

Session Title:	[P2] Poster Session II
Session Date:	November 16 (Wed.), 2022
Session Time:	15:10~16:30
Session Room:	Grand Ballroom 4, 2F

[P2-001]

The Effect of Self-Annealing Property on Copper-to-Copper Bonding

Haneul Han, Youjung Kim, and Bongyoung Yoo (Hanyang Univ., Korea)

[P2-002]

Warp Simulation with Consideration of a Cure Shrinkage of EMC Measured Using FBG Sensor and Dielectric Sensor

Jeong-Hyeon Baek, Dong-Woon Park (Hanyang Univ., Korea), Han-Sung Ryu, Gyung-Hwan Oh (Samsung Electronics Co., Ltd., Korea), and Hak-Sung Kim (Hanyang Univ., Korea)

[P2-003]

The Study of the Fabrication of Thin Film Transistor Using Molybdenum Electrode Sintered by Intense Pulsed Light Sintering Process with Non-Vacuum and Room Temperature Processed

Jong-Whi Park and Hak-Sung Kim (Hanyang Univ., Korea)

[P2-004]

Wafer Layer Transfer for Monolithic 3D (M3D) Integration Using SOI Substrate and Smart-Cut

Sun Bum Kim, Chan Seul Lee, Jin Ho Park, Se Hyeon Choi, and Changhwan Choi (Hanyang Univ., Korea)

[P2-005]

Analysis of Stress Characteristics on Thin Film Variant in TSV Structure

Cheong-Ha Jung, YeJi Kim, Jun-Hyeok Park, Sung-Uk Kim, NaYeon Kim, and Gu-Sung Kim (Kangnam Univ., Korea)

[P2-006]

The Fabrication of Thin Film Transistor with Silver Nanowire Bottom Gate Electrode Welded by Intense Pulsed Light Welding Process with Simultaneous Mechanical Roll-Pressing

Young-Min Ju, Jong-Whi Park, and Hak-Sung Kim (Hanyang Univ., Korea)

[P2-007]

Electroplating Simulation of Tin on 12 inch Wafer for High Bandwidth Memory (HBM)

Jae-Seong Jeong, Young-Gi An (KETI, Korea), and Woon-Seok Jung (Hojinplatech, Korea)

[P2-008]

Hardware Neuromorphic System with Diffusion Memristor-Based Artificial Synapses Using Heterogeneous Integration

Yu Rim Jeon, Chul Won Chung, Jin Ho Park (Hanyang Univ., Korea), Donguk Seo (Sungkyunkwan Univ., Korea), and Changwan Choi (Hanyang Univ., Korea)

[P2-010]

Stability Enhancement of Dynamic Spectroscopic Imaging Ellipsometer

Gukhyeon Hwang, Vamara Dembele, Sukhyun Choi, Saeid Kheiryzadehkhaghah, Inho Choi, Junbo Shim (Jeonbuk Nat'l Univ., Korea), Sungtae Kim, Sangjun Kim (AUROS Tech., Korea), and Daesuk Kim (Jeonbuk Nat'l Univ., Korea)

[P2-011]

A Study on Harmonic Currents Generated by AC Voltage in Double Langmuir Probes

NaYeon Kim, JaeHwi Kim, Jeonghyun Lee, HyoJun Choi, and Chin-Wook Chung (Hanyang Univ., Korea)

[P2-012]

Ultrasonic Powder Buildup Measure in Semiconductor Deposition Equipment Facility for Condition-Based Monitoring

Chan Young Kim, Hwang Gyu Kim, and Sang Jeen Hong (Myongji Univ., Korea)

[P2-014]

Estimation of Electron Density and Electron Temperature of Inductive Coupled Ar Plasmas from Optical Emission Spectra with Collisional Radiative Model

Jaehyeon Kim, Sanghun Lee, Sanghee Han, and Heeyeop Chae (Sungkyunkwan Univ., Korea)

[P2-015]

Effect of the Composition of Yttrium Oxyfluoride (YO_xF_y) for Semiconductor Equipment Parts on the Plasma Resistance and Heat Resistance

Jongho So, Minjoong Kim, Hyuksung Kwon, SangWon Nam, SeonJeong Maeng (KRISS, Korea), Chin-Wook Chung (Hanyang Univ., Korea), and Ju-Young Yun (KRISS, Korea)

