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Topic Title:	16. Quantum Dots
Session Title:	05. Poster Session 16

[05_16_1303]

Improvement of Ink-Jet Printed QLED Performance by Controlling Time-Dependent Characteristics of ZnO NPs ETL by IPL Post-Treatment

Young Joon Han (KITECH, Korea and Korea Univ., Korea), Kyung-Tae Kang (KITECH, Korea), Byeong-Kwon Ju (Korea Univ., Korea), and Kwan Hyun Cho (KITECH, Korea)

[05_16_1304]

Structural Analysis of InP/ZnSe/ZnS Core-Shell Quantum Dots by HR-TEM

Soon Mi Choi, Sanghyoung Lim, Doohyoung Lee, Myeong Kyu Park, and Nari Ahn (Samsung Display Co., Ltd., Korea)

[05_16_1346]

Electron Transporting Property Optimization for Quantum Dot Light Emitting Diodes

Hyunmi Doh, Jongwoo Shin, Myungjin Park, Sungwoon Kim, Jaekook Ha, and Chang Hee Lee (Samsung Display Co., Ltd., Korea)

[05_16_1367]

Highly Efficient Red InP-Based QLEDs via Surface Ligand Engineering of Core Formation Process

Wei Jiang and Heeyeop Chae (Sungkyunkwan Univ., Korea)

[05_16_1371]

Synthesis and Characterization of Tunable Blue Emitting Colloidal Gallium Nitride Quantum Dots

Gahyeon Kim, Yunchang Choi (Korea Univ., Korea), Hyunjin Kim (Hanyang Univ., Korea), Chiho Lee, Juhee Son (Korea Univ., Korea), Hionsuck Baik (KBSI, Korea), Sungnam Park (Korea Univ., Korea), Jaekyun Kim (Hanyang Univ., Korea), and Kwang Seob Jeong (Korea Univ., Korea)

[05_16_1390]

Degradation Mechanism in High Performance Inverted Red Indium Phosphide-Quantum Dot Light-Emitting Diodes

Su Jeong Kim, Dong Hyun Shin, Raju Lampande, Nagarjuna Naik Mude, and Jang Hyuk Kwon (Kyung Hee Univ., Korea)

[05_16_1391]

Highly Efficient Quantum Dot Light Emitting Devices with Organic/Inorganic Electron Transport Layers

Da-Young Park, Seong-Geun Kim, Ji-Ho Kang, and Dae-Gyu Moon (Soonchunhyang Univ., Korea)

[05_16_1496]

The Effect of Surface Ligand on Performance of Electroluminescence QD Device

Yun Ku Jung, Hye Kyoung Choi, Sung Woon Kim, Jae Kook Ha, and Chang Hee Lee (Samsung Display Co., Ltd., Korea)

[05_16_1516]

PbS Colloidal Quantum Dot SWIR Photodetectors with Rapid Thermal Annealing

Junyoung Jin (KIST, Korea and Korea Univ., Korea), Ji-hoon Kyhm (Dongguk Univ., Korea), Do Hyung Hwang, Kyung-Seok Lee (KIST, Korea), Tae-Yeon Seong (Korea Univ., Korea), and Gyu Weon Hwang (KIST, Korea)

[05_16_1520]

Investigation of Anomalous Emission Profile and Remedy for Spectrally-Narrow Green InP Quantum Dots

Yeong-Ho Choi, Donghyo Hahm, Jun Hyuk Chang, Wan Ki Bae (Sungkyunkwan Univ., Korea), Ju-Hyung Kim (Ajou Univ., Korea), and Jaehoon Lim (Sungkyunkwan Univ., Korea)

[05_16_1532]

Hole-Only Quantum Dot Light-Emitting Diode for Color-Tunable Pixel

Suk-Ho Song, Sung-Jae Park, Sang Soo Kim, and Jang-Kun Song (Sungkyunkwan Univ., Korea)

[05_16_1547]

Angular Dependent Polarized Emission of Semiconductor Quantum Rods

GAO Yiyang, Kang Chengbin, Swadesh Kumar Gupta, and Abhishek Kumar Srivastava (HKUST, Hong Kong)

[05_16_1576]

The Efficiency Improvement of Quantum Rod Light Emitting Diode by Smooth Hole Transport Layer

Mallem Kumar, Maksym F. Prodanov, Bryan Siu Ting Tam, Valerii V. Vashchenko, and Abhishek K. Srivastava (HKUST, Hong Kong)

[05_16_1586]

Synthesis of Highly Stable Perovskite Quantum Dots Using Zinc-Trioctylphosphine-Oxide and their Light-Emitting-Diodes Application

Seungmin Baek (Ajou Univ., Korea), Seokwoo Kang (Kyung Hee Univ., Korea), ChaeYeon Son, Hyo Geun Gwon, Jin Soo Ha (Ajou Univ, Korea), Jongwook Park (Kyung Hee Univ., Korea), Sang-Wook Kim (Ajou Univ., Korea)

[05_16_1592]

Development of Non-Toxic Organic QD-LED based on the Self-Assembled Protein Peptide Nanosphere

