

Session Title:	P3. Poster Session 3
Session Date:	August 26 (Fri.), 2022
Session Time:	14:00-15:30
Session Room:	Room 2A Hall

[P3-001] 14:00-15:30

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

Suk-Young Yoon, Sun-Hyoung Lee, Yang-Hee Kim, Ali Imran Channa, Seoyeon Park, Hyun-Min Kim, Hyo-Jin Yeo and Heesun Yang (Hongik Univ., Korea)

[P3-002] 14:00-15:30

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

Jun-Yeong Lee, Tae-Jin Lee, Dong-Heon Yoo, Yoen-Wook You, Chang-Min Yoon, and Cheol-Hee Moon (Hoseo Univ. Korea)

[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)

[P3-004] 14:00-15:30

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)

[P3-005] 14:00-15:30

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)

[P3-006]

14:00-15:30

Indolocarbazole Based Photo-Cross-Linkable Polymer for Solution-Processed Organic Light-Emitting Diodes

Jeong Yong Park and Do-Hoon Hwang (Pusan Nat'l Univ., Korea)

[P3-007]

14:00-15:30

Synthesis and Properties of Thermally Cross-linkable New Hole-Injection Polymer with High Hole Mobility for Solution-Processed OLEDs

Seon Lee Kwak and Do-Hoon Hwang (Pusan Nat'l Univ., Korea)

[P3-008]

14:00-15:30

Halogenated Multiple Resonance Thermally Activated Delayed Fluorescence Emitters with Enhanced Reverse Intersystem Crossing Rates

Younghnam Lee and Jong-In Hong (Seoul Nat'l Univ., Korea)

[P3-009]

14:00-15:30

Study of Perovskite Nanocrystal Dispersion in Chiral Liquid Crystals

Wontae Jung, Seungmin Nam, and Su Seok Choi (POSTECH, Korea)

[P3-010]

14:00-15:30

FDTD Simulation Study on Light Extraction Efficiency of Core-Shell Nanorod Light-Emitting Diodes

Kang Seok Kim, Gi Jun Ju, and Younghyun Kim (Hanyang Univ., Korea)

[P3-011]

14:00-15:30

Development of UV Photodetector based on Organic/Inorganic Hybrid Materials

Sehyuk Yeom, Sanghoon Jung, Jaesung Lee, Byoungho Kang, and Wanghoon Lee (GERI, Korea)

[P3-012]

14:00-15:30

Device Lifetime Evaluation of TADF Materials according to the Location of CN Substituents

Yeon Jae Choi, Kyeoung Wan Kim, Tae Hoon Ha, Jeong-Yeol Yoo, Byung Doo Chin, and Chilwon Lee (Dankook Univ., Korea)

[P3-013]

14:00-15:30

Synthesis and Evaluation of Hosts with TADF Characteristics for Low-Efficiency Roll-Off

Tae Hoon Ha, Seung Wan Kang, Hyuk Woo Jang, Jeong-Yeol Yoo, Byung Doo Chin, and Chilwon Lee (Dankook Univ., Korea)

[P3-014]

14:00-15:30

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)

[P3-015]

14:00-15:30

Surface Passivation via Chlorine Ion Doping for Highly Stable Formamidinium-Based Tin Perovskite Solar Cells

Jinhyeok Choi and Kilwon Cho (POSTECH, Korea)

[P3-016]

14:00-15:30

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, Yoonsung Yoo (ETRI, Korea), Won Jun Lee (Dankook Univ., Korea), Byeong-Soo Bae (KAIST, Korea), and Byoung-Hwa Kwon (ETRI, Korea)

[P3-017]

14:00-15:30

Fabrication of the Reverse-Trapezoidal Microstructure for Uniform Light Extracting Efficiency

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

[P3-018]

14:00-15:30

Picolinate Ligand-Assisted Deep-Red Emissive Ir(III) Complex Phosphorescent Emitter

Chanhyeok Kim, Taehyun Kim, and Taiho Park (POSTECH, Korea)

[P3-019]

14:00-15:30

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]

14:00-15:30

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]

14:00-15:30

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]

14:00-15:30

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)

[P3-023]

14:00-15:30

Molecularly Architected Ferroelectric Electroluminescent Polymer for Single-Material Self-Powered Sensing Display

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

[P3-024]

14:00-15:30

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)

[P3-025]

14:00-15:30

End to End Generative Adversarial Networks for Accelerated Magnetic Resonance Image Reconstruction

Md. Biddut Hossain, Joon Hyun Kim, Oh-Seung Nam, Tuvshinjargal Amgalan, Shariar Md Imtiaz (Chungbuk Nat'l Univ., Korea), Kwon Yeon Lee (Sunchon Nat'l Univ., Korea), Seong Gyoong Park (Kongju Nat'l Univ., Korea), and Nam Kim (Chungbuk Nat'l Univ., Korea)

[P3-026]

14:00-15:30

Optical Properties of Stretchable Electroactive Photonic Gels

Jun Hyuk Shin, Ji Yoon Park, and Su Seok Choi (POSTECH, Korea)

[P3-027]

14:00-15:30

Design and Fabrication of Stretchable Substrates and Electrodes for Highly-Durable Stretchable Hybrid Electronics

