

IMiD 2018

August 28 - 31, 2018 / BEXCO, Busan, Korea

Session Title: Poster Session III
Date: Aug. 31 (Fri.), 2018
Time: 14:00~15:30
Room 2B Hall (Room 1F)

[P3-1] 14:00~15:30

[Poster] High Mobility Transparent Thin Film Transistor with 5nm-Indium Oxide by Atomic Layer Deposition

Jongchan Lee (Korea Univ., Korea), Seung-Youl Kang, Jaehyun Moon, Jae-Eun Pi, Seong-Deok Ahn, Himchan Oh (ETRI, Korea), and Kwang-Ho Kwon (Korea Univ., Korea)

[P3-2] 14:00~15:30

[Poster] Flexible Oxide TFT Fabricated on 350°C Processable Glass-Fabric Reinforced Siloxane Hybrid (GFRHybrimer) Film

Young-Woo Lim, Seung-Hee Lee, Yong Ho Kim, Sang-Hee Ko Park, and Byeong-Soo Bae (KAIST, Korea)

[P3-3] 14:00~15:30

[Poster] Folding Stability of Organic-Inorganic Multilayer Near Neutral Plane

Soungbo Ham, Haksoo Lee, and Sungmin Cho (Sungkyunkwan Univ., Korea)

[P3-4] 14:00~15:30

[Poster] Synthesis and Characterization of a Thermally Curable 4-(Trifluorovinyl)benzoyl Substituted Poly(4-vinylphenol) for Gate Insulator in Thin Film Transistor

Gyeongmin Ki and Taek Ahn (Kyung Sung Univ., Korea)

[P3-5] 14:00~15:30

[Poster] Low-Temperature Processable, Photo-Curable Polyimides as Gate Insulators for Thin-Film Transistors

Gyeongmin Ki and Taek Ahn (Kyung Sung Univ., Korea)

[P3-6] 14:00~15:30

[Poster] Synthesis and Characterization of Post-Functionalized Photo-Patternable Soluble Polyimide Gate Insulator for Pentacene Thin Film Transistors

Gyeongmin Ki and Taek Ahn (Kyung Sung Univ., Korea)

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14:00~15:30

[Poster] Ultra-Flat and Transparent Silver Nanowire Network for Flexible and Leakage-Free Organic Light-Emitting Diodes

Tae Hong Im and Keon Jae Lee (KAIST, Korea)

[P3-8]

14:00~15:30

[Poster] Transparent Intelligent Display Module for Exhibition Industry

Haiyan Wan, Xingqun Jiang, Quanzhong Wang, Weiguo Li, Xiaodong Shi, Fan Yang, Zifeng Wang, and Junning Su (BOE Tech. Group Co., Ltd., China)

[P3-9]

14:00~15:30

[Poster] High-Resolution Patterns of Solution-Processed Organic Light-Emitting Diode Based on Chemically Modified Bank Structure

Sin-Hyung Lee, Hea-Lim Park, Sujie Kang, and Sin-Doo Lee (Seoul Nat'l Univ., Korea)

[P3-10]

14:00~15:30

[Poster] Improvement in Performance of Solution Processed Organic-Inorganic Hybrid Gate Dielectrics via UV Treatment

JaeSeok Hur, JeongOh Kim, HyeonA Kim, SiHyung Lee, and JaeKyeong Jeong (Hanyang Univ., Korea)

[P3-11]

14:00~15:30

[Poster] Transparent Barrier Electrode with Multilayered Thin Film Structure for Flexible Organic Light Emitting Diode

Tae-Woo Lee, Eun Gyo Jeong, Dohong Kim, Jun Hee Han, Ho Seung Lee, and Kyung Cheol Choi (KAIST, Korea)

[P3-12]

14:00~15:30

[Poster] Residual Stress Optimized Encapsulation Barrier with Double Buffer Layer for Transparent and Flexible Displays

Eun Gyo Jeong, Jun Hee Han, and Kyung Cheol Choi (KAIST, Korea)

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14:00~15:30

[Poster] Hybrid Encapsulation Technology of the OLED with Edge Sealing Line

Geon Bae, Han-Jun Yun, and Cheol-Hee Moon (Hoseo Univ., Korea)

[P3-14]

14:00~15:30

[Poster] All Solution Processed Organic Light Emitting Diode Using Printed Silver Electrode

Han-Jun Yun, Geon Bae, and Cheol-Hee Moon (Hoseo Univ., Korea)