[P2-016]

Characterization of Highly Transparent Ga_2O_3 -Based Thin Film Transistor

Jisu Kim, Yerin Jeon, Seokwon Lim, Dukhwan Kim, Jiyeong Park, Chiwan Park, and Hyungtak Seo (Ajou Univ., Korea)

[P2-017]

Analysis of Ferroelectric and Electric Properties in Ti Doped HfO_2 Deposited by RF Sputtering

Yerin Jeon, Seokwon Lim, Jisu Kim, Dukhwan Kim, Jiyeong Park, and Hyungtak Seo (Ajou Univ., Korea)

[P2-018]

Characterization of the Mechanism of Annealing and Crystal Phase for Mott Transistor Operation

Seok Won Lim, Duk Hwan Kim, Yeong Hwan Ahn, Ye Lin Jeon, Ji Yeong Park, Ji Woong Kim, Ji Su Kim, Mohit Kumar, and Hyungtak Seo (Ajou Univ., Korea)

[P2-019]

Study of Comprehensive Data Collection Device for Inductively Coupled Plasma

Yonghyun Kim, Jong-Sik Kim, Jong-Bae Park, and Jong-Hyeon Shin (KFE, Korea)

[P2-020]

Plasma Diagnostics for the Uniform Nitriding Process on 300 mm Wafers

Jong-Bae Park, Jonghyeon Shin, Yong-Hyun Kim, and Jong-Sik Kim (KFE, Korea)

[P2-021]

Analyzing Inductively Coupled Plasma Nitridation Process through Experimentation and Data Analysis

Jong-Hyeon Shin, Jong-Bae Park, Yong-Hyun Kim, and Jong-Sik Kim (KFE, Korea)

[P2-022]

Developed Technology for Thickness and Process Diagnosis Sensor to Improve the Reliability of Nano-Etching

Yunseok Lee, Junho Jeong, Eunhong Kang, and Kyongnam Kim (Daejeon Univ., Korea)

[P2-023]

Effective Methods for Eliminating $(\text{NH}_4)_2\text{SiF}_6$ Powders Generated on Si_3N_4 Wafers Processed by HF VPD

Hyojun Kwon, Wooguk Lee, Taehun Shim, and Jeagun Park (Hanyang Univ., Korea)

[P2-024]

Temperature Dependent Interface Barrier Behavior of the Ni/Au Schottky Contacts to Epitaxial $\alpha\text{-Ga}_2\text{O}_3$ Films on Sapphire Substrate

Sosorburam Boldbaatar, V. Janardhanam, Munkhsaikhan Zumuukhorol, Hoon-Ki Lee, Kyu-Hwan Shim (Jeonbuk Nat'l Univ., Korea), Zagarzusem Khurelbaatar (Mongolian Univ. of Science and Tech., Mongolia), and Chel-Jong Choi (Jeonbuk Nat'l Univ., Korea)

[P2-025]

Gate-All-Around with Back-Gate (GAAB) NAND Structure for Advanced 3D NAND Flash Memory

Jae-Min Sim, Jiho Song, Beom-Su Kim, and Yun-Heub Song (Hanyang Univ., Korea)

[P2-026]

Improvement of Spatial Distribution Measurement of Plasma Parameters through Asymmetric Probe in Double Langmuir Probe

Tae-Wung Hwang, Hyun-Dong Eo, Seong-Joon Park, and Chin-Wook Chung (Hanyang Univ., Korea)

[P2-027]

Investigation of Mechanical Stress on Tungsten and Molybdenum Gate 3D NAND Flash Memory with Tapered Channel Hole

Dong-Gwan Yoon and Yun-Heub Song (Hanyang Univ., Korea)

[P2-028]

A GPU-Based Graph Engine for Large-Scale Network Analysis

Myung-Hwan Jang (Hanyang Univ., Korea), Yunyong Ko (Univ. of Illinois Urbana-Champaign, USA), Dongkyu Jeong, Jeong-Min Park (Hanyang Univ., Korea), and Sang-Wook Kim (Hanyang Univ., Korea)

[P2-029]

RealGraph^{Web}: A Graph Analysis Platform on the Web

Myung-Hwan Jang, Yong-Yeon Jo, and Sang-Wook Kim (Hanyang Univ., Korea)

[P2-030]