Seungkyu Lee, Jun Chang Yang, and Steve Park (KAIST, Korea)

[P3-028]

14:00-15:30

Optical Microlithography of Elastic Polymer Network Electrolyte for High-Integrated Ion-Driven Electronics

Ukjin Jeong (Hanyang Univ., Korea), Wanho Cho (UNIST, Korea), Hyukmin Kweon, Seokran Choi, Borina Ha, Jiyeon Ha (Hanyang Univ., Korea), BongSoo Kim (UNIST, Korea), and Do Hwan Kim (Hanyang Univ., Korea)

[P3-029]

14:00-15:30

On-Skin and Tele-Haptic Application of Mechanically Decoupled Tactile Sensor Array on Dynamically Moving and Soft Surfaces

Se Young Kwon, Gyeongsuk Park (KAIST, Korea), Hanbit Jin, Hye Jin Kim (ETRI, Korea), and Steve Park (KAIST, Korea)

[P3-030]

14:00-15:30

Bio-Inspired and Reversibly Autonomous Thermoregulation via Thermal Homeostatic Device

Gyeongsuk Park, Hyunmin Park, Junyoung Seo, Junchang Yang, and Steve Park (KAIST, Korea)

[P3-031]

14:00-15:30

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)

[P3-032]

14:00-15:30

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)

[P3-033]

14:00-15:30

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)

[P3-034]

14:00-15:30

Silent Speech Recognition Using Crystalline Silicon Based Strain Sensor

Taemin Kim, Kyowon Kang, Kiho Kim, Kwanho Kim, and Ki Jun Yu (Yonsei Univ., Korea)

[P3-035]

14:00-15:30

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)

[P3-036]

14:00-15:30

A Soft and Biodegradable Polymer Based Multi-channel Waveguide for Optogenetics

Myeongki Cho and Ki Jun Yu (Yonsei Univ., Korea)

[P3-037]

14:00-15:30

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 Nat'l Univ., Korea), Young Min Song (GIST, Korea), and Young Kyu Hong (KETI, Korea)

[P3-044]

14:00-15:30

Functionalized MoSe₂ 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), Eunkyong Park (Soonchunhyang 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)

[P3-050]

14:00-15:30

Flexible 3-Dimensional Device for Correlation Analysis through Simultaneous Measurement of Real-Time Brain Surface and Intracortical Neural Signals

Ju Young Lee, Sang Hoon Park, Young Uk Cho, Jeong Eun Ju, and Ki Jun Yu (Yonsei Univ., Korea)

[P3-051]

14:00-15:30

Real-Time Toxic Gas Monitoring System based on Flexible Silicon Nanomembrane

Jongwoon Shin, Kyubeen Kim, Insik Min, and Ki Jun Yu (Yonsei Univ., Korea)

[P3-052]

14:00-15:30

Electrical Impedance Tomography Based Stretchable Thin Film Tactile Sensor

Kyubeen Kim, Jung-Hoon Hong, and Ki Jun Yu (Yonsei Univ., Korea)

[P3-053]

14:00-15:30

Flexible Substrate with Increased Transmittance Using a Luminescent Organic Material for Efficient Flexible Optoelectronic Devices

Carmela Michelle Esteban, Ramakant Sharma, Woochan Lee, Jeoungmin Ji, and Seunghyup Yoo (KAIST, Korea)

[P3-054]

14:00-15:30

High-Polarity Fluorine-Based Polymers Applied to Nanogenerator and Field-Effect Transistor as The Real-Time Electrostatic Monitoring System

Yan-Ci Cheng, Pei-Hsuan Chung, Qi-An Hong, Chang-Jing Liu, and Wen-Ya Lee (Nat'l Taipei Univ. of Tech., Taiwan)

[P3-055]

14:00-15:30

Near-Infrared Organic Photodiodes with Improved Charge Transfer Absorption

Jeoungmin Ji, Hyung Suk Kim, Ramakant Sharma, Woochan Lee, Carmela Michelle Esteban, and Seunghyup Yoo (KAIST, Korea)

[P3-056]

14:00-15:30

Optimization of Dot Diffuser Design for Wearable Phototherapeutics

Sunhyoung Koo, Jaehyuk Park, Taehyun Kim, Subon Kim (KAIST, Korea), Hanul Moon (Dong-A Univ., Korea), and Seunghyup Yoo (KAIST, Korea)

[P3-057]

14:00-15:30

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)

[P3-059]

14:00-15:30

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)

[P3-062]

14:00-15:30

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)

[P3-063]

14:00-15:30

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

Yuna Lee, Jinwoo park, and Jaekyun Kim (Hanyang Univ., Korea)

[P3-065]

14:00-15:30

Micro LED EL Test Method Using Probing Wafer

Huijin Kim, Young-Woong Lee, Boseong Son, and Si-Hyun Park (Yeungnam Univ., Korea)

[P3-066]

14:00-15:30

Fabrication and Investigation of Uniformly Spaced Vertical Nanorod Array Light-Emitting Diodes (LEDs)

Youngwook Shin, Jinwoo Park, Byeongwoo Bak, and Jaekyun Kim (Hanyang Univ., Korea)

[P3-067]

