

Session Title:	P3. Poster Session 3
Session Date:	August 22 (Fri.), 2025
Session Time:	14:00-15:30
Session Room:	2A Hall

[P3-001]

The Utilization of Binocular Fusion in Stereo Perception Optimization

Yueyuan Zhang (Southeast Univ. & Shi-Cheng Lab., China), Zhenping Xia (Suzhou Univ. of Science and Tech., China), and Yuning Zhang (Southeast Univ. & Shi-Cheng Lab., China)

[P3-002]

SDGs-POP: Non-Electrical Variable POP Display Using Punching Sheet Screen which Enables to Change Apparent Shape by Optical Illusions on Frame Design

Kunio Sakamoto and Kanaho Ishikawa (Konan Univ., Japan)

[P3-004]

Development of an Anti-Reflective Coating for Curved Glass with Minimal Reflection Color Variation in Curved Regions

Dahye Kim, Juyoung Yoon, Hyunhyang Kim, Mansoo Kim, and Joonhyung Kim (Samsung Display Co., Ltd., Korea)

[P3-006]

Comparison of XYZ Tristimulus Colorimeter Accuracy Across Spectral Shifts in OLED Display Manufacturing: Unique Method vs. Bodner Method vs. Extended Unique Method

Hyongmin Hahm (Incheon Nat'l Univ. & Admesy Technologies Asia, Korea) and Seongyun Kang (Admesy Technologies Asia, Korea)

[P3-007]

Optimized Selection of Reference DUTs for the Extended Unique Matrix to Improve XYZ Tristimulus Colorimeter Accuracy Over Spectral Shifts Across DUTs in OLED Display Manufacturing

Hyongmin Hahm (Incheon Nat'l Univ. & Admesy Technologies Asia, Korea) and Seongyun Kang (Admesy Technologies Asia, Korea)

[P3-008]

Optimized Selection of Reference DUTs for the ASTM Matrix in Correcting XYZ Tristimulus Colorimeter Measurements over Spectral Shifts in OLED Production

Hyongmin Hahm (Incheon Nat'l Univ. & Admesy Technologies Asia, Korea) and Seongyun Kang (Admesy Technologies Asia, Korea)

[P3-009]

Effects of Display-Based Eye Movement Exercises on Dry Eye Syndrome and Dry Mouth

Hyunjin Kim (Kookje Univ., Korea) and Hyungoo Kang (Catholic Kwandong Univ., Korea)

[P3-010]

Comparison of Perceived Brightness and Colorfulness vs. Display Technology

Steffen Reichel, Karlheinz Blankenbach, Pascal Ulmer, Lukas Eger (Pforzheim Univ., Germany), and Dale Stoltzka (Samsung Display Co., Ltd. America Lab, USA)

[P3-011]

A Measurement for Capturing the Loss of Details in Dark Images

Inhye Heo, Hyungsuk Hwang, Hyunah Suh, Hyosun Kim, Dongyeol Yeom, and Yongwoo Yi (Samsung Display Co., Ltd., Korea)

[P3-012]

Effects of Surrounding Conditions on Color Discrimination of Aerial Images

Tomoya Tonomura (Yamagata Univ., Japan), Haruki Mizushima (Shinshu Univ., Japan), Hirotsugu Yamamoto, Shiro Suyama (Utsunomiya Univ., Japan), Kenji Yamamoto (Tokushima Univ., Japan), and Yasuki Yamauchi (Yamagata Univ., Japan)

[P3-013]

Effects on Reading Speed from Lighting, Display Condition, and Letter Strokes

Hyeran Kang, Junyeong Kim (Yeungnam Univ., Korea), Hayoung Lee (Kyungpook Nat'l Univ., Korea), Nahyeon Kim, Chan-Su Lee (Yeungnam Univ., Korea), and Arnold Wilkins (Univ. of Essex, UK)

[P3-014]

Nano Structure Optical Sensor for Detection of Troponin T

Sehyuk Yeom, Sanghoon Jung, Jae-Sung Lee, Byoungcho Kang, Sae-Wan Kim, and Wang-Hoon Lee (GERI, Korea)

[P3-015]