Junekyun Park, Eunkyu Shin (Sungkyunkwan Univ., Korea), Jongwoo Park (Samsung Display Co., Ltd., Korea), and Yonghan Roh(Sungkyunkwan Univ., Korea)

[05_16_1594]

Investigation on Sub-Band Gap Operation Mechanism of Quantum Dot-Based Light-Emitting Diodes

Hyeonjun Lee (KAIST, Korea), Byeong Guk Jeong (Sungkyunkwan Univ., Korea), Doh C. Lee (KAIST, Korea), and Jaehoon Lim (Sungkyunkwan Univ., Korea)

[05_16_1604]

Stable Inverted Quantum Dot Light-Emitting Diode with Modified Electron Transport Layer

Yu Luo and Junbiao Peng (SCUT, China)

[05_16_1609]

Effect of ZnO NPs Surface Flatness on Inverted QLED Devices with Pixels Formed by Inkjet Printing Process

Youngwoo Lee (KITECH, Korea and Hanyang Univ. ERICA, Korea), and Young-Cheol Jeong (KITECH, Korea)

[05_16_1637]

Colloidal III-V Nanocrystals with Well-Defined Surfaces

Youngsik Kim, Eunhye Cho, Hamin Kim, Mahnmin Choi, and Sohee Jeong (Sungkyunkwan Univ., Korea)

[05_16_1643]

Near-Unity Photoluminescence Quantum Yield in II-VI Heterostructure ZnSeTe

JunHyuk Chang (Sungkyunkwan Univ., Korea), HakJune Lee (Seoul Nat'l Univ., Korea), and Wan Ki Bae (Sungkyunkwan Univ., Korea)

[05_16_1644]

The Synthesis of InAs Quantum Dots based on Continuous Growth Reaction

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

[05_16_1655]

Small Organic Molecule Treatment ZnMgO NPs for High-Performance Quantum Dot Light-Emitting Diodes

Hongjoo Shin, Hyunjin Cho, and Yeon Sik Jung (KAIST, Korea)

[05_16_1663]

A Study of Random Micro-Structure to Improve the Light Out-Coupling Efficiency of QLEDs Devices

Hakjeon Kim (ETRI, Korea and Dankook Univ., Korea), Sooyoung Yeom, Kitae Kim (Chungnam Nat'l Univ., Korea), Won Jun Lee (Dankook Univ., Korea), Jun-Hee Na (Chungnam Nat'l Univ., Korea), and ByoungHwa Kwon (ETRI, Korea)

[05_16_1695]

Tunable Singlet-Triplet Energy Splitting of Graphene Quantum Dots

Minsu Park, Hyung Suk Kim, Hyewon Yoon, Jin Kim, Sukki Lee, Seunghyup Yoo, and Seokwoo Jeon (KAIST, Korea)

[05_16_1700]

Enhancement of Conventional QD-LED Device Properties by Introducing Hybrid Inorganic/Organic Bi-Layered Electron Transport Layer Using Environmentally Friendly InP/ZnSe/ZnS QDs.

Hyun Jun Kim, Min Young Kim, Ji Hye Kim, You Jung Kang, Woon Ho Jung, and Byung Doo Chin (Dankook Univ., Korea)

[05_16_2019]

High Resolution Quantum Dot Light Emitting Diode based on the Fine-Pitch-Nozzle Printing Process

Ji Hye Kim, Min Young Kim, Chil Won Lee, Byung Doo Chin (Dankook Univ., Korea)

[05_16_2020]

Diagnosis of Degradation in Quantum Dot Light-Emitting Diodes by Low Frequency Noise Analysis

Suhyeon Lee (Seoul Nat'l Univ., Korea), Kookjin Lee2 Gyu-Tae Kim (Korea Univ., Korea), and Jeonghun Kwak (Seoul Nat'l Univ., Korea)

[05_16_2021]

High Performance of Top-Emitting Red CdSe Quantum Dot Light-Emitting Diodes via Modified Surface Ligands

Geun Woo Baek (Seoul Nat'l Univ., Korea), Donghyo Hahm, Wan Ki Bae (Sungkyunkwan Univ., Korea), and Jeonghun Kwak (Seoul Nat'l Univ., Korea)

[05_16_2022]

Improvement of QLED Efficiency Using PCBM Doped PVK

Jae-Peel Chung, Jae-In Yoo, Suk-Ho Song, Sung-Jae Park, Sang-Soo Kim, and Jang-Kun Song (Sungkyunkwan Univ., Korea)

[05_16_2023]

Photoluminescence of InP Based Red Quantum Dot Layer Using Electroluminescence of Blue PHOLEDs

Dongpil Park, Wonhyeok Park, and Sang Soo Kim (Sungkyunkwan Univ., Korea)

[05_16_2024]

Quantum Dot Arrays Control by Photo-Polymerization of Reactive Mesogen in Dielectrophoresis Medium

Vijay Kumar Baliyan, Bomi Lee, and Jang-Kun Song (Sungkyunkwan Univ., Korea)

[05_16_2025]

TFB-Doped Quantum Dot Light-Emitting Diode for Charge Balance Improvement

Jae-In Yoo, Suk-Ho Song, Sung-Jae Park, Sang-su Kim, and Jang-Kun Song (Sungkyunkwan Univ., Korea)