14:00-15:30

Analysis of Temperature-Dependent Voltage Efficiency of InGaN/GaN-Based Blue Light-Emitting Diodes

Chan Geun Park, Sang Jin Min, Jong-In Shim, and Dong-Soo Shin (Hanyang Univ. ERICA, Korea)

[P3-068]

14:00-15:30

Monolithic Vertical MicroLEDs for Flexible Biomedical Stimulator

Sang Hyun Park (KAIST, Korea), Han Eol Lee (Jeonbuk Nat'l Univ., Korea) and Keon Jae Lee (KAIST, Korea)

[P3-069]

14:00-15:30

Investigation of Efficiency Droop in InGaN/GaN-Based Blue Light-Emitting Diodes by Temperature-Dependent Photocurrent Measurement

Ji Won Kim, Sangjin Min, Dong-Soo Shin, and Jong-In Shim (Hanyang Univ. ERICA, Korea)

[P3-071]

14:00-15:30

Analysis of Power Efficiencies of Light-Emitting Diodes with Different Defect Densities by Temperature-Dependent Performance Characterization

Jae Hyeok Park, Sang Jin Min, Jong-In Shim, and Dong-Soo Shin (Hanyang Univ. ERICA, Korea)

[P3-072]

14:00-15:30

Analysis of Impedance Spectroscopy on InGaN-Based Blue Light-Emitting Diodes Under Optical Excitation: Differential-Carrier-Lifetime Study

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

[P3-073]

14:00-15:30

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

Seung Jae Lee and JungYong Lee (KAIST, Korea)

[P3-074]

14:00-15:30

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

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

[P3-075]

14:00-15:30

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)

[P3-076]

14:00-15:30

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)

[P3-077]

14:00-15:30

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)

[P3-078]

14:00-15:30

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)

[P3-079]

14:00-15:30

Sensitive Sensor based on Oxide Thin Film Transistor

Sehun Jeong, Jingyu Kim, Siracosit Sarawut, and Sang-Hee Ko Park (KAIST, Korea)

[P3-080]

14:00-15:30

Improvement of Printed Pixel Uniformity of Organic Photodetectors for a Low-cost, Thin Film Transistor-Type Fingerprint Sensors

Jun Suh Hwang, Hyun Jun Kim, Byung Doo Chin (Dankook Univ., Korea), Eui Chan Kim, Ezgi Darici, and Kang Il Seo (CLAP Co., LTD., Korea)

[P3-081]

14:00-15:30

Multi-Layered Triboelectric Nanogenerator for Artificial Synapse

Yong-Jin Park, Yun Goo Ro, Young-Eun Shin, Sangyun Na, Yoojin Chang, and Hyunhyub Ko (UNUST, Korea)

[P3-082]

14:00-15:30

Low-Voltage Stretchable Electroluminescent Devices for Sound-in-Display Electronics

Hyejin Lee, Seungse Cho, Dong-hee Kang, and Hyunhyub Ko (UNIST, Korea)

[P3-083]

14:00-15:30

Highly Sensitive Temperature Insensitive Wearable Strain Sensor with Bilayer Polymer Substrates to Control Electrical Transport in Nanoparticles

Taesung Park, Ho Kun Woo, Byung Ku Jung (Korea Univ., Korea), Byeonghak Park (Sungkyunkwan Univ., Korea), Junsung Bang, Woosik Kim, Sanghyun Jeon, Junhyuk Ahn (Korea Univ., Korea), Yunheum Lee (Sungkyunkwan Univ., Korea), Yong Min Lee (Korea Univ., Korea), Tae-il Kim (Sungkyunkwan Univ., Korea), and Soong Ju Oh (Korea Univ., Korea)

[P3-084]

14:00-15:30

Sol-Gel Processed Y₂O₃ Capacitor Based Physical Unclonable Function (PUF)

Donghoon Lee, Jae Eun Jang (DGIST, Korea), Jaewon Jang (Kyungpook Nat'l Univ., Korea), and Hongki Kang (DGIST, Korea)

[P3-085]

14:00-15:30

Optimization of α -IGZO TFTs with Drain Offset Structure for High-Voltage Sensors and Actuator Driver Applications

Jungha Lee, Jae Eun Jang, and Hongki Kang (DGIST, Korea)

[P3-086]

14:00-15:30

Monolithic Circuit Integrated with VOC Sensor based on α -IGZO TFT

Eseudeo Yun, Yongchan Kim (Soongsil Univ., Korea), Hanbin Choi, Do Hwan Kim (Hanyang Univ., Korea), and Hojin Lee (Soongsil Univ., Korea)

[P3-087]

14:00-15:30

Retina-Inspired Structurally Tunable Synaptic Perovskite Nanocones

Kaiying Zhao, Kyuho Lee, and Cheolmin Park (Yonsei Univ., Korea)

[P3-088]

14:00-15:30

Synthesis of Uniform-Morphology and High-Quality Fluorescent Red InP Quantum Dots and Their Electroluminescence

Hyun-Min Kim, Dae-Yeon Jo, Seong Min Park, Sun-Kyo Kim, Yuri Kim, Yu-Been Kong, Seoyeon Park, and Heesun Yang (Hongik Univ., Korea)

[P3-089]