Influence of Plasticizers on the Mechanical Properties of Carboxymethyl Cellulose-Based Conductive Films for Wearable Electronics

Seoyeon Kim, Hyunjun Jang (Hanbat Nat'l Univ., Korea), Jooho Lee (Hanbat Nat'l Univ. & ETRI, Korea), Baeksang Sung, Hyerin Kang, Sohee Jang, Jae-Hyun Lee (Hanbat Nat'l Univ., Korea), Yong-Hyun Kim (Pukyong Nat'l Univ., Korea), and Jonghee Lee (Hanbat Nat'l Univ., Korea),

[P3-016]

Scattering-Based Optoelectronic Pressure and Strain Sensor Using TiO₂ PDMS Composite Film

Beom-Jun Lee and Sang Min Won (Sungkyunkwan Univ., Korea)

[P3-017]

Transparent Uniformly Stretchable Heating Organic Light-Emitting Diodes with Kirigami Pattern: Toward Textile-Based Wearable Theragnosis Applications

Seojin Kim, Sang Jik Kwon, Eou-Sik Cho (Gachon Univ., Korea), and Yongmin Jeon (Kyung Hee Univ., Korea)

[P3-018]

Non-Invasive Neonatal Jaundice Theragnosis Using the Wearable Textile-Based Blue Organic Light Emitting Diode and Organic Photodiode

Chaeyeong Lee, Sang Jik Kwon, Eou-Sik Cho (Gachon Univ., Korea), and Yongmin Jeon (Kyung Hee Univ., Korea)

[P3-019]

Soft Artificial Finger Pad with Identifiable Wrinkles

Juyeong Lee and Kyoseung Sim (UNIST, Korea)

[P3-020]

Multi-Wavelength Hydrocolloid Based Stretchable Quantum Dots Organic Light Emitting Diodes Patch: Simultaneous Sensing and Photomedicine

In Ho Kim, Young Woo Kim, Sang Jik Kwon (Gachon Univ., Korea), Oh Kwan Kwon (InnoQD Co., Ltd., Korea), Eou-Sik Cho (Gachon Univ., Korea), and Yongmin Jeon (Kyung Hee Univ., Korea)

[P3-021]

Enhanced Interfacial Adhesion for All-Soft Vertical OPDs via Chemical and Physical Strategies

Haechan Park, Daeun Kim, and Kyoseung Sim (UNIST, Korea)

[P3-022]

Microneedle-Integrated Organic Light-Emitting Diodes for Synergistic Light and Drug Delivery in Wearable Biomedical Systems

Dongjun Kim (KyungHee Univ., Korea), Min Sung Park, Eou-Sik Cho (Gachon Univ., Korea), Sanha Kim, Na Young Yoo, Sookie La, Do Hyeon Jong (Raphas Co., Ltd., Korea), and Yongmin Jeon (KyungHee Univ., Korea)

[P3-023]

Wearable OLED Electroceutical Cap Platform Utilizing 40 Hz Red-Light Visual Stimulation for the Treatment of Canine Cognitive Dysfunction Syndrome

Young Hun Jung, Minwoo Park (KAIST, Korea), Yunhye Kim (Jeonbuk Nat'l Univ., Korea), Byeongju Noh (KAIST, Korea), Jiyun Lee, Ji-Eun Lee, Ja Wook Koo (Korea Brain Research Inst. & DGIST, Korea), Chul Park (Jeonbuk Nat'l Univ., Korea), and Kyung Cheol Choi (KAIST, Korea)

[P3-024]

Transparent OLEDs With Single-Mask '+'-Patterned Mesh Electrodes for Potential PPG Sensor Applications

Dong Gyun Kim, Young Woo Kim, Eou-Sik Cho, and Sang Jik Kwon (Gachon Univ., Korea)

[P3-026]

Multifunctional Hydrocolloid Smart Patch based on Red OLED and OPD: Simultaneous Implementation of Diagnosis and Phototherapy

Minseong Park, Jae-Young Jeong, Sang Jik Kwon, Eou-Sik Cho (Gachon Univ., Korea), and Yongmin Jeon (Kyung Hee Univ., Korea)

