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[P3-001] 14:00–15:30

**High-Efficiency Quad-Colored White Tandem Quantum Dot-Light-Emitting Diodes based on Non-Cd Quantum Dots**


[P3-002] 14:00–15:30

**Bonding Characteristics of the PEI Interlayer for a Two-Substrates OLED**


[P3-003] 14:00–15:30

**Highly Stable Methacrylate-Functionalized Perovskite Nanocrystal/Siloxane Composite for Color-Conversion Layer in Display**

Yongmin Shin (KAIST, Korea), Byung-Hwa Kwon (ETRI, Korea), Junho Jang, and Byeong-Soo Bae (KAIST, Korea)

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**Improvement of OLED Display Quality through Light Scattering**

Hong Yeon Lee, Seung Yeon Jeong, Oh Jeong Kwon, Hye Ji Kang, Su Jeong Kim, Duck Jong Suh, and Sung Han Kim (Samsung Display Co., Ltd., Korea)

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**A Study on the Role and Specifications of Black Matrix Materials in OLED**

Su Jeong kim, Jong-Ho Son, Jinhyeong Lee, Mihwa Lee, and Sung Han Kim (Samsung Display Co., Ltd., Korea)
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<td>Indolocarbazole Based Photo-Cross-Linkable Polymer for Solution-Processed Organic Light-Emitting Diodes</td>
<td>Jeong Yong Park and Do-Hoon Hwang (Pusan Nat’l Univ., Korea)</td>
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<td>Seon Lee Kwak and Do-Hoon Hwang (Pusan Nat’l Univ., Korea)</td>
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<td>Halogenated Multiple Resonance Thermally Activated Delayed Fluorescence Emitters with Enhanced Reverse Intersystem Crossing Rates</td>
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<td>Development of UV Photodetector based on Organic/Inorganic Hybrid Materials</td>
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<td>Yeon Jae Choi, Kyeoung Wan Kim, Tae Hoon Ha, Jeong-Yeol Yoo, Byung Doo Chin, and Chil won Lee (Dankook Univ., Korea)</td>
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Enhanced Light Extraction of Organic Light-Emitting Diode Using Low Temperature and Pressure Microcontact-Printed Microlens Array
Subin Hwa, Baeksang Sung, Jonghee Lee, and Min-Hoi Kim (Hanbat Nat’l Univ., Korea)

Surface Passivation via Chlorine Ion Doping for Highly Stable Formamidinium-Based Tin Perovskite Solar Cells
Jinhyeok Choi and Kilwon Cho (POSTECH, Korea)

Multifunctional Encapsulation Using Perovskite Nanoparticles for Efficient Color Conversion Organic-Light Emitting Diodes
Hyungwoo suh (ETRI, Korea), Yongmin Shin, Junho Jang (KAIST, Korea), Hyunsu Cho, Chul Woong Joo, Sukyung Choi, Jin-Wook Shin, Chan-mo Kang, Dae Hyun Ahn, Yoongsung Yoo (ETRI, Korea), Won Jun Lee (Dankook Univ., Korea), Byeong-Soo Bae (KAIST, Korea), and Byoung-Hwa Kwon (ETRI, Korea)

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Sangwoo Kim, Kwang Soo Bae, Young Je Cho, Gun Hee Kim, Sang Hwan Cho, and Sung-Chang Jo (Samsung Display Co., Ltd., Korea)

Picolinate Ligand-Assisted Deep-Red Emissive Ir(III) Complex Phosphorescent Emitter
Chanhyeok Kim, Taehyun Kim, and Taiho Park (POSTECH, Korea)
[P3-019] Improvement in Quantum Yield of FAPbBr₃ Perovskite Nanocrystals by Zwitterionic Ligand Surface Treatment
Inyoung Jeong, Kyeongwan Kang, Minwoo Lee, Sooyeon Yeon, and Nuri Oh (Hanyang Univ., Korea)