14:00-15:30

Extensive Compositional Tuning of Ternary ZnSeTe Quantum Dots toward Red Emissivity

Young-Ju Lee, Suk-Young Yoon, Sun-Hyoung Lee, Yang-Hee Kim, Seong Min Park, Hyungmin Yang, Hyo-Jin Yeo, and Heesun Yang (Hongik Univ., Korea)

[P3-090]

14:00-15:30

Color-Tunable and Band-Edge-Emitting Ag-In-Ga-S Quaternary Quantum Dots

Yuri Kim, Ali Imran Channa, Sun-Kyo Kim, Dae-Yeon Jo, Yu-Been Kong, Young-Ju Lee, Hyungmin Yang, and Heesun Yang (Hongik Univ., Korea)

[P3-091]

14:00-15:30

Phosphine-Free Synthesis of Cd-Free Colloidal Quantum Dots with Narrow Emission Spectra

Jung-Min Lee, Jae-Young Choi (KIMS, Korea), Jong-Pal Hong (Laminar Inc., Korea), and Young-Kuk Kim (KIMS, Korea)

[P3-092]

14:00-15:30

High-Brightness and Stable Solution Processed Quantum Dot Light-Emitting Devices by Al Atomistic Surface Modulation on Gradient Quantum Dots

Jae-Sung Lee, Byoung-Ho Kang, Sang-Hoon Jung, Se-Hyuk Yeom, and Wang-Hoon Lee (GERI, Korea)

[P3-093]

14:00-15:30

Solution-Processed Fabrication of Light-Emitting Diodes Using C_6PbBr_3 Perovskite Nanocrystals

Hyeon Seung Ban and Seong-Yong Cho (Myongji Univ., Korea)

[P3-094]

14:00-15:30

Improving Photoresponsivity and Reducing PPC Effect of ZnO/Quantum-Dots Phototransistor via Solution Processable ZrO_2 Additional Layer

Jun Hyung Jeong and Seong Jun Kang (Kyung Hee Univ., Korea)

[P3-095]

14:00-15:30

Nondestructive Direct Photolithography for Patterning Quantum Dot Films by Atomic Layer Deposition of ZnO

Joon Yup Lee, Eun A Kim (Myongji Univ., Korea), Jisu Han, Yeongho Choi, Donghyo Hahm (Sungkyunkwan Univ., Korea), Chi Jung Kang (Myongji Univ., Korea), Wan Ki Bae, Jaehoon Lim (Sungkyunkwan Univ., Korea), and Seong-Yo (Myongji Univ., Korea)

[P3-096]

14:00-15:30

Direct Stacking QD Film for White Quantum Dot Light-Emitting Diodes by Atomic Layer Deposition of ZnO

Eun A Kim, Seeun Jung (Myongji Univ., Korea), Jisu Han, Jaehoon Lim (Sungkyunkwan Univ., Korea), and Seong-Yong Cho (Myongji Univ., Korea)

[P3-097]

14:00-15:30

Enhanced EL Performance of Top Emission Quantum Dot Light Emitting Diodes by ZnO Atomic Layer Deposition

Hyo Geun Lee, Eun Sang Lee, Joon Yup Lee (Myongji Univ., Korea), Jisu Han, Jaehoon Lim (Sungkyunkwan Univ., Korea), and Seong-Yong Cho (Myongji Univ., Korea)

[P3-098]

14:00-15:30

Synthesis of High-Efficiency Quantum Dots Containing Extremely Limited Cadmium Cations

Sanghoon Jung, Byoungcho Kang, Jaesung Lee, Saehyuk Yeom, and Wanghoon Lee (GERI, Korea)

[P3-099]

14:00-15:30

Air-Stable Full Color-Emitting Zn-Based Quantum Dot

Seongwoo Cho, Sung Nam Lim, Shin Ae Song, Kiyoun Kim, and Ju Young Woo (KITECH, Korea)

[P3-100]

14:00-15:30

Low-Temperature Processed PTAA as a HTL Material for Flexible Quantum-DotLight-Emitting Diodes

Hyoun Ji Ha, Min Gye Kim, and Seong Jun Kang (Kyung Hee Univ., Korea)

[P3-101]

14:00-15:30

Synthesis of Inp/Znse/Zns Quantum Dots with High Photoluminescence Quantum Yield and Narrow Full Width at Half Maximum

Hye Seon Kim, Sung Nam Lim, Shin Ae Song, Kiyoun Kim, and Ju Young Woo (KITECH, Korea)

[P3-102]

14:00-15:30

Synthesis of Conjugated Polymers for Improving Hole Transport Ability of Quantum Dots

Yejin Gim, Sujin Park (Kumoh Nat'l Inst. of Tech., Korea), Donggu Lee (Gyeongsang Nat'l Univ., Korea), and Wonho lee (Kumoh Nat'l Inst. of Tech., Korea)

[P3-103]

14:00-15:30

Morphology-Dependency of Negative Differential Resistance by Sol-Gel Film, Nanoparticles, and Quantum Dots-Based Zinc Oxide/P-Doped-Si Heterojunction Structures

Somi Kim, Taehyun Park, and Hocheon Yoo (Gachon Univ., Korea)

[P3-104]