[P3-027]

Textile-Based Stretchable OLED for Motion-Stable PPG Measurements

Ye Ji Shin, Sang Jik Kwon, Eou-Sik Cho (Gachon Univ., Korea), and Yongmin Jeon (Kyung Hee Univ., Korea)

[P3-028]

Bio-Organic Light-Emitting Diode Patch with Low Voltage and High Efficiency for Human Body Attachment

Hyeonseong An and Jeong Hyun Kwon (Chungbuk Nat'l Univ., Korea)

[P3-029]

Study on the Transition of Photodiode-Photoconductor Operation Modes by Adjusting the Active Layer Ratio in Organic Photodetectors

Sinhui Min, Seong Jin Lee, Juwan Lee, Dong Hyun Kim, and Donggu Lee (Gyeongsang Nat'l Univ., Korea)

[P3-030]

Self-Powered Cu-In-Se Quantum Dot Photodiodes for Wearable Photoplethysmographic Monitoring

Shi Li (DGIST, Korea), Jae Hong Jang, Moon Kee Choi (UNIST, Korea), and Jiwoong Yang (DGIST, Korea)

[P3-031]

Implementation of a Stretchable Neuromorphic Integrated System based on Artificial Synaptic Devices

Seongsik Jeong, Hyeseon Jo, Taesik Kong, Donghyeon Seo, and Hae-Jin Kim (Yonsei Univ., Korea)

[P3-032]

Intrinsically Stretchable Ferroelectric Synaptic Memory via Cross-Linked P(VDF-TrFE) for Biomimetic Neural Systems

Taesik Kong, Seongsik Jeong, and Hae-Jin Kim (Yonsei Univ., Korea)

[P3-033]

Aerial Projection Screen Using Fluffy Cotton Candy Made from Sugar Syrups for Aero Signage Which Enables to Pass Through Floating Images

Kunio Sakamoto and Yuuta Tokura (Konan Univ., Japan)

[P3-034]

Efficient Algorithm to Simulate and Optimize a Multilayer Spaceplate

Hak-Ryeol Lee and Sun-Je Kim (Soongsil Univ., Korea)

[P3-035]

Al Doping Concentration Effects in HfO₂ Ferroelectric Memory Fabricated via Low-Temperature PDA Annealing

Yumeng Guo, Zhong Pan, Junzhe Zhang, Fucheng Wang, Jingwen Chen, Yunhui Jang, and Hyunseo Park, Yong-Sang Kim, Jang-Kun Song, Muhammad Quddamah Khokhar, and Junsin Yi (Sungkyunkwan Univ., Korea)

[P3-036]

Effective Suppression of Leakage Current in SnO₂ Thin Films Enabled by Low-Concentration Al Doping

Junzhe Zhang, Zhong Pan, Yumeng Guo, Yunhui Jang, Mengmeng Chu, Jangkun Song, Yongsang Kim, Sangmin Hong, Muhammad Quddamah Khokhar, and Junsin Yi (Sungkyunkwan Univ., Korea)

[P3-037]

Formation of Ni₃In₂Se₂ Alloy via Annealing of Ni-Deposited InSe Flakes

Taehyuk Jang and Jin-Hong Park (Sungkyunkwan Univ., Korea)

[P3-038]

Covalent Heterostructures of Ultrathin Amorphous Carbon Nitride and Si for High-Performance Vertical Photodiodes

Hyojin Seung, Jinsol Bok, Ji Su Kim, and Dae-Hyeong Kim (IBS & Seoul Nat'l Univ., Korea)

[P3-039]

Interface-Modified Nickel Oxide Hole Transport Layers for Highly Efficient Perovskite Light-Emitting Diodes

Hyungdoh Lee and Himchan Cho (KAIST, Korea)

[P3-040]

Oxidative Defect Removal in Eco-Friendly InP Quantum Dot Synthesis via In Situ HF Etching: Experimental and First-Principles Insights

Awais Ali (Korea Univ., Korea), William A. Goddard III (California Inst. of Tech., USA), Muhammad Imran (Univ. of Toronto, Canada), and Soong Ju Oh (Korea Univ., Korea)

[P3-041]