[P3-020] Substituent Engineering and Intermolecular Distancing Effects for Aggregation Induced Emissive Iridium(III) Complexes Based Solution-Processable PhOLEDs
Taehyun Kim, Chanhyeok Kim, and Taiho Park (POSTECH, Korea)

[P3-021] Optical Analysis of Tandem Organic Light-Emitting Diodes: Revisiting the Notion of Efficiency Doubling
Seyoung Yoon, Woochan Lee, Junho Kim, and Seunghyup Yoo (KAIST, Korea)

[P3-022] Minimized Blue Light Leakage of Green Quantum Dot Passing Through Blue Light Source
Cheong-Min Shin, Byoung-Hwa Kwon (ETRI, Korea), Chang-Jae Yu, and Jae-Hoon Kim (Hanyang Univ., Korea)

Seokyeong Lee, Jin Woo Oh, Jihye Jang, Yeonji Kim, Kaiying Zhao, and Cheolmin Park (Yonsei univ., Korea)

[P3-024] Body-Attached Wearable OLED Medical Device for Therapeutic Effects
Yongjin Park, Hagseon Kim (KAIST, Korea), Hye-Ryung Choi(SNUBH, Korea), Yongmin Jeon (Gachon Univ., Korea), Jung Won Shin (SNUBH, Korea), and Kyung Cheol Choi (KAIST, Korea)
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Enhancement of Mechanical Properties based on Deformable–Covalently Attachable IPNs for Foldable Electronics
Seokran Choi, Hyukmin Kweon, Ukjin Jeong, Borina Ha, Jiyeon Ha, and Do Hwan Kim (Hanyang Univ., Korea)

Ultra–High Sensitive Au–Doped Silicon Nanomembrane Based Wearable Sensor Arrays for Continuous Skin Temperature Monitoring with High Precision
Mingyu Sang, Kyowon Kang, and Ki Jun Yu (Yonsei Univ., Korea)

Sensitive and Self–healing Strain Sensor for Respiration Monitoring in Normal Environment/Underwater
Zhengyang Kong, Joo Sung Kim, Hanbin Choi, Dong Jun Kim (Hanyang Univ., Korea), Wu Bin Ying (CAS, China) and Do Hwan Kim (Hanyang Univ., Korea)

Silent Speech Recognition Using Crystalline Silicon Based Strain Sensor
Taemin Kim, Kyowon Kang, Kiho Kim, Kwanho Kim, and Ki Jun Yu (Yonsei Univ., Korea)

All Biocompatible Hybrid Composite based on Piezo–Triggered Ionic Conduction for Implantable Bioelectronics
Jihong Kim, Joo Sung Kim, Ritamay Bhunia, Dongjun Kim, Bo Kyung Kim, Hayoung Oh, and Do Hwan Kim (Hanyang Univ., Korea)

A Soft and Biodegradable Polymer Based Multi–channel Waveguide for Optogenetics
Myeongki Cho and Ki Jun Yu (Yonsei Univ., Korea)

Fully Implantable, Wireless Optoelectronic Devices for Photodynamic Therapy and Photodynamic Diagnosis
Kiho Kim, Insik Min, and Ki Jun Yu (Yonsei Univ., Korea)
[P3-038] 14:00–15:30

Self-Healable N-type Conjugated Polymers for Field-Effect Transistors

Zi-En Chiang (Nat'l Taipei Univ. of Tech., Taiwan), Tzung-You Han (Nat'l Tsing-Hua Univ., Taiwan), Hao-Yang Chen, Chia-Ju Lee, Mao-Chun Fu, Hsin-Chiao Tien (Nat'l Taipei Univ. of Tech., Taiwan), Ho-Hsiu Chou (Nat'l Tsing-Hua Univ., Taiwan), Tomoya Higashihara, and Wen-Ya Lee (Nat'l Taipei Univ. of Tech., Taiwan)

