metal Dichalcogenides Hyerim Lee ¹ , Daehyun Kim ¹ , Jaeseok Ko ² , and Jung Inn Sohn ¹ ¹ Department of Physics, Dongguk University, ² School of Electronics and Electrical Engineering, Dongguk University |
| SP-234 | Solvent Effect on Laser-Ablated Au Nanoparticle for Exothermic Hydrogel Composites Junmo Park ¹ , Jun-Gyu Choi ² , and Sungjun Park ^{1,2} ¹ Department of Intelligence Semiconductor and Engineering, Ajou University, ² Department of Electrical and Computer Engineering, Ajou University |
| SP-235 | Mechanism and Applicability of Neuromorphic Devices: Focusing on FeFETs and RRAMs Minseo Jeong, Zamyong Wang, and Joonseok Kim School of Electronics and Electrical Engineering, Hongik University |



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| SP-236 | High-Efficiency Polymer Based Phototransistor via Nanowire Structure U Seong Jin, Sang Hwa Song, Won Bae Cho, Hyung Soo Ahn, and Young Tea Chun Division of Electronics and Electrical Information Engineering, Korea Maritime & Ocean University |
| SP-237 | 셀룰로오스 나노크리스탈 기반의 전극 소재 제조 연구 이도희, 김현찬 국립금오공과대학교 기계공학부 |
| SP-238 | 2차원 물질 기반 FET의 극저온 전기적 특성 연구 변석현, 하지원, 김병훈, 최민기, 안종태 창원대학교 반도체물리학과 |



2026-01-27(화), 13:00-18:00

(공식발표시간: 16:00-18:00)

ZONE2-2 (5층, 로비)

[SP] 학부생포스터세션

K. Memory (Design & Process Technology) 분과

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| SP-239 | Exploiting Hardware Non-Idealities for Low-Precision Ensembles on Analog Compute-in-Memory Donghyuck Lee and Tae-Hyeon Kim Seoul National University of Science & Technology |
| SP-240 | Single-Ended 3T Sense Amplifiers for Amorphous Oxide Semiconductor 2T0C DRAM Seong-Jun Byun, Jeong-min Lee, and Joon-Kyu Han Department of Material Science & Engineering, Seoul National University |
| SP-241 | Improvement of Pt/Ti/HfO₂/Mo Resistive Random-Access Memory by Bottom Electrode Oxidation Wooyoung Jung ¹ and Taehwan Moon ^{1,2} ¹ Department of Electrical and Computer Engineering, Ajou University, ² Department of Intelligence Semiconductor Engineering, Ajou University |
| SP-242 | Protonic Electrochemical Random-Access Memory (ECRAM) with Improved ALD ZrO₂ Electrolyte for Neuromorphic Computing Minwoo Jeon, Gyumin Hwang, and Chuljun Lee Department of Electronic Engineering, Korea National University of Transportation |
| SP-243 | Complementary Two- and Three-Terminal Pr_{0.7}C_{0.3}MO₃ (PCMO)-Based Resistive Switching Device for Neuromorphic Computing Gyumin Hwang ¹ , Minwoo Jeon ¹ , Daeseok Lee ² , and Chuljun Lee ¹ ¹ Department of Electronic Engineering, Korea National University of Transportation, ² School of Semiconductor System Engineering, Kwangwoon University |
| SP-244 | Reservoir Computing Enabled by Multidirectional Gating in Fiber Organic Transistor Chang Min Lee and Eun Kwang Lee School of Chemical Engineering, Pukyong National University |
| SP-245 | Impact of RRAM Device Characteristics on Compute-in-Memory Accelerator Performance Analyzed with DNN+ NeuroSim Jaewon Sim and Tae-Hyeon Kim Seoul National University of Science & Technology |



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| SP-246 | <p>멀티비트 메모리 구현을 위한 강유전체 고분자 박막의 패턴 공정</p> <p>정재웅, 김민희</p> <p>국립한밭대학교 창의융합학과</p> |
| SP-247 | <p>전하 트랩 층에 생분해성 유기 분자의 혼합을 이용하여 균형 잡힌 쓰기/지우기 동작이 가능한 박막 트랜지스터 메모리</p> <p>김동인, 이종희, 김민희</p> <p>국립한밭대학교 창의융합학과</p> |
| SP-248 | <p>Implementation of Target-Modulated STDP for Synaptic Device Based Spiking Neural Networks (SNNs)</p> <p>Sarah Yoon¹, Yuna Kim², Minsu Kang², Sion Kim², Eungcheol Kim¹, Songye Lim¹, and Daeseok Lee²</p> <p>¹Department of Electronic materials Engineering, Kwangwoon University, ²School of Semiconductor System Engineering, Kwangwoon University</p> |
| SP-249 | <p>Comparison of Switching Kinetics across the Antiferroelectric Phase Transition</p> <p>Seung Yeol Pyo¹ and Taehwan Moon^{1,2}</p> <p>¹Department of Electrical and Computer Engineering, Ajou University, ²Department of Intelligence Semiconductor Engineering, Ajou University</p> |
| SP-250 | <p>Enhanced Reliability and Synaptic Modulation in Acidically Post-Treated ZnMgO/ZnO Bilayer Resistive Switching Devices</p> <p>Hee Sung Shin, Sangyeop Kim, and Jaehoon Kim</p> <p>Department of Electronic Engineering, Gachon University</p> |
| SP-251 | <p>Cryogenic Switching Behavior of Ferroelectric TiN/HZO/TiN Capacitors</p> <p>Yechan Kim, Seongbin Lee, Hyeonhong Min, Gwanghyeon Jang, and Si Joon Kim</p> <p>Kangwon National University</p> |
| SP-252 | <p>Cryogenic Performance and Reliability of IGZO Thin-Film Transistors</p> <p>Hoyoung Kim, Seongbin Lee, Hyeonhong Min, Gwanghyeon Jang, Yechan Kim, Minseop Song, Homin Lee, Insung Kim, and Si Joon Kim</p> <p>Kangwon National University</p> |
| SP-253 | <p>Array-Level Demonstration of Spiking Neural Network Using RRAM Synapse Integrated with NbO_x Neuron</p> <p>Eungchul Kim¹, Sarah Yoon¹, Yuna Kim², Minsu Kang², Sion Kim², and Daeseok Lee²</p> <p>¹Department of Electronic Materials Engineering, Kwangwoon University, ²School of Semiconductor System Engineering, Kwangwoon University</p> |