Enhancement of Memory Window in Capacitorless DRAM based Oxide TFT through Threshold Voltage Control Strategy

Chahwan Yang, Mirinae Lee (ETRI & Univ. of Science and Tech., Korea), Junghoon Han (ETRI & Korea Univ., Korea), and Sooji Nam (ETRI & Univ. of Science and Tech., Korea)

[P3-042]

Spectroscopic Insight into Customized Iodine Ligands Passivated Red-Emitting CsPb(Br,I)₃ Perovskite Nanocrystals via Time-Resolved Photoluminescence

Hyun Jae Lee (Dongguk Univ., Korea), Jae Yong Suh (Michigan Technological Univ., USA), Sungho Choi (KRICT, Korea), Seung Yoon Ryu (Dongguk Univ., Korea), and Chul Hoon Kim (Korea Univ., Korea)

[P3-043]

Fabry-Perot Structured Electrochromic Technology with Tunable Color and Infrared Reflectance for Adaptive Camouflage Applications

Jae Woo Seo (Hanyang Univ. & ETRI, Korea), Ju Hyun Park (ETRI & Korea Univ., Korea), Yongjun Lee, Chil Seong Ah, Jisu Han, Juhee Song (ETRI, Korea), Nuri Oh (Hanyang Univ., Korea), and Tae-Youb Kim (ETRI, Korea)

[P3-046]

High-Performance Oxide TFTs via Heterojunction Engineering for Low-Power Applications

Jung Hoon Han (ETRI & Korea Univ., Korea), MiRiNae Lee, Chahwan Yang (Univ. of Science and Tech., Korea), Byeong-Kwon Ju (Korea Univ., Korea), and Sooji Nam (ETRI & Univ. of Science and Tech., Korea)

[P3-047]

Carrier Type Modulation of ALD SnO₂ Thin Films via Low-Temperature D₂ Plasma Treatment for Thin-Film Transistor Applications

Hyejeong Jin, Zhong Pan, Junhan Bae, Yunhui Jang, Seokjin Jang, Sangheon Park, and Junsin Yi (Sungkyunkwan Univ., Korea)

[P3-048]

Fabrication of Meta-Mirror Surfaces based on Nano-Imprint Lithography for Ultra-Realistic Displays

YoonJeong Lee (KIMM & Hanyang Univ., Korea), YoungYoon Lim (KIMM & Chungnam Nat'l Univ., Korea), Yunji Eom, JooHyung Lee, Soongeun Kwon (KIMM, Korea), Nuri Oh (Hanyang Univ., Korea), Seung-Yeol Lee (Kyungpook Nat'l Univ., Korea), Hyungjun Lim, and Hak-Jong Choi (KIMM, Korea)

[P3-049]

Scalable Fabrication of High-Resolution GaN Nanorod Array for Ultra-Realistic Display Applications

Youngyoon Lim (KIMM & Chungnam Nat'l Univ., Korea), JooHyung Lee (Hanyang Univ., Korea), YoonJeong Lee (KIMM & Hanyang Univ., Korea), Yunji Eom, Soongeun Kwon, Hyungjun Lim (KIMM, Korea), Yong-Ho Ra (Jeonbuk Nat'l Univ., Korea), Jeong-Hong Min (KOPTI, Korea), and Hak-Jong Choi (KIMM, Korea)

[P3-050]

Photospike-Based True Random Number Generation for Secure Image Processing in the Age of AI

Juhyung Seo (Hanyang Univ., Korea), Seungme Kang, Taehyun Park (Gachon Univ., Korea), and Hocheon Yoo (Hanyang Univ., Korea)

[P3-051]

Vacuum-Deposited Polymer Dielectric for Scalable Stretchable Electronics

Juchan Kim, Juyeon Kang, and Sung Gap Im (KAIST, Korea)

[P3-052]

Additive-Free Thermally Evaporated Tin Halide Perovskite Transistors

Wonryeol Yang, Wantae Park, Youjin Reo, Soohwan Yoo, Sungjae Cho, and Yong-Young Noh (POSTECH, Korea)

[P3-053]