[P3-039] 14:00–15:30

N-Type Self-Doping Effect in Conjugated Polymer through Ami-Nopropyl Side Chain Engineering for Field-Effect Transistors

Ting-Feng Yu, Ming-Yu Wen (Nat'l Taipei Univ. of Tech., Taiwan), Mao-Chun Fu, Uran Sato (Yamagata Univ., Japan), Chen-Tsyrr Lo (Nat'l Sun Yat-Sen Univ., Taiwan), Tomoya Higashihara (Yamagata Univ., Japan), and Wen-Ya Lee (Nat'l Taipei Univ. of Tech., Taiwan)

[P3-040] 14:00–15:30

Stretchable Polymer Semiconductors for Field-Effect Transistors and Artificial Synaptic Transistors

Hsin-Chiao Tien, Wei-Ting Liao, and Wen-Ya Lee (Nat'l Taipei Univ. of Tech., Taiwan)

[P3-041] 14:00–15:30

Near Infrared Organic Light Emitting Diodes Using Micro-Cavity Effect for Bio-Phototherapy

Eun Hae Cho, Yongjin Park (KAIST, Korea), Yun Chi (City Univ. of Hong Kong, Hong Kong), and Kyung Cheol Choi (KAIST, Korea)

[P3-042] 14:00–15:30

Bioinspired Triboelectric Nanogenerator Sensor for Self-powered Gait Analysis and Long-Term Postoperative Monitoring

P.H. Wei, Y.H Tseng, C.Yeh, F.C Kao, and Z.H. Lin (Nat'l Tsing Hua Univ., Taiwan)

[P3-043] 14:00–15:30

Optically Optimized Tissue Oximeter by Controlling Light Penetration into Tissue with Compact Configuration

Min Hyung Kang (KETI, Korea), Gil Ju Lee (Pusan Na'l Univ., Korea), Young Min Song(GIST, Korea), and Young Kyu Hong (KETI, Korea)
[P3-044] 14:00–15:30

Functionalized MoSe$_2$ Nanosheets Incorporated in Active Layer for High Performance Bulk Heterojunction Organic Solar Cells and X-ray detectors

Hailiang Liu, Jehoon Lee, Seonyeong Kim, Eunji Hong, and Jungwon Kang (Dankook Univ., Korea)

[P3-045] 14:00–15:30

Frequency-Selective Acoustic and Haptic Smart Skin for Dual-Mode Dynamic/Static Human-Machine Interface

Dong-hee Kang, Jonghwa Park, Heeyoung Chae, Sujoy Kumar Ghosh (UNIST, Korea), Changyoon Jeong (Yeungnam Univ., Korea), Yoojeong Park, Seungse Cho, Youngoh Lee, Jinyoung Kim, Yujung Ko, Jae Joon Kim, and Hyunhyub Ko (UNIST, Korea)

[P3-046] 14:00–15:30

Battery-Free, Fully Implantable Bladder-Integrated Optoelectronic System for Wireless Monitoring—and Treatment of Chronic Urinary Bladder Dysfunction

Tae-Min Jang, Joong Hoon Lee (Korea Univ., Korea), Eunkyoung Park (Soochunhyang Univ., Korea), Kyu-Sung Lee (Sungkyunkwan Univ. School of Medicine, Korea), and Suk-Won Hwang (Korea Univ., Korea)

[P3-047] 14:00–15:30

Stretchable Hydration Sensor for Skin Water Loss Detection based on Polyvinyl Alcohol/Lithium Chloride Composite

Sangyun Na, Jeonghee Yeom, Yoojin Chang, Yeju Kwon, Young-Eun Shin, Yong-Jin Park, and Hyunhyub Ko (UNIST, Korea)

[P3-048] 14:00–15:30

RED Organic Light-Emitting Diodes Attached to DNA Film for Bio-Compatible Phototherapy

Hye Jeong Yeon, Ju Ri Kim, Yongjin Park, Eun Hae Cho, Dong Ki Yoon, and Kyung Cheol Choi (KAIST, Korea)