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| SP-254 | A High-Yield Vertical Floating Gate Memristor Array with Diode Characteristics for Neuromorphic System Development Min seo Kim and Woo jong Yu Department of Electrical and Computer Engineering, Sungkyunkwan University |
| SP-255 | Dual-Mode Organic Transistor with Voltage-Controlled EGOFET-OECT Switching Seong Bin Woo and Eun Kwang Lee School of Chemical Engineering, Pukyong National University |
| SP-256 | Low-A Robust Synaptic Memristor Enabled by a Low-Cost, High-Stability Bilayer Electrolyte with a SiO₂ Surface Layer Sungjun Hwang and Doowon Lee Divison of Electronics, Electrical and Control Engineering, Kongju National University |
| SP-257 | Enhanced Low-Voltage Operation of Proton-Irradiated A/N Synaptic Device with Preserved Retention Characteristics Gang Guk Park ¹ , Joon Hwang ⁴ , Sung Yun Woo ³ , Jong Ho Lee ⁴ , Sang Jik Kwon ¹ , Eou-Sik Cho ^{1,2} , and Min-Kyu Park ² ¹ Department of Electronic Engineering, Gachon University, ² Department of Semiconductor Engineering, Gachon University, ³ Department of Electronic Engineering, Kyungpook National University, ⁴ Inter-university Semiconductor Research Center, Seoul National University |
| SP-258 | Study about Electrical Characteristics of Ferroelectric NAND Heonwoo Park, Seongho Kim, Taejun Park, Jinhwan Jung, Jinhong Lee, and Sangwan Kim Department of Electronic Engineering, Sogang University |
| SP-259 | 저항성 메모리 반도체 기반 Cross-Point Array 구조 내 IR-drop과 RC-Delay에 의한 입력 전압 신호 왜곡 현상 보정 기법 김범준 ¹ , 변진호 ² , 김세영 ^{1,2,3} ¹ 포항공과대학교 반도체공학과, ² 포항공과대학교 전자전기공학과, ³ 포항공과대학교 반도체대학원 |
| SP-260 | Reliable and Energy-Efficient HfOx-Based RRAM Realized by Al₂O₃ Interlayer Optimization for Neuromorphic Applications Hyeonwoo Kim ¹ , Yunsur Kim ² , and Jiyong Woo ¹ ¹ School of Electronics Engineering, Kyungpook National University, ² School of Electronic and Electrical Engineering, Kyungpook National University |
| SP-261 | MXene/LCO-PVA -Based Dendritic Memristor Featuring Interface Engineering for Enhanced Synaptic Plasticity Seeun Kim ¹ , Eunbin Jo ¹ , Sun Ah Park ² , Hee-Joon Lee ² , and Doowon Lee ¹ ¹ Divison of Electronics, Electrical and Control Engineering, Kongju National University, ² Mirtech R&D Corporation |



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| SP-262 | 3D Flash Memory 공정 최적화: Top-View Corner Effect에 의한 메모리 성능 분석 및 SDrecess에 따른 Channel Profile 분석 김휘준, 안명진, 김장생 서강대학교 전자공학과 |
| SP-263 | Suppression of Z-Axis Grain Growth and Improvement of Memory Characteristics in HZO-FeFETs Using an Ultrathin Al₂O₃ Interlayer Je-Hyun Yoon and Tae-Hyeon Kim Seoul National University of Science & Technology |
| SP-264 | A Poly-Si Charge Trap Transistor with Dynamic Short-Term Memory for Physical Reservoir Computing Beomsu Kim ¹ , Kye-Yeong Jo ¹ , Joon Hwang ³ , Jong-Ho Lee ³ , Eou-Sik Cho ^{1,2} , and Min-Kyu Park ² ¹ Department of Electronic Engineering, Gachon University, ² Department of Semiconductor Engineering, Gachon University, ³ Inter-University Semiconductor Research Center, Seoul National University |
| SP-265 | Characterization of MIS-Type Nand Memory Devices Using Al-Doped ZrO₂ as a Charge Trap Layer Seong U Heo, Do Han Kim, Chan Hee Lee, and Hee Chul Lee Department of Advanced Materials Engineering, Tech University of Korea |
| SP-266 | Design of Cross-Point Array for AI Acceleration and Verification of Neuromorphic Computing System Seongmin Lee ¹ , Jimin Lee ¹ , Junyoung Choi ¹ , and Seyoung Kim ^{1,2} ¹ Department of Electrical Engineering, POSTECH, ² Graduate School of Semiconductor Technology, POSTECH |
| SP-267 | Rapid Cooling Effects on Ferroelectric Phase Formation in HZO for FeFET Applications Su Young Park ¹ , HyeJoo Kang ³ , Dohee Kim ² , Seung Wook Ryu ² , and Il-Kwon Oh ^{1,3} ¹ Department of Electrical and Computer Engineering, Ajou University, ² R&D Process, R&D division SK hynix Inc., ³ Department of Intelligence Semiconductor Engineering, Ajou University |
| SP-268 | IGZO TFT-Gated Electrochemical Random-Access Memory with Excellent Performance for Analog AI Computing Jonghyeok Tae ¹ , Seungkun Kim ³ , Junyoung Choi ² , Byoungwoo Lee ³ , and Seyoung Kim ^{1, 2} ¹ Department of Semiconductor Engineering, POSTECH, ² Department of Electrical Engineering, POSTECH, ³ Department of Materials Science and Engineering, POSTECH |