Van der Waals Thin Film Transistors for Stretchable Displays

Seongmin Heo, Taoyu Zou, Gwon Byeon, Gi-Seong Ryu, and Yong-Young Noh (POSTECH, Korea)

[P3-054]

Threshold Voltage Engineering in Dual-Gated MoS₂ Field-Effect Transistor

Se Hee Lee and Jin-Hong Park (Sungkyunkwan Univ., Korea)

[P3-055]

Highly parallel and Ultra-Low-Power Probabilistic Reasoning with Programmable Gaussian-like Memory Transistor

Jeong-ik Park, Changhyeon Lee (KAIST, Korea), Junhwan Choi (Dankook Univ., Korea), Chungryel Lee (KAIST, Korea), Hocheon Yoo (Hanyang Univ., Korea), and Sung Gap Im (KAIST, Korea)

[P3-056]

Dopant Control of Solution-Processed CuI:S for Highly Conductive p-Type Transparent Electrode

Minki Son and Myung-Gil Kim (Sungkyunkwan Univ., Korea)

[P3-057]

Solid Electrolyte-Gated Indium-Gallium Oxide Transistors for Low-Power Computing Systems

Beop-Gun Son and Kang-Jun Baeg (Pukyong Nat'l Univ., Korea)

[P3-058]

Ultrasonic Spray Coated Gallium Doped Cadmium Oxide Thin Film Transistor for Advanced Electronic Applications

Azati Daniel Kofi and Kang-Jun Baeg (Pukyong Nat'l Univ., Korea)

[P3-059]

Transparent Ultraviolet Photodiode with Enhanced Responsivity and Optical Transparency for Continuous Healthcare Monitoring

Yu Bin Kim and Seong Jun Kang (Kyung Hee Univ., Korea)

[P3-060]

Improve the Stability of Quantum-Dot Light Emitting Diodes Using Inorganic HfO_x Hole Transport Layer

Jung Min Yun and Seong Jun Kang (Kyung Hee Univ., Korea)

[P3-061]

Enhanced Charge Balance in QLEDs Using Oxygen Vacancy in Nb_2O_5 Interfacial Layer

Min Jung Choi and Seong Jun Kang (Kyung Hee Univ., Korea)

[P3-062]

Photothermally Cross-Linked Zirconium-Oxo Cluster Thin Film for Multifunctional Dielectric Material

Yeong Min Sun and Myung-Gil Kim (Sungkyunkwan Univ., Korea)

[P3-063]

Control Color Purity and RGB Color Balance through Flexible Dual Fabry-Perot Interferometer

Keun Soo Shin and Yun Seon Do (Kyungpook Nat'l Univ., Korea)

[P3-064]

Adjustable Color-Purity and Optical Intensity by Metal-Insulator-Distributed Bragg Reflector Structure

Ho Yeong Im, Keun Soo Shin, Hyo Jong Cho, and Yun Seon Do (Kyungpook Nat'l Univ., Korea)

[P3-065]

Optimizing Electrical Properties of MoS_2 FETs through Thickness-Split Analysis and High- κ Interface Engineering

Yucheon Kim and Jin-Hong Park (Sungkyunkwan Univ., Korea)

[P3-066]

One-Step Printable Platform for Metasurface Using Nanoparticle-Embedded-Resin

Chanwoong Park, Seungyeon Lee, and Heonlee (Korea Univ., Korea)

[P3-067]

Bio-Inspired Organic Synaptor with In Situ Ion-Doped Ultrathin Polyelectrolyte Containing Acetylcholine-Like Cation

Youson Kim, Junyeong Yang, and Sung Gap Im (KAIST, Korea)

[P3-068]

Substrate-Free CsPbBr₃ Perovskite Visible-Light Photodetector by Simple Powder-Pressed Wafer Approach

Seungchae Jung (KITECH, Korea), Hee Jeong Park (KITECH & Korea Univ., Korea), Se-Woong Baek (Korea Univ., Korea), and Seunghwan Bae (KITECH, Korea)

[P3-069]

Localized Sound-Integrated Display Speaker Using Crosstalk-Free Piezoelectric Vibration Array

Inpyo Hong and Su Seok Choi (POSTECH, Korea)

[P3-070]

High-Sensitivity Thermistor Devices Incorporating Lead-Free Cs₂PdI₆ Layers via Drop-Casting Deposition.