14:00-15:30

Synthesis of Cationic Metal Chalcogenide Colloidal Quantum Dots and their Application to NIR Photodetector

Haewoon Seo, Hyogeun Gwon, and Sang-Wook Kim (Ajou Univ., Korea)

[P3-105]

14:00-15:30

Chiral InP Magic Sized Clusters: Ligand vs. Crystal Structure

Youngjae Ryu and Sungjee Kim (POSTECH)

[P3-106]

14:00-15:30

Enhancing Humidity Resistance of the Quantum Dots by Controlling Thickness of the Silica

Yu Seong Lee, Sugyeong Jeong, Inwoo Lee, Yejin Kim, and Changhum Yun (Chonnam Nat'l Univ., Korea)

[P3-107]

14:00-15:30

Effect of QD Ink Droplet Size on Pixel Structure by Inkjet Printed QD Layer for Inverted QLED Device

Youngwoo Lee (KITECH, Korea), Kuk Young Cho (Hanyang Univ., Korea), and Yong-Cheol Jeong (KITECH, Korea)

[P3-108]

14:00-15:30

The Effect of Photoinduced Layer-by-Layer Assembly with In-Plane Colloidal Quantum Well in Light-Emitting Diodes

Hyunjin Cho and Doh C. Lee (KAIST, Korea)

[P3-109]

14:00-15:30

Lattice Strain as Energy Level Modifier Enabling Unity Quantum Yield of Colloidal Quantum Dots

Byong Jae Kim, Yeongho Choi (Sungkyunkwan Univ., Korea), Ji-Sang Park (Kyungpook Nat'l Univ., Korea), and Jaehoon Lim (Sungkyunkwan Univ., Korea)

[P3-110]

14:00-15:30

Impact of Morphological Inhomogeneity on Excitonic States in ZnSeTe Quantum Dots

Dongju Jung (Sungkyunkwan Univ., Korea), Hak June Lee (Seoul Nat'l Univ., Korea), Doyoon Shin, Seongbin Im, and Wan Ki Bae (Sungkyunkwan Univ., Korea)

[P3-111]

14:00-15:30

A Research on Improvement of QLED Device Performance Using Spinel CuCo_2O_4 Hole Injection Layer

Min Ho Park, Min Gye Kim, Jin Hyun Ma, and Seong Jun Kang (Kyung Hee Univ., Korea)

[P3-112]

14:00-15:30

Design of Barrierless Hole Injection Landscape in All-Inorganic Quantum Dot Light-Emitting Diodes

Woon Ho Jung, Yeong-Ho Choi (Sungkyunkwan Univ., Korea), Hyeonjun Lee (KAIST, Korea), Yong Woo Kwon, and Jaehoon Lim (Sungkyunkwan Univ., Korea)

[P3-113]

14:00-15:30

Direct Patterning of Emissive Quantum Dots with Dual Functional Ligands

Jaemin Lim, Kahyung Kim, Kyuri Kim, Sejong Min, and Wan Ki Bae (Sungkyunkwan Univ., Korea)

[P3-114]

14:00-15:30

Homogeneous Alloy $\text{In}_{1-x}\text{Ga}_x\text{P}$ Quantum Dot Synthesis through In^{3+} -to- Ga^{3+} Cation Exchange Reactions with Thermal Annealing

Sang Min Yeo and Doh Chang Lee (KAIST, Korea)

[P3-115]

14:00-15:30

Controlled Location of Ga^{3+} in Highly Efficient $\text{In}(\text{Ga})\text{P}$ -Based Core/Shell Quantum Dots

Hyeongrae Lee and Doh C. Lee (KAIST, Korea)

[P3-116]

14:00-15:30

Optical Properties of ZnSeTe -Based Core/Shell Quantum Dots with Different Composition and Precursor Injection Method

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

[P3-117]

14:00-15:30

Hole Injection Layer-Free Colloidal Quantum Dot Light-Emitting Diodes Fabricated on the Chemically Modified ITO Electrode

Sangwook Park (Pusan Nat'l Univ., Korea), Woonho Jung (Sungkyunkwan Univ., Korea), Jaeyeop Lee (Pusan Nat'l Univ., Korea), Jaehoon Lim (Sungkyunkwan Univ., Korea), and Jeongkyun Roh (Pusan Nat'l Univ., Korea)

[P3-118]

14:00-15:30

ITO-Free PEDOT:PSS Electrodes for Solution-Processable and Flexible Quantum-Dot Light Emitting Diodes

JinHyun Ma, Mingye Kim, MinHo Park, and Seong Jun Kang (Kyung Hee Univ., Korea)

[P3-119]

14:00-15:30

Heterostructure-Controlled ZnSeTe/ZnSe/ZnS Quantum Dots for Blue-Emitting QD-LED

Seyup kim and Doh C. Lee (KAIST, Korea)

[P3-120]

14:00-15:30

Quantum-Dot Light-Emitting Diodes Using Spray Pyrolysis Method for Next-Generation Optoelectronic Devices

Min Gye Kim, Jin Hyun Ma, Min Ho Park, and Seong Jun Kang (Kyung Hee Univ., Korea)

[P3-121]