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| SP-269 | First Demonstration of ECRAM-Based TCAM with Excellent Performance Minho Kim ¹ , Seungmin Han ² , Hyejin Kim ² , Junyoung Choi ² , and Seyoung Kim ^{1,2} ¹ Department of Semiconductor Engineering, POSTECH, ² Department of Electrical Engineering, POSTECH |
| SP-270 | Dynamic Band-Pass Filtering based on Short-Term Memory Characteristics of TiO_x/Al₂O₃ RRAM Devices Seohyeon Son, Sungjoon Kim, and Sungmin Hwang Department of AI Semiconductor Engineering, Korea University |
| SP-271 | Oxygen-Based ECRAM with Double Electrolyte Layers for Reconciling Switching Speed and Retention Jaehun Lee ¹ , Woochan Song ² , Jeonghoon Son ² , and Seyoung Kim ^{1,2} ¹ Department of Semiconductor Engineering, POSTECH, ² Department of Electrical Engineering, POSTECH |
| SP-272 | Hardware Neuromorphic Bad Pixel Correction Using Flash Synapse and Positive Feedback Neuron Seohyun Kim ¹ , Minjeong Koo ¹ , Suyeon Park ¹ , Dongseok Kwon ² , Jong-Ho Bae ³ , and Sung Yun Woo ¹ ¹ School of Electronic and Electrical Engineering, Kyungpook National University, ² Department of Semiconductor Engineering, Gwangju Institute of Science and Technology, ³ Department of System Semiconductor Engineering, Yonsei University |
| SP-273 | Analysis of Z-Interference Mitigation through Switching WL Voltage Engineering in HCI-Based Programming Byeongjun Joo ¹ , Moonchurl Kim ² , Yewon Lee ³ , and Jongwook Jeon ¹ ¹ Department of Electrical and Computer Engineering, Sungkyunkwan University, ² Department of Display Engineering, Sungkyunkwan University, ³ SKKU Device Research Laboratory, Sungkyunkwan University |
| SP-274 | A Low-Power Charge Trap Memory-Based Synaptic Devices for Brain-Inspired Neural Network Emulation Da Hyeon Son, Chan Hee Lee, and Hee Chul Lee Department of Advanced Materials Engineering, Tech University of Korea |
| SP-275 | Proposal of Raised S/D Transistor with Buried Insulator Walls and Air Gap to Suppress Leakage Current in DRAM 고호연 ^{1,2} , 선승현 ^{1,3} , 강대웅 ¹ ¹ 서울대학교 차세대반도체융합대학, ² 중앙대학교 첨단소재공학과, ³ 송실대학교 전자정보공학부 전자공학과 |
| SP-276 | 피드백 전계효과 트랜지스터의 주파수 변화에 따른 C-V 히스테리시스 특성 연구 김예지 ¹ , 손승원 ² , 우솔아 ^{1,2} ¹ 부경대학교 전자공학과, ² 부경대학교 지능로봇학과 |



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| SP-277 | Comparative Study on Resistive Switching Behavior of Al_2O_3-Based Synaptic Devices With Different Structural Configurations Sun-Young Kwak, Yu-Bin Kim, Dong-Min Kim, Sung-Ho Kim, Shivam Kumar Gautam, and Hi-Deok Lee Department of Electronics Engineering, Chungnam National University |
| SP-278 | 어닐링에 따른 HfO_2/ZnO 이중층 뉴로모픽 시냅틱 소자의 스위칭 특성 분석 반선호 ¹ , 이주형 ¹ , 염지훈 ¹ , 김용구 ² , 권혁민 ¹ ¹ 한경국립대학교 전기전자공학부, ² 한국폴리텍대학 대구캠퍼스 그린반도체시스템과 |
| SP-279 | Improving the Short Channel Effect Using High-k Material Inside Buried Oxide in NAND Flash Memory 나성현 ^{1,2} , 강대웅 ¹ ¹ 서울대학교 차세대반도체융합대학, ² 송실대학교 신소재공학과 |
| SP-280 | MRAM-PIM 구조 기반 tanh 활성화 함수의 근사 모델 설계 신원규, 채형주, 류성주 서강대학교 전자공학과 |
| SP-281 | Simulation of Conductance Modulation and Filament Evolution in RRAM for Neuromorphic Applications Junyoung Choi ¹ , Dongmyung Jung ² , and Yongwoo Kwon ² ¹ Department of Electronics and Electrical Engineering, Hongik University, ² Department of Materials Science and Engineering, Hongik University |
| SP-282 | Self-rectifying Memristor with Enhanced Retention via Oxygen Vacancy Engineering Hyunwook Ryu ¹ and Jongwon Lee ² ¹ Department of Organic Materials Engineering, Chungnam National University, ² Department of Semiconductor Convergence, Chungnam National University |
| SP-283 | Improving Cell Characteristics in IGZO Channel-Based 3D NAND Flash with p-Type Polysilicon Injection Layer Sungho Park ^{1,2} , Joohyo Kim ^{1,2} , Nayoon Kang ^{1,3} , Hojun Lee ^{1,2} , Sihyun Park ^{1,2} , Siwon Park ^{1,3} , Youngho Jung ⁴ , and Daewoong Kang ¹ ¹ Seoul National University, ² Chung-Ang University, ³ Soongsil University, ⁴ Daegu University |
| SP-284 | Effect of Crystallographic Orientation of Bottom Electrode on Resistive Switching Behavior Junseo Park ¹ and Taehwan Moon ^{1,2} ¹ Department of Electrical and Computer Engineering, Ajou University, ² Department of Intelligence Semiconductor Engineering, Ajou University |