Hanmin Kim, Nagaraju Mukurala, Yunsung Lee, Hyeonjong Lee (Incheon Nat'l Univ., Korea), and Sung Hun Jin (Kyung Hee Univ., Korea)

[P3-071]

Architected Nafion Electrolytes with Fibrillar Channels for Forceful, Fast Actuation

So Young Kim, Jeong Sub Lim, Minjeong Kim, Hanbin Choi, and Do Hwan Kim (Hanyang Univ., Korea)

[P3-072]

Biodegradable AZ₃, Mg Anode Paired with WO₃-Coated Mo Cathode for Sustainable Transient Batteries in Water Electrolysis

Hyeon-Bin Jo, Mukurala Nagaraju, Dhananjay Mishra, and Sung Hun Jin (Kyung Hee Univ., Korea)

[P3-073]

Mass Production of Metasurfaces Using BaTiO₃ Nanoparticle-Embedded Resin (nano-PER)

Seungyeon Lee, Chanwoong Park, Hansang Sung, Hyeonseong Yoon, and Heon Lee (Korea Univ., Korea)

[P3-075]

Metasurface Fabrication via Molecular Layer Deposition: Nanostructure Formation through Surface Engineering Using Small Molecule Inhibitor

Hae Lin Yang, Gi-Beom Park (Hanyang Univ., Korea), Jinhong Park, Kwang Heo (Sejong Univ., Korea), Bo Keun Park, Jung-Hoon Lee (KRICT, Korea), and Jin-Seong Park (Hanyang Univ., Korea)

[P3-076]

Enhanced Large-Area Graphene Transfer by Electrochemical Delamination: Role of Electrolytes in Doping Control

Eunjin Hwang (KIMM & Hanyang Univ., Korea), Dawoon Jo (KIMM, Korea), Seojin Hong, Kwang-Seop Kim, Jae-Hyun Kim, and Hyeon-Don Kim (KIMM & Univ. of Science & Tech., Korea)

[P3-077]

Additive-Engineered Oxidation Mitigation in Lead-Free Tin Perovskite Red Light-Emitting Diodes

Hee-Seung Lee and Jung-Yong Lee (KAIST, Korea)

[P3-078]

High-Performance P-Type TeFETs Enabled by Plasma-Induced Sub-Gap Engineering

Junho Lee, Uisik Jeong, and Sunkook Kim (Sungkyunkwan Univ., Korea)

[P3-079]

Fabrication and Optical Optimization of Nanopatterns via Nanosphere Lithography

Su Jin Kim, Jeong Min Park, Yongsu Lee, Han Soo Kim, Jang Ho Ha, and Chang Goo Kang (KAERI, Korea)

[P3-080]

Optoelectronic Diagnostic Sensor Integrated Colorimetric Dressing for Advanced Wound Care

Ji-Hwan Ha (Hanbat Nat'l Univ. & KIMM & KAIST, Korea), Byung-Ho Kang (KIMM & KAIST, Korea), Sohee Jeon, Soon Hyoung Hwang (KIMM, Korea), Inkyu Park (KAIST, Korea), and Jun-Ho Jeong (KIMM, Korea)

[P3-081]

Substitutional Doping Effect Induced by Direct AlN Deposition on MoS₂ Thin Films via Plasma-Enhanced Atomic Layer Deposition (PEALD)

Jungyoon Hur, Junyeon Hwang, Jaewon Lee, Jongseo Won, and Woonggi Hong (Dankook Univ., Korea)

[P3-082]

Self-Powered Strain Sensor based on Piezo-Transmittive Auxetic Metamaterials

Junseong Ahn (Korea Univ. & KIMM & KAIST, Korea), Ji-Hwan Ha (KIMM & KAIST & Hanbat Nat'l Univ., Korea), Sohee Jeon (KIMM, Korea), Inkyu Park (KAIST, Korea), and Jun-Ho Jeong (KIMM, Korea)

[P3-083]