14:00-15:30

Crosslinkable Functional Layer for All-Solution Quantum Dot Light-Emitting Diode

Jeong Ha Hwang, Hyun Su Jo, Kyung Jae Lee, Dong hyun Kim, Bong Young Kim, Seok Hyoung Lee, Min Young Choi, and Donggu Lee (Gyeongsang Nat'l Univ., Korea)

[P3-122]

14:00-15:30

Effect of Zinc Halides on Surface Energy of InP Tetrapod Nanocrystals

Sunghu Kim, Seongmin Park, and Sohee Jeong (Sungkyunkwan Univ., Korea)

[P3-123]

14:00-15:30

Surface Passivation via Dodecyl-Based Ligand Engineering on CsPb(Br,I)₃ Perovskite Nanocrystals for Efficient Red-Emitting LEDs

Semin Ko, Hyeon Woo Jeong, Hyejin Na, Seon Joo Lee (KRICT, Korea), Myoung Hoon Song (UNIST, Korea), Jae Yong Suh (Michigan Technological Univ., USA), Soong Ju Oh (Korea Univ., Korea), Jaemin Lee, and Sungho Choi (KRICT, Korea)

[P3-124]

14:00-15:30

Direct Nanocrystal-Based Device Fabrication Method for Property Engineering and Patterning by Ink-Lithography

Junhuyk Ahn, Sanghyun Jeon, Ho Kun Woo, Junsung Bang, Yong Min Lee (Korea Univ., Korea), Steven J. Neuhaus (Univ. of Pennsylvania, USA), Woo Seok Lee, Taesung Park, Sang Yeop Lee, Byung Ku Jung, Hyungmok Joh, Mingi Seong (Korea Univ., Korea), Ji-hyuk Choi (KIGAM, Korea), Ho Gyu Yoon (Korea Univ., Korea), Cherie R. Kagan (Univ. of Pennsylvania, USA), and Soong Ju Oh (Korea Univ., Korea)

[P3-125]

14:00-15:30

Highly Luminescent and Multifunctional Zero-Dimensional Cesium Lanthanide Chloride (Cs_3LnCl_6) Colloidal Nanocrystals

Minji Lee, Hyesun Chung, Yoon Joo Choi, Ho Young Woo, Lee Da Won, and Taejong Paik (Chung-Ang Univ., Korea)

[P3-126]

14:00-15:30

Amine-Functionalized Ligand as a Charge Balancer in Colloidal Quantum Dot Light Emitting Diodes

Minseok Choi (Pusan Nat'l Univ., Korea), Woonho Jung (Sungkyunkwan Univ., Korea), Jaeyeop Lee (Pusan Nat'l Univ., Korea), Jaehoon Lim (Sungkyunkwan Univ., Korea), and Jeongkyun Roh (Pusan Nat'l Univ., Korea)

[P3-127]

14:00-15:30

All-Inorganic Halide Perovskite Patterning with Adjustable Phase for High Resolution Color Filter and Photodetector Arrays

Woosik Kim, Su-Kyung Kim, Sanghyun Jeon, Junhyuk Ahn, Byung Ku Jung, Sang Yeop Lee (Korea Univ., Korea), Chanho Shin (Univ. of California San Diego, USA), Tae-Yeon Seong (Korea Univ., Korea), Sohee Jeong, Ho Seong Jang (KIST, Korea), TSe Nga Ng (Univ. of California San Diego, USA), and Soong Ju Oh (Korea Univ., Korea)

[P3-128]

14:00-15:30

Study on Solvent Orthogonality of the Double Hole Transport Layers in All Solution-Processed Quantum Dot Light-Emitting Diodes

Jaeyeop Lee (Pusan Nat'l Univ., Korea), Woonho Jung (Sungkyunkwan Univ., Korea), Minsuck Choi, Sangwook Park (Pusan Nat'l Univ., Korea), Jaehoon Lim (Sungkyunkwan Univ., Korea), and Jeongkyun Roh (Pusan Nat'l Univ., Korea)

[P3-129]

14:00-15:30

Adjusting Surface Chemistry of Quantum Dot for High-Resolution Vis / IR Photodetectors

Jung Ho Bae, Byung Ku Jung, and Soong Ju Oh (Korea Univ., Korea)

[P3-130]

14:00-15:30

Hydrothermal Synthesis of Monoclinic-Phase Vanadium Dioxide Nanocrystals for High Performance Smart Windows

Jong Bae Kim, Yoon Joo Choi, Ho Young Woo, Da Won Lee, Hyesun Chung, and Taejong Paik (Chung-Ang Univ., Korea)

[P3-131]

14:00-15:30

Synthesis of Blue InP Multishell Quantum Dots by Exchanging the Capping Ligands of the Outer Shell

Seungchul Shin, Bomi Kim, and Jiwan Kim (Kyonggi Univ., Korea)

[P3-132]

14:00-15:30

Designing Nanocrystal-Based Multi-Sensors by One-Step Inkjet Printing

Junjung Bang, Junhyuk Ahn, and Soong Ju Oh (Korea Univ., Korea)

[P3-133]

14:00-15:30

Controlling the Indium Doping according to the CdSe Nanocrystals Size for Lowering the Fabrication Temperature

