

Topic Title: 14. OLED Frontplanes

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[07_14_1185]

Inorganic Thin-Film Encapsulation with a Low Temperature Process for Organic Light Emitting Diode (OLED) Application

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[07_14_1188]

Acidic Polyester-Type Binder Polymers for Photolithographic Patterning of Black Pixel Define Layer in Organic Light Emitting Diode

Genggongwo Shi (CCTech., Korea), Kyeong Ha Baek (UNIST, Korea), Jeseob Kim (CCTech., Korea), and Lee Soon Park (UNIST, Korea)

[07_14_1189]

Synthesis of Methacrylated Polyimides and Application as Thermal Stabilizer for the Black Pixel Define Layer in Organic Light Emitting Diode

Genggongwo Shi (CCTech., Korea), Kyeong Ha Baek, and Lee Soon Park (UNIST, Korea)

[07_14_1191]

Synthesis and Electron Transporting Properties of Pyridine-Substituted Anthracene Derivatives for Organic Light-Emitting Diodes

Ki Ju Kim, Hakjun Lee, Kyo Min Hwang, Taekyung Kim, and Young Kwan Kim (Hongik Univ., Korea)

[07_14_1193]

Hybrid White QD-OLED with Stable CIE_{x,y} Coordinates by Introducing of N-Type Modulation Layer

Hakjun Lee, Kyo Min Hwang, Ki Ju Kim, Young Kwan Kim, and Taekyung Kim (Hongik Univ., Korea)

[07_14_1194]

Hole Injection Properties of Inkjet-Printed OLED Displays Employing Double-Layered Bank Structure

Jiyeon Kim, Yool-Guk Kim, Donghoon Kwak, and Chang-Hee Lee (Samsung Display Co., Ltd., Korea)

[07_14_1219]

Enhanced Light-Outcoupling in ITO-Free Organic Light-Emitting Diodes Using Surface Nanostructure Embedded High-Refractive Index Polymers

Joo Won Han, Dong Woo Kim, Kwon Taek Lim, and Yong Hyun Kim (Pukyong Nat'l Univ., Korea)

[07_14_1249]

Highly Polarized Emission in a Mixture of Mesogenic Compounds

Jin-Kyung Han, Chang-Jae Yu (Hanyang Univ., Korea), E-Joon Choi (Kumoh Nat'l Inst. of Tech., Korea), and Jae-Hoon Kim (Hanyang Univ., Korea)

[07_14_1254]

Origin of Relaxation Frequency Change in Blue Organic Light-Emitting Diodes

Yeeun Kim, Inyeob Na, Youkyung Seo (Sookmyung Women's Univ., Korea), Heeyoung Chae, Kilhwan Oh, Joonyoung Yang, Sooyoung Yoon (LG Display Co., Ltd., Korea), and Min-Kyu Joo (Sookmyung Women's Univ., Korea)

[07_14_1255]

Contact Resistance and Trap Energy Degradation in Blue Organic Light-Emitting Diodes

Youkyung Seo, Inyeob Na, Yeeun Kim (Sookmyung Women's Univ., Korea), Heeyoung Chae, Kilhwan Oh, Joonyoung Yang, Sooyoung Yoon (LG Display Co., Ltd., Korea), and Min-Kyu Joo (Sookmyung Women's Univ., Korea)

[07_14_1311]

Solution Processed Doping for Poly(3,4-Ethylenedioxythiophene)-Poly(Styrenesulfonate) Hole Injection Layer of Organic Light-Emitting Diodes

Jae-Min Yoo, Gunel Huseynova, Baek-Sang Sung, Seung-Hoon Lee, Jang Won Lee, Seung Wan Woo (Hanbat Nat'l Univ., Korea), Yong Hyun Kim (Pukyong Nat'l Univ., Korea), Jae-Hyun Lee, and Jonghee Lee (Hanbat Nat'l Univ., Korea)

[07_14_1336]

3 Stack Top Emitting Tandem White Organic Light Emitting Diodes for High Resolution Micro Display

Chur-Hyun Shin and Seung Hyun Lee (KETI, Korea)

[07_14_1389]