Surface Defect Suppression via Ligand Exchange for High-Performance PeQD LEDs

Seyun Lee, Sungwook Shin, and Jung-yong Lee (KAIST, Korea)

[P3-085]

Self-Powered Piezoionic Pressure Sensor with a Reinforced Hydrogel Structure

Jong-An Choi (KIMM & KAIST, Korea), Sohee Jeon, Soon Hyoung Hwang (KIMM, Korea), Inkyu Park (KAIST, Korea), and Jun-Ho Jeong (KIMM, Korea)

[P3-086]

Rational Design of n-Dopant-Compatible Electron Transport Materials for Blue Tandem OLEDs

Aradhya Rajput, Subramanian Muruganantham, Jun Hyeog Oh, and Jang Hyuk Kwon (Kyung Hee Univ., Korea)

[P3-087]

Broadband IGZO Phototransistors via Plasma-Engineered Subgap States

Subin Lim, Hyun Yeol Rho, and Sunkook Kim (Sungkyunkwan Univ., Korea)

[P3-088]

Electrical Characteristics of MoS₂ FETs Tuned by Nitrogen Doping via PEALD-Grown AlN Interfacial Layers

Jaewon Lee, Junyeon Hwang, Jungyoon Hur, Jongseo Won, and Woonggi Hong (Dankook Univ., Korea)

[P3-089]

Electrochemical Exfoliation of Large Size MoS₂ Nanosheets by Using Mixture of THA⁺ and 4-NBD⁺

Gwon Byeon, Seongmin Heo, and Yong-Young Noh (POSTECH, Korea)

[P3-090]

Gate-Tunable Positive-Negative Photoconductivity in SWNT/Te Heterojunction Transistors for Intelligent Display Application

Bokyoung Kim (Incheon Nat'l Univ., Korea), Jae Jun Lee (Kyung Hee Univ., Korea), Sung Hun Choi, and Sang Seung Gwak (Incheon Nat'l Univ., Korea), and Sung Hun Jin (Kyung Hee Univ., Korea)

[P3-091]

Green Nanotransfer Printing for Curved and Biological Substrates

Byung-Ho Kang (KIMM & KAIST, Korea), Sohee Jeon (KIMM), Soon Hyoung Hwang (KIMM), Inkyu Park (KAIST, Korea), and Jun-Ho Jeong (KIMM, Korea)

[P3-092]

Optical Elements Using Hard or Cotton Candy Layer for Aero Signage which is Floating in the Air and Enables to Keep Shapes during Display of Aerial Images

Kunio Sakamoto and Seiichi Ueda (Konan Univ., Japan)

[P3-093]

Optical Performance Enhancement of Carbon Black Doped Polymer-Dispersed Liquid Crystals

ChaeLim Han, Yeon Jin Han, Young Jin Lim, Seung Jai Kim, Seung Hee Lee, and MinSu Kim (Jeonbuk Nat'l Univ., Korea)

[P3-094]

Wideband +c-Plate Retarder Made from ZnO Nanorods

Manh-Thang Tran, Nguyen-Hung Tran, and Ji-Hoon Lee (Jeonbuk Nat'l Univ., Korea)

[P3-095]

Photoluminescence Emission Control and Blue Light Leakage Suppression in Quantum Dot Light Emitting Diode (QD-LED) via Voltage-Driven Liquid Crystal Droplet and Red-Dye Composites

GyuRi Choi, HaYoung Jung, Seung Hee Lee, and MinSu Kim (Jeonbuk Nat'l Univ., Korea)

[P3-096]

Theoretical Analysis and Solution of Line Image Sticking of High Refresh Rate Monitor

Ji Wu, An-Thung Cho, Yong Zhang, James Hsu, and Wade Chen (ChuZhou HKC Optoelectronics Tech. Co., Ltd., China)

[P3-097]

TFT Reliability Stress Model Simulation is used for G8.6 Large Size TFT-LCD

You-Zheng Lu, An-Thung Cho, Lu Mao, Feng-Yun Yang, Ting-Ting Ruan, Zhang Young, Bing Han, James Hsu, and Wade Chen (ChuZhou HKC Optoelectronics Tech. Co., Ltd., China)