The Simulation Study on Optimal Electrode Width and Gap Ratio and Electrode Adhesion Force in ESC

Choong-Hwan Lim and Dong-Kyun Min (Korea Univ. of Tech. & Education, Korea)

[P2-031]

Performance Improvement of β -Ga₂O₃ Deep Ultraviolet Photodetector by Plasma Assisted Pulsed Laser Deposition

Taeyoung Kim, Yoonsok Kim, Wonchae Jeong, and Eun Kyu Kim (Hanyang Univ., Korea)

[P2-032]

Effect of Polymer Passivation on Performance of WSe₂/n+-Si Junction Field-Effect Transistors

Yoonsok Kim, Taeyoung Kim, and Eun Kyu Kim (Hanyang Univ., Korea)

[P2-033]

High-Performance Self-Powered Perovskite Photodetector with ZTO Electron Transport Layer

Hang Shu (Hanyang Univ., Korea), Naushad Khan, Rohit Chuahan, Vikash Singh, V.C. Srivastava (Indian Inst. of Tech. Roorkee, India), Md. Naushad (King Saud Univ., Saudi Arabia), and Jinsub Park (Hanyang Univ., Korea)

[P2-034]

Effects of UV Ozone Surface Treatment on Leakage Current in AlGaIn/GaN Schottky Diode

Wonjun Heo, Minjun-Kim, Jae-Hyuck Choi (Hanyang Univ., Korea), Jung-Hun Park (Seoul Nat'l Univ., Korea), and Jinsub Park (Hanyang Univ., Korea)

[P2-035]

Design of Optimal Cooling Conditions for Polymer Electrolyte Membrane Fuel Cell (PEMFC) Using Finite Element Method and Various Variables Affecting It

Seung-Wook Kim, Hwa-Pyeong Lee, Min-Kyu Kim, and Dae-Yong Jeong (Inha Univ., Korea)

[P2-036]

Enhanced Dielectric Properties of BNT-SBT Thick Film by Polishing Fabricated through Aerosol Deposition

Hwa-Pyeong Lee, Seung-Wook Kim, Min-Kyu Kim, and Dae-Yong Jung (Inha Univ., Korea)

[P2-037]

Optimization of Synthesizing Process of Ultra-High-Purity Quartz Powder via Sol-Gel Process based on Potassium Silicate Solution

Woo-Guk Lee, Ji-Ho Choi, Tae-Hun Shim, and Jea-Gun Park (Hanyang Univ., Korea)

[P2-038]

Numerical Investigation of the Membrane Distillation to Produce the Industrial Water

Jung-Gil Lee, Cheonkyu Lee, and Jinman Kim (KITECH, Korea)

[P2-039]

Structural, Optical and Magnetic Properties of Yttrium-Substituted Erbium Iron Garnet

Yeon Woo Nahm, Yujin Cho, and Suyeon Cho (Ewha Womans Univ., Korea)

[P2-040]

Systolic Array with Convolution Sliding Operations for Depth-Wise Convolution

Do Won Kim, Ye Eun Kim, and Jungwook Choi (Hanyang Univ., Korea)

[P2-041]

Fully Stretchable One-Dimensional Triboelectric Generators via Stretchable Carbon Nanotube Conductor

Woo Jong Kim, Sobi Cho (Hanyang Univ., Korea), Minkyung Kim, John Hong (Kookmin Univ., Korea), and Jin Pyo Hong (Hanyang Univ., Korea)

[P2-042]

Control of Spin Hall and Rashba Efficiency in a HM/FM/Oxide Frame by External Bias of HfO_x Gate Oxide

Jeonghun Shin, Jeongwoo Seo, and Jinpyo Hong (Hanyang Univ., Korea)

[P2-043]

Sparse PointPillars Accelerator for Real-Time Point Cloud 3D Object Detection

Hyungmin Kim and Jungwook Choi (Hanyang Univ., Korea)

[P2-044]

Analysis of RLM Reduction by POD Scheme in PAM4 Applied Next-Generation Graphic Memory Interfaces

Hyuntae Kim and Jaeduk Han (Hanyang Univ., Korea)

[P2-045]

Low-Power Continuous-Time Delta-Sigma ADC Design for Robust Signal Sensing

Jaedo Kim and Jeongjin Roh (Hanyang Univ., Korea)