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| SP-285 | <p>Achieving Wide Memory Window Using p-Doped Polysilicon in Ferroelectric 3D NAND Flash</p> <p>Nayoon Kang^{1,2}, Sungho Park^{1,3}, Joohyo Kim^{1,3}, Siwon Park^{1,2}, Sihyun Park^{1,3}, Hojun Lee^{1,3}, Youngho Jung⁴, and Daewoong Kang¹</p> <p>¹Seoul National University, ²Soongsil University, ³Chung-Ang University, ⁴Daegu University</p> |
| SP-286 | <p>Capacitive Coupling-Based Compute-In-Memory (CIM) Architecture for Spiking Neural Network</p> <p>Dongryul Lee¹, Hyunho Kim¹, Hakrae Yu², Jungmin Mun², Honggu Kim², and Yong Shim^{1,2}</p> <p>¹School of Electrical and Electronics Engineering, Chung-Ang University, ²Department of Intelligent Semiconductor Engineering, Chung-Ang University</p> |
| SP-287 | <p>A Cell-Embedded DAC and Column-Embedded ADC Based Charge-Domain 1T1 SRAM Compute-In-Memory Macro</p> <p>Junha Shim¹, Wonseok Kim¹, Junsang Lee¹, Jaeyoun Kim², Yerim An², and Yong Shim^{1,2}</p> <p>¹School of Electrical and Electronics Engineering, Chung-Ang University, ²Department of Intelligent Semiconductor Engineering, Chung-Ang University</p> |
| SP-288 | <p>Physical Reservoir Computing Using IGZO Thin-Film Transistors with Tunneling Contacts</p> <p>Mingeun Park¹ and Hongseok Oh²</p> <p>¹School of Electrical and Electronics Engineering, Chung-Ang University, ²Department of Physics, Soongsil University</p> |
| SP-289 | <p>HEMT 구조를 이용한 NAND FLASH Program/Erase 특성 개선</p> <p>이재현^{1,2}, 선승현^{1,3}, 강대웅¹</p> <p>¹서울대학교 차세대반도체융합대학, ²중앙대학교 전자전기공학부, ³송실대학교 전자정보공학부 전자공학과</p> |
| SP-290 | <p>ML-Based Simulator for 3D FeNAND Device Optimization</p> <p>Seah Min, Insu Sohn, and Min-woo Kwon</p> <p>Department of Electronic Engineering, Seoul National University of Science & Technology</p> |
| SP-291 | <p>Impact of DIBL Degradation and Circuit Variation on Sensed Vt Fluctuation in 3D NAND Flash Memory</p> <p>Seah Min¹ and Jong Kyung Park²</p> <p>¹Department of Electronic Engineering, Seoul National University of Science & Technology, ²Department of Semiconductor Engineering, Seoul National University of Science & Technology</p> |
| SP-292 | <p>Suppression of GIDL Using Asymmetric Gate Oxide in DRAM Cell Transistor</p> <p>이수호^{1,2}, 송혜원^{1,3}, 강대웅¹</p> <p>¹서울대학교 차세대반도체융합대학, ²송실대학교 전자정보공학부, ³중앙대학교 전자전기공학부</p> |



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| SP-293 | <p>Optimizing Swing Characteristics Using Drain-Side HfO₂ Extension and Dual Work Function Asymmetric Gate in DRAM</p> <p>윤철호^{1,2,3}, 임한규^{1,4}, 강대웅¹</p> <p>¹서울대학교 차세대반도체융합대학, ²중앙대학교 반도체시스템공학과, ³중앙대학교 첨단소재공학과, ⁴중앙대학교 전자전기공학부</p> |
| SP-350 | <p>Proposal and Optimization of a Dual-Channel JLFET-Based 3D DRAM Cell Architecture</p> <p>Minseong Kim, Taewoo Kim, Junho Shin, and Jangsaeng Kim</p> <p>Department of Electronic Engineering, Sogang University</p> |



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ZONE2-1 (5층, 로비)

[SP] 학부생포스터세션

L. Analog Design 분과

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| SP-294 | 1.8 V LDO Regulator Design Using Resistor-Current Mirror Based Reference Voltage Circuit 정평교, 이태건, 이은호, 김경생 청주대학교 시스템반도체공학과 |
| SP-295 | 웨어러블 기기에 적합한 180nm 공정 초저전력 8bit SAR ADC 설계 이상혁, 차민혁, 김경생 청주대학교 반도체 공학과 |
| SP-296 | Design of an 8-bit 800 MS/s Compact Single-Channel SAR ADC with Coarse-Fine Charge-Injection DAC Min-Jae Lee, Beom-Yeon Cho, Woo-Jin Jeon, and Chan-Ho Kye College of Semiconductor, Gachon University |
| SP-297 | An External Capacitor-Less Ultralow-Dropout Regulator Using a Loop-Gain Stabilizing Technique for High Power-Supply Rejection Over a Wide Range of Load Current Changin Yoon and Younghyun Lim Department of Semiconductor Engineering, Kyung Hee University |
| SP-298 | A Command-Aware Distributed Hybrid LDO Achieving High PSR and Fast Settling Time in HBM Interfaces Taehyub Kim and Younghyun Lim Department of Electrical Engineering, Kyung Hee University |
| SP-299 | A TID-Robust LDO with Replica-Referenced Bias and EA Output Decoupled from the Pass Gate Deok Won Koh and Younghyun Lim Department of Electronic Engineering, Kyung Hee University |
| SP-300 | A 48 Gb/s PAM-3 Receiver with CTLE and 4-Tap Adaptive DFE Equalizing 15dB Channel Loss 오동석, 강민, 계찬호 가천대학교 반도체대학 |



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| SP-301 | 3 to1 MUX 를 이용한 저전력 8-bit SAR ADC 설계 박용준, 이원영 서울과학기술대학교 스마트ICT융합공학과 |
| SP-302 | A Wide Input Range Low-Power Bandgap Reference with Pre-Regulator and Cascode Subthreshold BMR Compensation 김윤성 ¹ , 문경민 ¹ , 오승표 ¹ , 이주열 ² ¹ 가천대학교 전자공학과, ² 가천대학교 시스템반도체학과 |
| SP-303 | A Fast Transient and High PSRR, Output-Capacitorless FVF LDO 오승표 ¹ , 문경민 ¹ , 김윤성 ¹ , 이주열 ² ¹ 가천대학교 전자공학과, ² 가천대학교 시스템반도체학과 |