Colored Electrodes for Blue Phosphorescent Organic Light-Emitting Diodes

Gunel Huseynova, Young-Ji Lim, Akpeko Gasonoo (Hanbat Nat'l Univ., Korea), Chul Woong Joo (ETRI, Korea), Jae-Min Yoo, Seung-Hoon Lee (Hanbat Nat'l Univ., Korea), Jaeyoung Park (Hanbat Nat'l Univ., Korea and ETRI, Korea), Nam Sung Cho (ETRI, Korea), Yong Hyun Kim (Pukyong Nat'l Univ., Korea), Jonghee Lee, and Jae-Hyun Lee (Hanbat Univ., Korea)

[07_14_1422]

Micropatterning of Green and Red Emitting Layers through Photolithography

Yu Min Choi, Han Young Shin, Euiho Lee (Univ. of Seoul, Korea), Jongchan Son, Chunhee Park, Jin-Kyun Lee (Inha Univ., Korea), Byung Jun Jung (Univ. of Seoul, Korea)

[07_14_1425]

Visible Parylene Film as Conformal Light Extraction Layer for Improving the Outcoupling Efficiency and Spectral Stability of Bottom-Emitting OLEDs

Akpeko Gasonoo, Ye-Seul Lee, Ji-Hyeon Yoon, Baek-Sang Sung, Yoonseuk Choi, Jonghee Lee, and Jae-Hyun Lee (Hanbat Nat'l Univ., Korea)

[07_14_1428]

Passivation for Organic Light-Emitting Diodes Using Cyclo-Olefin Polymer Film for Flexible Display

Ji-Hoon Park, Byung-Min Park, and Kwan-Young Han (Dankook Univ., Korea)

[07_14_1430]

Optical Spectroscopic Analysis of Hole-Transporting Organic Molecules with Electrochemical Methods

Seo-Yoon Lee, Young-Ji Lim, Jonghee Lee, and Jae-Hyun Lee (Hanbat Nat'l Univ., Korea)

[07_14_1448]

The Effect of Molecular Structure of Host Materials for Solution Processed OLEDs

Da Hwan Lee, Ja Yeon Lee, and Min Chul Suh (Kyung Hee Univ., Korea)

[07_14_1455]

The White Perovskite Quantum Dot LED

Jungwon Kim, Min Woo Hyeon, Thi Na Le, and Min Chul Suh (Kyung Hee Univ., Korea)

[07_14_1457]

Improved White Angle Difference of Microcavity OLEDs by Applying Nano-Islands Formed beneath Anode

Jae Ho Song, Dae Yeong Kim, Eunyoung Park, and Min Chul Suh (Kyung Hee Univ., Korea)

[07_14_1601]

Improved Barrier Property and Controllability of Laterally Mixed Nanostructure Using Plasma-Enhanced Atomic Layer Deposition

Dong-Yeon Kim, Ju-Hwan Han, and Jin-Seong Park (Hanyang Univ., Korea)

[07_14_1633]

Nano-Hole Arrays for Efficient Light Extraction in Perovskite Light-Emitting Diodes

Jee-Won Jung, Young-Jin Jung, Seung-Taek Lee, Youn-Seob Shin, and Jeong-Hwan Lee (Inha Univ., Korea)

[07_14_1640]

Highly Efficient Dual-Gate Organic Light-Emitting Transistors

Seung-Taek Lee, Young-Jin Jung, Jee-Won Jung, Youn-Seob Shin, Jeong-Hwan Lee (Inha Univ., Korea)

[07_14_1690]

Highly Efficient Blue Thermally Activated Delayed Fluorescence with Ortho-Donor Appended Cyclic Boryl Acceptor

Woochan Lee (KAIST, Korea), Hanif Mubarak, Taehwan Lee, Jaehoon Jung, Min Hyung Lee (Univ. of Ulsan, Korea), and Seunghyup Yoo (KAIST, Korea)

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Color Purity Control of Bottom-Emission Organic Emitting Diodes Using Semireflective Metal Thin Film

Dong-pil Park, Won-hyeok Park, and Sang Soo Kim (Sungkyunkwan Univ., Korea)

[07_14_2015]

Device Engineering of Blue Hyperfluorescence OLED Using TADF Sensitizer and Boron Type Dopant Materials

Hui Jae Choi, Young Ho Shin, Chil Won Lee, and Byung Doo Chin (Dankook Univ., Korea)