[P3-049] 14:00–15:30

Bioresorbable Soft Brain Implants for Neurochemical Monitoring

Seung Min Yang, Jae Hyung Shim (Korea Univ., Korea), Hyun-U Cho (Hanyang Univ., Korea), Chul-Ho Lee (Korea Univ., Korea), Dong Pyo Jang (Hanyang Univ., Korea), and Suk-Won Hwang (Korea Univ., Korea)
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Skin-Attachable and High-Performance Organic Printed Active-Matrix Devices for Health Monitoring Platform

Woojo Kim (POSTECH, Korea), Keehoon Kang (Seoul Nat'l Univ., Korea), Christian Bech Nielsen (Queen Mary Univ. of London, UK), and Sungjune Jung (POSTECH, Korea)

[P3-058] 14:00–15:30

Fabrication and Characterization of Stretchable Electrodes on a Biaxially Pre-Strained PDMS Substrate for Biosensing Applications

Gihak Kim, Jonghyun Jeong (Chungbuk Nat'l Univ., Korea), Hyunjong Kim (SMDsolutions Co., Ltd., Korea), and Jaewook Jeong (Chungbuk Nat'l Univ., Korea)

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Improved Image LAG Performance Using Reset Transistor on TFT X-Ray Sensor

Hanbin Jang (Dankook Univ., Korea), Jinwook Heo (Biosenstech Inc., Korea), and Eunju Lim (Dankook Univ., Korea)

[P3-061] 14:00–15:30

Design Rules for Skin Attachable Inkjet Printed Active Array Devices

Gyungin Ryu and Sungjune Jung (POSTECH, Korea)

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Micro-Lens Encapsulation of Micro/Mini LED Using Thixotropic Siloxane Resin for High Light Extraction

Byung Jo Um, Seung-mo Kang, Hyunhwan Lee, Junho Jang, and Byeong-Soo Bae (KAIST, Korea)

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Investigation of Confocal Scanning Electroluminescence from InGaN-based Microscale Light-Emitting Diodes

Yuna Lee, Jinwoo park, and Jaekyun Kim (Hanyang Univ., Korea)
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JooHan Bae, Dong-Gu Kim, SangJin Min, Jong-In Shim, and Dong-Soo Shin (Hanyang Univ.ERICA, Korea)

Nonvolatile Memory Device for Processing-in-Memory (PIM) Using Perovskite Materials

Seung Jae Lee and JungYong Lee (KAIST, Korea)

Integration Structure Analysis of Capacitive Touch Sensor and Coplanar Waveguide for Display Antenna Technology

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

Piezoelectric Display Speaker Design with Enclosure System Using Boundary Element Analysis

In Pyo Hong, Sang Hyun Han, Da Hyun Ryu, and Su Seok Choi (POSTECH, Korea)

Improved Performance of Organic Photodetector Using Doped Zinc Oxide Interfacial Layer

Ri Gyeong Kwon, Jae Min Jeon, Jin Ho Park, Woo Jin Jeong, Hee Jung Kwak, and Jun Young Kim (Gyeongsang Nat'l Univ., Korea)

Environmentally-Adaptive Stretchable Human Motion Monitoring Strain Sensor based on Serpentine-Shaped Ion Gel Film

Yongjun Song, Dawoon Lee, and Jaekyun Kim (Hanyang Univ., Korea)

Robust and Wear-Resistant UV-Crosslinked Protective Layer for Flexible Sensors

Hee Seon Choi, Do-Gwan Kim, Kang-Han Kim, HyeongJung Kim (KITECH, Korea), Kuk Young Cho (Hanyang Univ., Korea), and Yong-Cheol Jeong (KITECH, Korea)
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Hyeongrae Lee and Doh C. Lee (KAIST, Korea)

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Hyejeong Jang and Doh C. Lee (KAIST, Korea)

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