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ZONE2-1 (5층, 로비)

[SP] 학부생포스터세션

M. RF and Wireless Design분과

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| SP-304 | 2.4 GHz Class-F Rectifier Using Time-Reversal Duality for Energy Harvesting Applications Jinbeom Bae ¹ , Jinho Yoo ² , and Changkun Park ^{1,2} ¹ School of Electronic Engineering, Soongsil University, ² Department of Intelligent Semiconductor Soongsil University |
| SP-305 | Design of a Class-F RF-to-DC Rectifier Employing Time-Reversal Duality at 2.4 GHz Dongjun Joo ¹ , Jinho Yoo ² , and Changkun Park ^{1,2} ¹ School of Electronic Engineering, Soongsil University, ² Department of Intelligent Semiconductor, Soongsil University |
| SP-306 | A 65-nm CMOS Two-Stage Cascode VGA with Low Phase Error for 7-9 GHz Phased-Array Applications Song Min ¹ , Hyeonhui Roh ² , Yejin Kim ² , and Changkun Park ^{1,2} ¹ School of Electronic Engineering, Soongsil University, ² Department of Intelligent Semiconductor, Soongsil University |
| SP-307 | Design of a Two-Stage FD-SOI Low-Noise Amplifier for 6G Wireless Receiver Front-End Woong Chae ¹ , Bohyeon Kim ² , Chaeyun Kim ² , and Changkun Park ^{1,2} ¹ School of Electronic Engineering, Soongsil University, ² Department of Intelligent Semiconductor Soongsil University |
| SP-308 | Through Glass Via 인덕터를 활용한 초소형 3D Balun의 설계 황석영, 김영준 가천대학교 전자공학부 전자공학전공 |



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ZONE2-2 (5층, 로비)

[SP] 학부생포스터세션

N. VLSI CAD 분과

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| SP-309 | Low-Power Register File Design Using Multi-Vth MUX-Based Clock Gating Jeongmin An , Minseo Choi , Keonwoo Kim , Seunghoon Lee , and Jeongbeom Kim Department of Electronics Engineering, Kangwon National University |
| SP-310 | Multibit Flip-Flop 적용 방식에 따른 설계 PPA 분석 석준규 ¹ , 현대준 ² ¹ 국립공주대학교 전기전자제어공학부, ² 세종대학교 반도체시스템공학과 |
| SP-311 | GSEP : Graph-based Speculative Expert Prefetching for Efficient Mixture-of-Experts(MoE) Inference Seungchan Lee ¹ and Joon-Sung Yang ^{1,2,3} ¹ Department of Electrical and Electronic Engineering, Yonsei University, ² Department of Systems Semiconductor Engineering, Yonsei University. ³ BK21 |
| SP-312 | SPICE 시뮬레이션 연동을 위한 GUI Schematic Editor 구현 한신희, 정태경, 이찬형, 김민수, 김병섭 포항공과대학교 전자전기공학과, 포항공과대학교 반도체공학과 |



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[SP] 학부생포스터세션

O. System LSI Design 분과

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| SP-313 | Automated Exploration of the Area-Throughput Trade-Off in Parallel CRC Design Bee Shin and Injae Yoo School of Electrical and Electronics Engineering, Pusan National University |
| SP-314 | 저전력 메모리 인터페이스를 위한 DBI Embedded MTA 인코딩을 통한 PAM-4 송신기 전력 저감 기법 김현정 ¹ , 김근호 ¹ , 정재혁 ¹ , 안엽 ² , 윤재광 ³ ¹ 가천대학교 전자공학전공, ² 가천대학교 차세대반도체전공, ³ 가천대학교 시스템반도체학과 |
| SP-315 | A PAM-4 Transmitter Using Asymmetric Fractional-Spaced FFE for MTA Encoding 정재혁 ¹ , 안엽 ² , 김현정 ¹ , 김근호 ¹ , 윤재광 ³ ¹ 가천대학교 전자공학전공, ² 가천대학교 차세대반도체전공, ³ 가천대학교 시스템반도체학과 |
| SP-316 | Neuromorphic Hardware Control Design for Ball Balancing System 김한음, 신호송, 이예나, 류성주 서강대학교 전자공학과 |
| SP-317 | Matrix Multiplication Optimization based on HLS Jihyeon Jo, Sehyun Lee, and Woong Choi Department of Electrical Engineering, Sookmyung Women's University |
| SP-318 | Verilog 및 HLS 기반 FFT 구조의 비교 분석을 통한 하드웨어-소프트웨어 공설계 연구 백세현, 신지훈 서강대학교 전자공학과 |
| SP-319 | "내 칩 제작 서비스"를 통한 12비트 CORDIC 기반 NCO 설계 및 칩 테스트 ¹ 지하은, ² 국일호 ¹ 경희대학교 전자공학과, ² 한국전자통신연구원 |



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| SP-320 | 병렬 PRBS 생성기의 구현 및 검증 유승현 ¹ , 박준성 ² , 장익수 ² , 임재균 ³ , 김병섭 ² ¹ 성균관대학교 전자전기공학부, ² 포항공과대학교 전자전기공학과, ³ 포항공과대학교 반도체대학원 |
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ZONE2-2 (5층, 로비)