[P2-046]

A Chopper Current-Feedback Instrumentation Amplifier with Negative-C

Hwaseong Shin and Jeongjin Roh (Hanyang Univ., Korea)

[P2-047]

StrongArm Latch with Multi-Threshold Voltage Design Technique

Sunoh Yeom and Jaeduk Han (Hanyang Univ., Korea)

[P2-048]

Electrovibration Tactile Layer for Stretchable Touch Display

Beom Hee Park (Hanyang Univ., Korea), Haleen Hong (North Carolina State Univ., USA), Byeonghak Park (Stanford Univ., USA), and Yei Hwan Jung (Hanyang Univ., Korea)

[P2-049]

Effects of Temperature and Humidity Conditions on Morphology of Spin-Coated Cs₂AgBiBr₆ Film

Jeongah Lim, UiJin Jung, Bomseumin Jung, Shen Wenhui and Jinsub Park (Hanyang Univ., Korea)

[P2-050]

Time Series Forecasting with Graph Structure Learning

JuHyeon Kim (Hanyang Univ., Korea), LarkKwon Choi (Qualcomm, USA), and KiJung Yoon (Hanyang Univ., Korea)

[P2-051]

Connectivity Inference of Biological Neural Networks through Systematic Perturbations

Taehoon Park (Hanyang Univ., Korea), Muryong Kim (Qualcomm, USA), and Kijung Yoon (Hanyang Univ., Korea)

[P2-052]

Laser-Driven Phase Transition in Mo_{1-x}W_xTe₂ Alloy

Ha Heun Lee, Eunji Lim, Seohui Kang (Ewha Womans Univ., Korea), Yonas Assefa Eshete, Dongyeun Won (Sungkyunkwan Univ., Korea), Yongjoon Lee, Ju-Yeong Jeong, Heejun Yang (KAIST, Korea), Ching-Yu Chiang (NSRRC, Taiwan), Suyeon Cho (Ewha Womans Univ., Korea)

[P2-053]

Optimization of Amorphous In-Ga-Zn-O High Voltage Thin Film Transistor

Sangduk Kim, Hyoungbeen Ju, Jiyoung Bang, Hyeonjeong Sun, Minjin Kwon, Yeonghun Lee, Eunsuk Choi, Onejae Sul, and Seung-Beck Lee (Hanyang Univ., Korea)

[P2-054]

Plasma Density Spatial Distribution Measurement Using Flat Cutoff Array Sensor in Low-Pressure Plasmas

Hee Jung Yeom, Min Young Yoon, Gwang-Seok Chae, Jung Hyung Kim, and Hyo-Chang Lee (KRISS, Korea)

[P2-055]

Electrotactile Epidermal Electronics Using PVA Transfer Printing

Jun Hee Lee (Hanyang Univ., Korea), Jong Uk Kim, Jaeyoung Yoo (Northwestern Univ., USA), and Yei Hwan Jung (Hanyang Univ., Korea)

[P2-056]

Cortical Surface Segmentation based on Graph Neural Network Using Non-Spherical Spatial Coordinates

Donghee Kang (Hanyang Univ., Korea), Juhun Lee (The Univ. of Pittsburgh, USA), and Kijung Yoon (Hanyang Univ., Korea)

[P2-057]

The Effect of Roughness of Substrate for PCB Patterning

Min-Woo Kim, Da-Kyoung You, Yu-Jin Chae, and Hye-Keun Oh (Hanyang Univ., Korea)

[P2-058]

Memory Reduction Implementation of NTT: Cornerstone of PQC Implementation on Low-End Hardware

Jinhang Kim, Dongwoo Han, and Dong-Joon Shin (Hanyang Univ., Korea)

[P2-059]

Modeling of the Heat Transfer and Off-Gas Emissions during the Production of Polyacrylonitrile-Based Carbon Fibers

Zaher Ramadan, Gyo Woo Lee, and Ik-Tae Im (Jeonbuk Nat'l Univ., Korea)

[P2-060]

Applying XAI to Fault Detection and Classification for Semiconductor Manufacturing Processes

Jongsoo Lee, Byeongtae Park, and Dong-Kyu Chae (Hanyang Univ., Korea)

[P2-061]

A Sequential Neural Model towards Fault Detection and Classification for Semiconductor Manufacturing Processes