Yong Min Lee, Byung Ku Jung, Junhyuk Ahn, Taesung Park (Korea Univ., Korea), Chanhoo Shin, Tse Nga Ng (Univ. of California San Diego, USA), In Soo Kim (KIST, Korea), Ji-Hyuk Choi (KIGAM, Korea), and Soong Ju Oh (Korea Univ., Korea)

[P3-134]

14:00-15:30

Electrical Doping of Colloidal Semiconductor Nanocrystals: Electron-Only-Device & Hole-Only-Device

Hak June Lee (Seoul Nat'l Univ., Korea), Doyoon Shin, and Wan Ki Bae (Sungkyunkwan Univ., Korea)

[P3-135]

14:00-15:30

Unraveling the Growth Mechanism of Heterovalent Core/Shell Nanocrystals

Doyoon Shin (Sungkyunkwan Univ., Korea), Hak June Lee (Seoul Nat'l Univ., Korea), Dongju Jung, Seongbin Im, and Wan Ki Bae (Sungkyunkwan Univ., Korea)

[P3-136]

14:00-15:30

Linearly Polarized Photoluminescence and Electrical Switching of the Elongated Carbon Quantum Dots

Subhangi Subedi, Suhyun Kim, Avinash K. Rella, Vineet Kumar, and Shin-Woong Kang (Jeonbuk Nat'l Univ., Korea)

[P3-137]

14:00-15:30

Controlled Sulfurization of Ag Nanorod into Ag-Ag₂S Hetero-Nanorod

Taeyong Ha, Gyuhyun Bang, Sanghwa Jeong, and Sungjee Kim (Pohang Univ., Korea)

[P3-138]

14:00-15:30

Device Performance of All Inorganic Quantum Dot Light Emitting Diodes Using NiOx as A Hole Transport Layer by Soluble Process

Hyojung Son, Chaerin Son, and Byoung-Seong Jeong (Kyungpook Nat'l Univ., Korea)

[P3-139]

14:00-15:30

Insight the Halide Precursor to Reveal the Role of Triiodide in Anion-Exchange Lead Halide Perovskite Nanocrystals

Ha-Chi V. Tran (Sungkyunkwan Univ., Korea), Ju Young Woo (KITECH, Korea), and Sohee Jeong (Sungkyunkwan Univ., Korea)

[P3-140]

14:00-15:30

Enhanced Efficiency of Top-Emission Quantum Dot Light-Emitting Diodes with Optimized Hole and Electron Transport Layers

Gyeong-Pil Jang, Ji-Hun Yang, Su-Young Kim, Young-Bin Chae, and Chang Kyo Kim (Soonchunhyang Univ., Korea)

[P3-141]

14:00-15:30

Synthesis of Non-Toxic Ag-Based NIR Quantum Dots and Its Application into Photoelectronic Device

Jisu Kwon, Yunmo Sung, and Sungjee Kim (POSTECH, Korea)

[P3-142]

14:00-15:30

Synthesis of Green Perovskite Quantum Dot-Silica Composites with Enhanced Stability and Improved Optical Properties

Il Heo, Ja Yeon Lee, and Ho Seong Jang (KIST, Korea)

[P3-143]

14:00-15:30

Simulation Study on a New Quantum-Dot Backlight Incorporating a Hybrid Film for LCD Applications

Jung Gyun Lee, Gi Jung Lee, and Jae Hyeon Ko (Hallym Univ., Korea)

[P3-144]

14:00-15:30

Design of Distributed Bragg Reflector for Enhancement of Color Gamut in Color Conversion Displays

Gi-Eun Kim, Dong-Seok Lee, Jeong-Hyeon Lee, Chang-Jae Yu, and Jae-Hoon Kim (Hanyang Univ., Korea)

[P3-145]

14:00-15:30

Effect of Zinc Ions on the Optical and Electrical Properties of InAs Quantum Dots-Based Photodiodes

SeongChan Kim, Sooyean Yeon, and Nuri Oh (Hanyang Univ., Korea)

[P3-146]

14:00-15:30

Brightening InP Core and Effective Shelling Process by Combinational Precursor Chemistry

Seungki Shin, Hyunwoo Jang, Namyoung Gwak, and Nuri Oh (Hanyang Univ., Korea)

[P3-147]

14:00-15:30

Improvement of Charge Balance in Quantum Dot Light-Emitting Diodes with GaZnO Electron Transport Layer

Soryeong Jeong, Hyun Jae Kim, Yoon-Su Kim, Nara Lee, Yoonji Yang, Kyoung Won Park, Chul Jong Han, and Min Suk Oh (KETI, Korea)

[P3-148]

14:00-15:30

Transfer Printing of Spatially Organized Quantum Dots on Topographically Patterned Surface

Su Bin Lee, Su Hong Min, and Dong Hyun Lee (Dankook Univ., Korea)

[P3-149]

14:00-15:30

All Inorganic Solution Processed Quantum Dots Visible Light Photodiode

Seong Jae Kang, Jun Hyung Jeong, Jin Hyun Ma, and Seong Jun Kang (Kyung Hee Univ., Korea)

[P3-150]

14:00-15:30

InP QDs with Polymer Ligand for Space Control between QDs and Dispersion in Siloxane Matrix