[SP] 학부생포스터세션

Q. Metrology, Inspection, Analysis, and Yield Enhancement 분과

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| SP-330 | DC Characterization of Saline Droplet for Non-Destructive Probing Beom-Jin Park, Seo-Yeon Park, Joo-Young Son, Jeong-Bin Cho, Dongjoo Kim, Namsu Kim, Yeong-Seok Lee, Chanhoo Kim, Seong-Pil Choi, and Dongha Shim Department of Manufacturing System and Design Engineering, Seoul National University of Science & Technology |
| SP-331 | Real-Time Diagnostic of Atomic Layer Deposition on 3D Structures Using Quadrupole Mass Spectrometry Seong-Min Jang ¹ , Dong-Hyun Lim ¹ , Young-Ho Hong ² , Kyung-Won Park ² , and Il-Kwon Oh ^{1,3} ¹ Department of Intelligence Semiconductor Engineering, Ajou University, ² R&D Center, ATIK CO., LTD., ³ Department of Electrical and Computer Engineering, Ajou University |
| SP-332 | Cold Cathode Electron Beam Trajectory Analysis with Deflection Electrode for High Quality SEM Imaging Yu Seong Lee, Chan Woong Jeon, Dana Chung, Chan Woo Kim, Iksu Kim, and Kyu Chang Park Department of Future Information Display, College of Sciences, Kyung Hee University |
| SP-333 | Effects of Electron Beam Size on High Resolution X-Ray Sources for HBM Inspection Application Chanwoo Kim, Chan Woong Jeon, Dana Chung, Yu Seong Lee, Iksu Kim, and Kyu Chang Park Department of Future Information Display, College of Sciences, Kyung Hee University |
| SP-334 | Simulation and Measurement for Reconstruction of EUV Light Spectrum with Cold Cathode Beam (C-beam) Irradiation 정단아, 김익수, 김범준, 전찬웅, 김은주, 이유성, 김찬우, 박규창 경희대학교 미래정보디스플레이학부 |



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[SP] 학부생포스터세션

B. Patterning (Lithography & Etch Technology) 분과

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| SP-019 | <p>저 지구온난화지수 Hexafluoropropylene Oxide Plasma를 이용한 SiO₂와 Si₃N₄ 식각 백시은¹, 김창구^{1,2}</p> <p>¹Department of Chemical Engineering, Ajou University, ²Department of Energy Systems Research, Ajou University</p> |
| SP-020 | <p>VO₂-W 계면의 접촉 저항 특성 및 온도 의존성 분석 손혜원¹, 박동희², 전민성³</p> <p>¹성균관대학교 기계공학과, ²KIST 양자기술연구단, ³성균관대학교 반도체융합공학과 반도체특성화대학지원사업단</p> |
| SP-021 | <p>Lithography-Free Interdigitated Electrodes by Trench-Filling Patterning on Polymer Substrate for Alzheimer's Disease Detection Junsoo Moon, Heewoo Jeon, Wonho Lee, and Joonsub Shim</p> <p>Department of Electronic Convergence Engineering, Kwangwoon University</p> |
| SP-022 | <p>Bilayer Ag/Au Catalyst Optimization for Fast and Uniform Metal-Assisted Chemical Etching on Si Sumin Jeon¹, Haekyun Bong^{2,3}, and Jungwoo Oh^{2,3}</p> <p>¹Department of Chemistry, Yonsei University, ²School of Integrated Technology, Yonsei University, ³BK21 Graduate Program in Intelligent Semiconductor Technology, Yonsei University</p> |
| SP-023 | <p>Wet-Process-Induced Surface Damage in IGZO Thin Films Jimin Lee¹, Hojun Jung¹, and Boseong Kim²</p> <p>¹Department of Display and Semiconductor Physics, Korea University, ²Department of Applied Physics, Korea University</p> |
| SP-024 | <p>JNU Semi Fab 환경에 최적화된 포토리소그래피 공정 레시피 개발 및 공정 변수 분석 노유지¹, 고유권¹, 김민수¹, 문서연¹, 이소영¹, 김성완^{1,2}, 김우영^{1,2}</p> <p>¹제주대학교 전자공학과, ²제주대학교 반도체디스플레이연구센터</p> |



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[SP] 학부생포스터세션

F. Silicon and Group-IV Devices and Integration Technology 분과

| | |
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| SP-115 | <p>Agent-Driven LLM Framework for Interactive Parasitic Capacitance Prediction in CFETs via Model Context Protocol</p> <p>Wooseok Choi¹, Jaehong Park^{2,3}, Seung Kyu Kim^{2,3}, Johyeon Kim⁴, Kee-Won Kwon², and Jongwook Jeon⁴</p> <p>¹Department of Electronic and Electrical Engineering, Sungkyunkwan University, ²Department of Semiconductor and Display Engineering, Sungkyunkwan University, ³Samsung Electronics, ⁴Department of Electrical and Computer Engineering, Sungkyunkwan University</p> |
| SP-116 | <p>Analysis of Seed Layer and Bonding Pressure Effects on Domain Separation-Induced Split-Up in Ferroelectric H0.5Z0.5O2 Films</p> <p>Chaeho Kwon¹, Jeongheon Cho¹, Myeongjae Choi², and Changhwan Shin³</p> <p>¹School of Semiconductor Engineering, College of Engineering, Korea University, ²Department of Semiconductor System Engineering, Korea University, ³School of Electrical Engineering, College of Engineering, Korea University</p> |
| SP-117 | <p>Study About Total Ionizing Dose Effects</p> <p>Seungmin Yoon, Jeonggeun Park, Gwanhee Lee, Hojun Kim, Seonggeun Kim, and Sangwan Kim</p> <p>Department of Electronic Engineering, Sogang University</p> |
| SP-118 | <p>Optimization of SiO₂ Capping Layer for Single Crystal Ge Formation via Rapid Melting Growth</p> <p>Jongmin Son, Hyeseo Park, Dong Woo Lee, Donghwan Ahn, and Youngmin Kim</p> <p>School of Materials Science & Engineering, Kookmin University</p> |
| SP-119 | <p>GAA-NS FET CMOS 인버터의 PPA 25% 향상을 위한 DTGO 전략</p> <p>윤진수¹, 최재원², 내경한³, 전수민⁴, 배종현^{3,5}, 정도환³, 오정우^{3,5}</p> <p>¹연세대학교 간호학과, ²연세대학교 물리학과, ³연세대학교 IT융합공학과, ⁴연세대학교 화학과, ⁵연세대학교 지능형반도체 융합전공</p> |
| SP-120 | <p>Comprehensive Simulation Study on the 3D NAND Flash Operation of Gate-Injection Ferroelectric Field-Effect Transistors (GI-FeFETs)</p> <p>YoonSoo Choi, YeonJong Jeong, Changmin Chae, Dongseok Oh, HyungJu Noh, and Sangwan Kim</p> <p>Department of Electronic Engineering, Sogang University</p> |