[P3-098]

Influence of Porogen-Induced Nanoporosity and Molecular Alignment on the Dielectric Properties of Liquid Crystal Polymers Films

Baekman Kim, Geunjung Lee (KAIST, Korea), Jongseok Kim (Chungnam Nat'l Univ., Korea), Tae Gyun Hong, Geunho Kim (KAIST, Korea), Yeongsik Kim, Hyungju Ahn (POSTECH, Korea), Yun Ho Kim (KRICT, Korea), Hyun You Kim (Chungnam Nat'l Univ., Korea), and Dong Ki Yoon (KAIST, Korea)

[P3-099]

Chiral Self-Assembly of Liquid Crystal and Use as a Polymerization Template

Jeong Yeon Han (KAIST, Korea), Fumito Araoka (RIKEN Center, Japan), and Dong Ki Yoon (KAIST, Korea)

[P3-100]

Circularly Polarized Emission depending on Thickness of Twisted Mesogenic Luminophore

Ye-Kang Ku, So-Young Sim, Tae-Yang Kim, Jae-Hoon Kim, and Chang-Jae Yu (Hanyang Univ., Korea)

[P3-101]

Thermally Driven Polarized Emission from an Aligned Luminophore with a Patterned Reactive Mesogen

Gi-Eun Kim, Jung-Hyun Lee, Ye-Kang Ku, Jae-Hoon Kim, and Chang-Jae Yu (Hanyang Univ., Korea)

[P3-102]

Electrically Tunable Complex Reflectivity Modulation across the Visible Spectrum Using a Liquid Crystal-Integrated Metasurface

Kyunghee Choi, Jong-Heon Yang, Chi-Sun Hwang, Jaehyun Moon, and Yong-Hae Kim (ETRI, Korea)

[P3-103]

Low-Voltage, Fast-Response 3D-2D Display Using Polyimide Less Liquid Crystal Lenticular Lens Arrays

Sun-Kuk Kim, Seung-ho Hong (Sungkyunkwan Univ., Korea), Yu-Kyung Lee (Samsung Display Co., Ltd., Korea), and Jang-Kun Song (Sungkyunkwan Univ., Korea)

[P3-104]

Electrothermally Tunable Cholesteric Liquid Crystal Lasers

Hyerin Kim, Jung Woo Park, Chaeyeong Yun (POSTETCH, Korea), Seungmin Nam (Chosun Univ., Korea), Wontae Jung, and Su Seok Choi (POSTETCH, Korea)

[P3-105]

Tunable Dual-Photonic Bandgaps based on Chiral Liquid Crystals within Polymer Templates

Wontae Jung, Chaeyeong Yun, Jung Woo Park, and Su Seok Choi (POSTECH, Korea)

[P3-106]

Electrically Tunable Double Layered Chiral Liquid Crystals with Optical Rotation Systems

Jung Woo Park, Hyerin Kim, Wontae Jung, and Su Seok Choi (POSTECH, Korea)

[P3-107]

Mechanochromic Fibers via Dip-Coating of Cholesteric Liquid Crystal Elastomers on Commercial Textile Cores

Seohyun Woo, Ji Yoon Park, Sang Hyun Han, and Su Seok Choi (POSTECH, Korea)

[P3-108]

Stretchable Circular Polarized Color Change by Recovering Microstructure of Chiral Liquid Crystal Elastomers (CLCEs)

Sang Gyeong Nam, Ji Yoon Park, and Su Seok Choi (POSTECH, Korea)

[P3-109]

Pixelated Chiral Guest-Host Liquid Crystal Film for Selective Dimming Applications

Won-Been Do, Chan-Hee Han, Chae-Yeong Yoon, and Su-Seok Choi (POSTECH, Korea)

[P3-110]

Redefining Actuating Fiber Limits through Mesophase Control: From Contraction to Elongation

Jin-Hyeong Lee, Seungjoon Oh, and Suk-kyun Ahn (Pusan Nat'l Univ., Korea)

[P3-111]

Tailoring Mechanochromic Responses in Spiropyran-Incorporated Liquid Crystal Elastomers via Direct-Ink-Writing

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