Byeongtae Park, Jongsoo Lee, and Dong-Kyu Chae (Hanyang Univ., Korea)

[P2-062]

MoS₂-MoSe₂ Heterostructures for Efficient Hydrogen Evolution Reaction

Seungyeon Lee (Ewha Womans Univ., Korea), Jeongwon Park, Kibum Kang, Heejun Yang (KAIST, Korea), and Suyeon Cho (Ewha Womans Univ., Korea)

[P2-063]

Effects of Plasma-Induced Etch Damage to Channel Surface in α -IGZO TFTs and Post-Annealing Process for Recovery

Minjin Kwon, Hyongbeen Ju, Jiyoung Bang, Jinsil Gong, Yeonsu Lee, Hyeonjeong Sun, Sangdeok Kim, Yeonghun Lee, Onejae Sul, and Seung-Beck Lee (Hanyang Univ., Korea)

[P2-064]

Analysis of the Field-Effect Mobility Boosting of IGZO TFTs Depending on Ta Capping Layer Dimensions

Hyeonjeong Sun, Hyoungbeen Ju, Jiyoung Bang, Minjin Kwon, Sangdeok Kim, Yeonghun Lee, Onejae Sul, and Seung-Beck Lee (Hanyang Univ., Korea)

[P2-065]

Efficient OCSSD Firmware Technology for Storage-Level Data Relocation

Inyeong Song and Sang-Won Lee (Hanyang Univ., Korea)

[P2-066]

Research on the Correlation between Process Information and Block I/O Patterns

Kexin Wang and Sang-Won Lee (Hanyang Univ., Korea)

[P2-067]

Enhancement of Photoresist Etching by Controlling the Impedance between Bias Electrode and Ground in an Inductively Coupled Plasma

He You, Jiang Yilang, and Chin-Wook Chung (Hanyang Univ., Korea)

[P2-068]

Low Power Depletion-Mode Gate Driver Using α -IGZO TFTs

June-Hee Lee, Yong-Duck Kim, and Byong-Deok Choi (Hanyang Univ., Korea)

[P2-069]

Small Area, Wide Dynamic Range Photocurrent Difference Read-Out Circuit for TFT Photosensor Using α -IGZO TFT

Yuna Ju, Yong-Duck Kim, and Byong-Deok Choi (Hanyang Univ., Korea)

[P2-070]

Interactive Bicycle Game Design Using AR Technology

HaeKyung Chung (Konkuk Univ., Korea) and JangHyok Ko (Shamyook Univ., Korea)

[P2-071]

I-V Curve Prediction Modeling of Si Solar Cells Using Artificial Neural Network

KyeongMin Kim, SeongGyeom Kim, and Jonghwan Lee (Sangmyung Univ., Korea)

[P2-072]

Improvement in Maximum Power Point Tracking Accuracy of Photovoltaic System based on Neural Network

Younghyun Lee and Jonghwan Lee (Sangmyung Univ., Korea)

[P2-073]

Comparison of I-V Curves of Solar Cells based on Neural Network

Soyoung Park and Jonghwan Lee (Sangmyung Univ., Korea)

[P2-074]

Smart Farm Using Raspberry Pi for Optimal Environmental Conditions

Jong-Huy Choi, Yong-Hyeok Yoon, Tae-Kyeong Song, and Dae-Ki Hong (Sangmyung Univ., Korea)

[P2-075]

Influences of Thickness and Substrate on Apparent Color of Exfoliated WS₂ Flakes

Jungyoon Cho, Anh Thi Nguyen, Jungeun Song, Eunseo Cho, Seoyeong Lim, Soyeong Kwon, and Dong-Wook Kim (Ewha Womans Univ., Korea)

[P2-076]

Highly Crystallized ALD SnO Semiconductor by In-situ Stacking Al₂O₃ Layer and the Associated P-Type Oxide Device Performances

Hye-Mi Kim, Su-Hwan Choi, and Jin-Seong Park (Hanyang Univ., Korea)

[P2-077]

The Role of Sn Element on PEALD ITGO TFTs with Reliable NBIS Stability

Dong-Hyeon Lee, Dong-Gyu Kim, Minseok Kim (Hanyang Univ., Korea), Sangoon Uhm, Taewon Kim, Bongjin Kuh (Samsung Electronics Co., Ltd., Korea), and Jin-Seong Park (Hanyang Univ., Korea)