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| SP-121 | Analysis on Single-Event Transients in High-Temperature-FETs Kyu Jin Jung ¹ , Woo Young Choi ² , and Il Hwan Cho ¹ ¹ College of Semiconductor and ICT, Electronic Engineering Major, Myongji University, ² Department of Electrical and Computer Engineering and the Inter-university Semiconductor Research Center (ISRC), Seoul National University |
| SP-122 | Characteristics of High-Temperature FET Based Static Random Access Memory Eun Ji Cho ¹ , Woo Young Choi ² , and Il Hwan Cho ¹ ¹ Electronic Engineering Major, College of Semiconductor and ICT, Myongji University, ² Department of Electrical and Computer Engineering and the Inter-university Semiconductor Research Center (ISRC), Seoul National University |
| SP-123 | Delay Control with Parameter Engineering under Temperature Effect Inversion in Saddle MOSFETs SungHyuk Lee ¹ , Woojoo Lee ² , and Il Hwan Cho ¹ ¹ Electronic Engineering Major, College of Semiconductor and ICT, Myongji University, ² School of Electrical & Electronics Engineering, Chung-Ang University |
| SP-124 | Radiation-Induced Transient Characteristics of Feedback FETs Hwan Hee Lee ¹ , Woo Young Choi ² , and Il Hwan Cho ¹ ¹ Electronic Engineering Major, College of Semiconductor and ICT, Myongji University, ² Department of Electrical and Computer Engineering and the Inter-university Semiconductor Research Center (ISRC), Seoul N |
| SP-125 | Thermal Performance Analysis of BPR-Based Complementary Field-Effect Transistor (C-FET) according to Packaging Method Jaehoon Yoon ¹ , Jisung Lee ² , Johyeon Kim ³ , and Jongwook Jeon ⁴ ¹ Department of Electrical and Electronics Engineering, Konkuk University, ² Department of Electronic Engineering, Chungnam National University, ³ Department of Semiconductor Convergence Engineering, Sungkyunkwan University, ⁴ Department of Electrical and Computer Engineering, Sungkyunkwan University |
| SP-126 | Mitigate of Bottom Channel Depletion in Drain Extension Gate-All-Around FETs Jun seok Lee ¹ , Kanghee Lee ² , and Jang Hyun Kim ² ¹ Department of Electrical and Computer Engineering, Ajou University, ² Department of Intelligence Semiconductor Engineering, Ajou University |
| SP-127 | Improved Light Absorption in Slanted Silicon Nanowire Arrays via SiO₂ Surface Passivation Hayoung Jang ¹ , Sangho Shin ² , and Youngmin Kim ¹ ¹ School of Material Science and Engineering, Kookmin University, ² Department of Nano Manufacturing Technology, KIMM |



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| SP-128 | Inner Metal Gate 변경을 통한 CFET의 Multi-Vth 구현 및 최적화 김동욱, 김종우 단국대학교 공과대학 전자전기공학부 |
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[SP] 학부생포스터세션

P. Device for Energy (Solar Cell, Power Device, Battery, etc.) 분과

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| SP-321 | Bi₄Ti₃O₁₂/PDMS Triboelectric Nanogenerator-Based Sensing and Signal Classification Taehun Kang ¹ , Hongmu Park ² , Jaesik Kim ¹ , Anand Kurakula ² , Jae Su Yu ² , and Yeong Hwan Ko ¹ ¹ Kongju National University, ² Kyung Hee University |
| SP-322 | 환원 정도에 따른 환원산화 그래핀 박막의 광학적 특성 연구 임벼리 ¹ , 김예은 ¹ , 김수근 ^{1,2} , 강영호 ^{1,3} ¹ 전남대학교 물리교육과, ² 전남대학교 광전자융합기술연구소, ³ 전남대학교 양자기술연구소 |
| SP-323 | Design of Vertical Merged PN-Schottky (MPS) GaN Diode with Multi-Drift-Layer and Field-Plate Termination Structures Using TCAD Sebeen Youn, Jong Hyuck Oh, and Yun Seop Yu Major of Semiconductor Convergence and Major of ICT & Robotics Engineering, Hankyong National University |
| SP-324 | Purifying Heavy Metals from Various Solution by Chemical Adsorption on Porous Magnesium Oxide Surface Hee Eun Choi, Youngho Kim, and Hak Ki Yu Department of Materials Science and Engineering & Department of Energy Systems Research, Ajou University |
| SP-325 | Enhanced Efficiency and Stability in Organic Photovoltaics via Morphology Control Using Solid Additives Unyong Lee, Hyeonil Ahn, Seungpil Baek, and Minwoo Nam Department of Electronic Engineering, Keimyung University |
| SP-326 | 이중 기능 광센서를 이용한 지능형 온실 차광 시스템 구현 심상우, 서준표, 정현우, 남민우 계명대학교 전자공학과 |
| SP-327 | Work Function Tuning in Co-Evaporated Bi₂Se₃ via Composition Control Jeong Seok Lee ^{1,2} and Hak ki Ryu ^{1,2} ¹ Department of Energy Systems Research, Ajou University, ² Department of Materials Science and Engineering, Ajou University |