Boram Kim, Yonghyeok Choi, Kangwoo Lee, and Heeyeop Chae (Sungkyunkwan Univ., Korea)

[P3-152]

14:00-15:30

A Novel Strategy for Quantum Dot Thin Layers with Perfect Color Conversion and High Luminance in QD-OLED Displays

Seok-Hun Kim and Sunghoon Kim (Dong-Eui Univ., Korea)

[P3-153]

14:00-15:30

Photoluminescence Study of Solution-Processed Zinc Oxide and Indium-Galliumzinc-Oxide Thin Films

Jinyeong Lee and Jaewook Jeong (Chungbuk Nat'l Univ., Korea)

[P3-154]

14:00-15:30

High Color Purity Down Conversion Using $\text{ZnBr}_2\text{-CsPbBr}_3$ Perovskite Nanocrystals

Ju-Hun Lee (ETRI, Korea), Jusun Park (KITECH, Korea), Chul Woong Joo, Dae-Hyun Ahn, Joo Yeon Kim, Nam Sung Cho (ETRI, Korea), Ju Young Woo (KITECH, Korea), and Jaehyun Moon (ETRI, Korea)

[P3-155]

14:00-15:30

Tunable Color Filter by Humidity Response via Nanoporous Fabry-Perot Structure

Jaekyung Kim, Byoungsu Ko, Younghwan Yang, and Junsuk Rho (POSTECH, Korea)

[P3-156]

14:00-15:30

Electrically Switching Properties of Photonic Crystal Nano Colloid

Ju-Young Park, Pans. Priyadharshana, and Jang-Kun Song (Sungkyunkwan Univ., Korea)

[P3-157]

14:00-15:30

Optimal Fusion of Hole-Transport Layer with Antibiotic for Highly Efficient Organic Light-Emitting Diodes

Dong Hyun Kim, Chang Min Lee, Amjad Islam, Dong Hyun Choi, Geon-Woo Jeong, Tae Wook Kim, Hyun Woo Cho, Yeong Beom Kim, Syed Hamad Ullah Shah, Min Jae Park, and Seung Yoon Ryu (Korea Univ., Korea)

[P3-158]

14:00-15:30

Determination of Thermoluminescence Properties of Na⁺Dy Co-Doped MgB₄O₇ for a Light Tracer

Jinu Park, Nakyung Kim, Jiwoon Choi, Youngseung Choi, Sanghyuk Ryu (KAIST, Korea), Sungjin Yang, Duckhyeong Jung (Poongsan R&D Institute, Korea), and Byungha Shin (KAIST, Korea)

[P3-159]

14:00-15:30

Cellulose/Carbon Black-Based Flexible Pressure Sensor with High Linearity

Dong Keon Lee, Daesik Kim, Jinsu Yoon, and Yongtaek Hong (Seoul Nat'l Univ., Korea)

[P3-160]

14:00-15:30

Color Tunable Quantum Dot Light Emitting Diode with PEIE Layer

Sung-Cheon Kang, Jae-In Yoo, Hyo-Bin Kim, and Jang-Kun Song (Sungkyunkwan Univ., Korea)

[P3-161]

14:00-15:30

All Solution Quantum Dot Light-Emitting Diode Using Green Solvent.

Yalim Kim, Hyo-Bin Kim, Jae-In Yoo, and Jang-Kun Song (Sungkyunkwan Univ., Korea)

[P3-162]

14:00-15:30

Swelling-Induced Surface Instability of Crosslinked Nanocrystals

Se Young Park and Moon Sung Kang (Sogang Univ., Korea)

[P3-163]

14:00-15:30

Visualizing NIR Using Monolithic QD Optoelectric Upconversion Devices in Transmissive Mode

Tae Hyun Kwon and Moon Sung Kang (Sogang Univ., Korea)

[P3-164]

14:00-15:30

Direct Photo-Lithography of Perovskite Nanocrystal with λ -line

Yong Hyun Jo, Se Young Park, Dong Gil Kwak, and Moon Sung Kang (Sogang Univ., Korea)

[P3-165]

14:00-15:30

Argon and Oxygen Gas Flow Rate Dependency of Sputtering-Based Indium-Gallium-Zinc Oxide Transistor

Youngmin Han, Dong Hyun Lee, Sang Jik Kwon, Eou-Sik Cho, and Hocheon Yoo (Gachon Univ., Korea)

[P3-166]

14:00-15:30

All-Solution Processed Indium Phosphide Based Inverted Structure Light Emitting Diode

Hyo-Bin Kim, Jae-In Yoo, Sung-Cheon Kang, and Jang-Kun Song (Sungkyunkwan Univ., Korea)

[P3-167]

14:00-15:30

Enhanced Performance of Quantum Dot Light Emitting Diode with Balanced Charge Injection

Zebing Liao, Kumar Mallen, Chengbin Kang, Yiyang Gao, Maksym Prodanov, and Abhishek Kumar Srivastava (The Hong Kong Univ., of Science and Tech., China)

[P3-168]

14:00-15:30

Environmentally Friendly QLED with Improved Charge Balance via Blended Hole Transport Layers

Jae-Hyeon Ahn, Sinyoung Cho, Derrick Allan Taylor, Justice Agbeshie Teku, and Jong-Soo Lee (DGIST, Korea)