[P2-078]

Plasma Density Measurement Using Power of Reflected Signal

Jae-Hyeon Kim, Gi-Won Shin, Woo-Jae Kim, Hee-Tae Kwon, Sun-Hee Lee, Ji-Hwan Kim, Yeon-Soo-Park, In-Young Bang, and Gi-Chung Kwon (Kwangwoon Univ., Korea)

[P2-079]

Thickness Dependent Electrical Characteristics on Ultra-Thin Body IGZO Field Effect Transistors

Min Jae Kim, Hyeong Jin Park (Hanyang Univ., Korea), Sungwon Yoo, Min Hee Cho (Samsung Electronics Co., Ltd., Korea), Junghwan Kim, Hideo Hosono (Tokyo Inst. of Tech., Japan), and Jae Kyeong Jeong (Hanyang Univ., Korea)

[P2-081]

Achieving Low-Power Consumption and High Stability of BEOL Compatible IGZO Thin-Film Transistors

Cheol Hee Choi and Jae Kyeong Jeong (Hanyang Univ., Korea)

[P2-082]

Improved Synaptic Behaviors in Oxide/Suboxide HfO_x Bilayer RRAM Devices

D.P. Sahu, P.H. Chung, K. Park, J. Han, and T.-S. Yoon (UNIST, Korea)

[P2-083]

Delta-Sigma Modulator for Low-Power Smart Manufacturing Sensors

Chiho Song and Jeongjin Roh (Hanyang Univ., Korea)

[P2-084]

Microstructure Control and Mechanical Properties Evaluation of Multi-Layered Thin Film Plated in Various Thicknesses

Han-Kyun Shin, Hyun Park, Young-Jun Cho, and Hyo-Jong Lee (Dong-A Univ., Korea)

[P2-085]

Novel Strontium Precursors for Next-Generation Capacitor in DRAM

Chanwoo Park, Bo Keun Park, and Taek-Mo Chung (KRICT, Korea)

[P2-086]

Comparative Analysis of Electronic Power Absorption in Dual Frequency Capacitive Coupled Plasma Device Using a Two-Dimensional Particle-In-Cell Simulation

SunJeong Hwang, Hwan Ho Kim, Ji Hyun Shin, and Hae June Lee (Pusan Nat'l Univ., Korea)

[P2-087]

Position-Selective Growth of Lateral PtTe₂-MoS₂ Heterojunctions for Atomic Transistors with Edge Contacts

Seunguk Song, Aram Yoon, Jong-Kwon Ha, Jihoon Yang, Sora Jang (UNIST, Korea), Chloe Leblanc (Univ. of Pennsylvania, USA), Jaewon Wang, Yeoseon Sim (UNIST, Korea), Deep Jariwala (Univ. of Pennsylvania, USA), Seung Kyu Min (IBS, Korea), Zonghoon Lee (UNIST, Korea), and Soon-Yong Kwon (UNIST, Korea)

[P2-088]

Painting of Solution-Processed 2D Carbide MXene Flakes for Ultrathin Coatings with Tunable Thickness and Electrical Conduction

Shi-Hyun Seok, Seungjun Choo, Jinsung Kwak, Hyejin Ju, Ju-Hyoung Han, Woo-Seok Kang (UNIST, Korea), Joonsik Lee (KIMS, Korea), Se-Yang Kim, Do Hee Lee, Jungsoo Lee, Jaewon Wang, Seunguk Song, Wook Jo (UNIST, Korea), Byung Mun Jung (KIMS, Korea), Han Gi Chae, Jae Sung Son (UNIST, Korea), and Soon-Yong Kwon (UNIST, Korea)

[P2-089]

Epitaxial Process for Dislocation Free SiGe Layer by Ultra-High-Vacuum CVD

Jihoon Kim, Kijun Kim, Hyojun Kwon, Taehun Shim, and Jeagun Park (Hanyang Univ., Korea)

[P2-090]

Synaptic Characteristics of the In-Ga-Zn-O Thin-Film Transistors with Defective Oxides

Donghyeok Park, Hyunjoon Jeon, Chanwoo Kim, Hyunjin Choi, Juhyun Hong, Yerin Shin, Danyoung Cha, Yeonsu Kang, and Sungsik Lee (Pusan Nat'l Univ., Korea)