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| SP-328 | Oxygen Vacancy-Rich CuO Nanoflowers for High-Performance Glucose Sensing Hyeong Gyu Kim, Jin Guk Kim, and Hak Ki Yu Department of Materials Science and Engineering & Department of Energy Systems Research, Ajou University |
| SP-329 | Synergistic Piezoelectric-Flexoelectric Coupling in Porous PVDF-TrFE for Enhanced Energy Harvesting Han Bi Woo ¹ , Minji Hong ¹ , Junseok Lee ² , and Mingyu Sang ¹ ¹ Department of Electronic Engineering, Gachon University, ² Department of Biomedical Engineering, Gachon University |



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[SP] 학부생포스터세션

T. AI 분과

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| SP-335 | FPGA 기반 실시간 음성 위험 감지 시스템의 설계 및 구현 황선준, 예승희 연세대학교 소프트웨어학부 |
| SP-336 | 최적 Shared-Exponent 탐색과 재학습을 통한 AI 모델 압축 기법 강우현 한국외국어대학교 전자공학과 |
| SP-337 | PRiNSS : A Hardware-Efficient Posit Regime-NOR-Shift and Split MAC Se Mee Eom, Do Hyun Kim, and Jae Joon Kim Department of Electrical and Computer Engineering, Seoul National University |
| P-338 | A Data-Driven Framework for Predicting Multi-Vt Characteristics of Multi-Bridge Channel GAAFETs Do Jun Lee ¹ , Jung Ki Hong ¹ , Min seo Lee ¹ , Seul Ki Hong ² , and Dong Jin Ji ² ¹ Department of Electronics Engineering, Seoul National University of Science & Technology, ² Department of Semiconductor Engineering, Seoul National University of Science & Technology |
| SP-339 | Hebbian-Learning-Based Method for On-Chip Training on NVM Crossbar Hardware Jaeyoung Choi ¹ and Gyuweon Jung ^{1,2} ¹ Department of Electrical and Computer Engineering, Seoul National University, ² School of Transdisciplinary Innovations, Seoul National University |
| SP-340 | Inference Optimization of Google Gemma-3 on Edge Devices Dojin Park ¹ and Injae Yoo ² ¹ Department of Biomedical Engineering, Pusan National University, ² School of Electrical and Electronics Engineering, Pusan National University |
| SP-341 | 딥러닝 기반 학습형 오디오 프런트엔드(LEAF)를 이용한 드론 음향 탐지 모델 김도진 ¹ , 이준범 ² , 김도영 ³ , 박형민 ² ¹ 서강대학교 기계공학과, ² 서강대학교 전자공학과, ³ 서강대학교 인공지능학과 |



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| SP-342 | <p>Design of CMOS Neurons for Faithful Emulation of Memristive Spiking Neural Network and Its Application for Associative Memory</p> <p>Jiseok Park^{1,2}, Sangmin Lee^{1,3}, Sungmin Yoo^{1,4}, Seungkyu Kang¹, Hyunjae Jang¹, and Inho Kim¹</p> <p>¹Center for Semiconductor Technology, KIST, ²School of Electronics, Seoul National University of Science & Technology, ³Department of Micro/Nano Systems, Korea University, ⁴School of Electrical Engineering, Korea University</p> |
| SP-343 | <p>아날로그 하드웨어 비이상성이 대규모 언어모델의 연산 정확도에 미치는 영향 분석</p> <p>김세현¹, 주봉준², 허가은², 김세영^{1,2,3}</p> <p>¹포항공과대학교 반도체공학과, ²포항공과대학교 반도체대학원, ³포항공과대학교 전자전기공학과</p> |
| SP-344 | <p>진화 알고리즘을 이용한 초저전력 e-Flash 시냅틱 소자의 산화막 두께 최적화</p> <p>서채은, 이윤진, 권찬영, 송민석, 이창희</p> <p>국민대학교 전자공학부</p> |
| SP-345 | <p>Scaling-Aware Physical Interpretation of MOSFET Design Parameters Using Explainable Machine Learning</p> <p>Won Taek Oh, Su A Go, Hae In Yun, Yea Ji Lee, Jae Hyuk Choi, Ji Seon Park, and Dong Jin Ji</p> <p>Department of Semiconductor Engineering, Seoul National University of Science & Technology</p> |
| SP-346 | <p>주파수 도메인 기반 다중 스케일 Transformer를 이용한 이미지 복원 성능 향상 기법</p> <p>이주성¹, 이호섭²</p> <p>¹국립금오공과대학교 전자공학부 전자시스템전공, ²국립금오공과대학교 전자공학부 반도체시스템전공</p> |
| SP-347 | <p>FPGA 기반 Weight-Stationary 구조의 MNIST 분류 가속기 성능 비교</p> <p>정찬우¹, 김은수¹, 박서인¹, 이계석¹, 김태경²</p> <p>¹가천대학교 전자공학과, ²가천대학교 시스템반도체학과</p> |



2026-01-27(화), 13:00-18:00
(공식발표시간: 16:00-18:00)
ZONE3 (6층, 로비)

[SP] 학부생포스터세션

U. Bio-Medical 분과

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| SP-348 | Polymer-Engineered Multimodal Sensing Platform for Real-Time pH Detection and Alarming Hye Yeon Yun ¹ , Hyeon Bin Jo ¹ , Kwang Hoon Song ² , and Sung Hun Jin ¹ ¹ Department of Information Display, Kyung Hee University, ² Department of Intelligent Semiconductor Engineering, Incheon National University |
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2026-01-27(화), 13:00-18:00
(공식발표시간: 16:00-18:00)
ZONE3 (6층, 로비)

[SP] 학부생포스터세션

V. Quantum Technology 분과

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| SP-349 | Trade-Off between Inference Time and Error Correction Rate for Machine Learning Based Quantum Error Correction Seokhyeon Son ¹ , Junyong Lee ² , Jeihee Cho ² , Euimin Lee ² , Hyeonseong Jung ² , Yunah Choi ² , and Shiho Kim ¹ ¹ School of Integrated Technology, Yonsei University, ² BK21 Graduate Program in Intelligent Semiconductor Technology, Yonsei University |
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