[P2-091]

Tunable Resistive Switching based on Sulfur Vacancy Engineering of Polycrystalline MoS₂

Ojun Kwon and Byungjin Cho (Chungbuk Nat'l Univ., Korea)

[P2-092]

Highly Stable InGaZnO Field Effect Transistor with Buried-Gate Structure

Do Hyeong Kim and Byungjin Cho (Chungbuk Nat'l Univ., Korea)

[P2-093]

Outstanding Optical Performance of NbS₂/n-MoS₂/p-Si Heterostructured Photodiode via One-Step CVD Process

Hyun Young Seo and Byungjin Cho (Chungbuk Nat'l Univ., Korea)

[P2-094]

N-MoS₂/p-Si Heterojunction with Graphene Interlayer for High-Performance IR Photodetector

Wondeok Seo, Woojin Park, Do Hyeong Kim, and Byungjin Cho (Chungbuk Nat'l Univ., Korea)

[P2-095]

Development of Low-Temperature Curable Overcoat Materials with a High Hardness

Il-Ji Bae, Hohyun Yang, Sun Hong Yoon (KETI, Korea), Yu Sun (Herachem Tech. Co., Ltd., Korea), and Miyoung Kim (KETI, Korea)

[P2-096]

Excavating the Optimal Composition and Combination of Ferroelectric/Dielectric for Developing Practical NCFET

Yuri Kim, Joonki Suh, Hongsik Jeong, and Dong-Hyeok Lim (UNIST, Korea)

[P2-097]

Nano-Structural Analysis of Organic and Organic/In-Organic Hybrid Semiconductor Thin Films Using Synchrotron X-Rays

Seungyeon Hong, Haeun Yoon, Sung Hun Lee, Hanbin Lee, Kyungmin Lee, Hyomin Seo, Inhwa Cho, and Hyo Jung Kim (Pusan Nat'l Univ., Korea)

[P2-098]

Using Nano-Porous Polymer Film: Optical Physical Unclonable Function

Min Seong Kim and Gil Ju Lee (Pusan Nat'l Univ., Korea)

[P2-099]

Rethinking the Advantages of Linear Conductance Learning Curves on On-Chip Memristor Synapse Devices for Neural Networks Training

Donghyun Lee, Hanbin Cho, Joonki Suh, Hongsik Jeong, and Dong-Hyeok Lim (UNIST, Korea)

[P2-100]

Omnidirectionally Stretchable Strain Sensor Using Crumple MoS₂

Min-Ji Jeon (Pusan Nat'l Univ., Korea), Seungwoong Park, Byung Hee Hong (Seoul Nat'l Univ., Korea), and Seung-Ki Lee (Pusan Nat'l Univ., Korea)

[P2-101]

Implementation of PECVD Equipment Monitoring and Diagnosis System Using Machine Learning

Younji Lee, Jeong Eun Choi, Surin An, and Sang Jeen Hong (Myongji Univ., Korea)

[P2-102]

Study for Measurements of Plasma-Generated Radicals in Inductively Coupled Fluorocarbon Plasma

Won-Seok Chang, Sang-Young Jung, Yeong-Geun Yook (KFE, Korea), Jae-Hyung Park (Jeonbuk Nat'l Univ., Korea), Deuk-Chul Kwon (KFE, Korea), Dong-Hun Yu (Kyung Won Tech. Inc., Korea), Hee-Chul Choi (KFE, Korea), and Yeonh-Ho Im (Jeonbuk Nat'l Univ., Korea)

[P2-103]

Real-Time Endpoint Detection of Si₃N₄ Films in Plasma Etching Using Optical Emission Spectroscopy with Spectral Clustering

Seonghyeon Lee, Hojun Choi, Jaehyeon Kim, and Heeyeop Chae (Sungkyunkwan Univ., Korea)

[P2-104]

Development of Tip/Tilt Stage for Alignment of Wafer Bonding

Hak-Jun Lee (KITECH, Korea), Dahoon Ahn (Seoul Nat'l Univ. of Science and Tech., Korea), and Cheonkyu Lee (KITECH, Korea)

[P2-105]

Ruthenium Filling Using Electroplating for 3D Integration

Youjung Kim, Haneul Han, and Bongyoung Yoo (Hanyang Univ., Korea)