[P3-15]

14:00~15:30

[Poster] Effect of Soft/Hard Segments in Poly (Tetramethylene Glycol)-Polyurethane for Water Barrier Film

Kyung Seok Kang, Ji-Hong Bae, Chanhyuk Jee, Hyo Jin Jung, and PilHo Huh (Pusan Nat'l Univ., Korea)

[P3-16]

14:00~15:30

[Poster] Activation of IGZO Channel Thin Film Transistors by Electron-Beam Annealing

Moon Uk Cho, Yu-Jung Cha, Tae Kyoung Kim, and Joon Seop Kwak (Sunchon Nat'l Univ., Korea)

[P3-17]

14:00~15:30

[Poster] Ultrathin Thin Film Transistors by Debonding Process Using Water Soluble PVA

Jae Moon Kim, Jongsu Oh, Kyung-Mo Jung (Sungkyunkwan Univ., Korea), KeeChan Park (Konkuk Univ., Korea), Jae-Hong Jeon (Korea Aerospace Univ., Korea), and Yong-Sang Kim (Sungkyunkwan Univ., Korea)

[P3-18]

14:00~15:30

[Poster] 12.3RGBW LCD MDL with High Transmittance

Pengtao Li, Zhipeng Zhang, Wenyang Li, Bin Long, Jie Yu, Rui Han, Qing Ma, DK Yoon, Yifang Chu, Bo Wu, Bo Shi, and Wei Guo (BOE Optoelectronics Tech. Co., Ltd., China)

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14:00~15:30

[Poster] Achieving High Mobility in IGTO Thin-Film Transistors at a Low Temperature via Film Densification

Hyeon-A Kim, JeongOh Kim, JaeSeok Hur, Min Jae Kim, Su Eon Lee, and Jae Kyeong Jeong (Hanyang Univ., Korea)

[P3-20]

14:00~15:30

[Poster] Structural Effects on the Electrical Performance of Indium-Zinc-Oxide Thin-Film Transistor by Zinc Concentration

Dongwook Kim, Hyunji Shin (Hongik Univ., Korea), Jaehoon Park (Hallym Univ., Korea), and Jong Sun Choi (Hongik Univ., Korea)

[P3-21]

14:00~15:30

[Poster] Bias Instability of Indium-Doped Zinc-Oxide Thin-Film Transistor

Dongwook Kim, Hyunji Shin (Hongik Univ., Korea), Jaehoon Park (Hallym Univ., Korea), and Jong Sun Choi (Hongik Univ., Korea)

[P3-22]

14:00~15:30

[Poster] Improvement of Doping Efficiency in Al-Doped ZnO Thin Films with ALD Pulse Sequence Control

Hyo Seok Lee and Jaeyeong Heo (Chonnam Nat'l Univ., Korea)

[P3-23]

14:00~15:30

[Poster] Transparent and Flexible Cover Window for Foldable Display

Kang-Han Kim and Yong-Cheol Jeong (KITECH, Korea)

[P3-24]

14:00~15:30

[Poster] The Characterization of AF Film Derived from Inorganic Polysilazane for Electronic Devices

Jeong Ju Baek, Han Sol Back, Gwang Sik Song, Young Hun Kim, Ki Cheol Chang, Kyung Ho Choi, and Gyo Jic Shin (KITECH, Korea)

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14:00~15:30

[Poster] A Study on Self-Cleaning Anti-Reflection Characteristics of Polymer/Inorganic Multilayer Thin Films with Plasma Polymer Fluorocarbon as Top Layer

Mac Kim, Sung Hyun Kim, Tae-Woon Kang, and Sang-Jin Lee (KRICT, Korea)

[P3-26]

14:00~15:30

[Poster] Plasma Polymer Fluorocarbon/Inorganic Multilayer Films for Application to Moisture Barrier Coatings Deposited Using Roll-to-Roll Sputtering

Tae-Woon Kang, Sung Hyun Kim, Mac Kim, and Sang-Jin Lee (KRICT, Korea)

[P3-27]

14:00~15:30

[Poster] Mid-Range Frequency Sputtering of Carbon Allotropes/PTFE Composite: High Hardness Plasma Polymer Fluorocarbon Thin Film Study

Sung Hyun Kim, Mac Kim, Tae-Woon Kang, and Sang-Jin Lee (KRICT, Korea)

[P3-28]

14:00~15:30

[Poster] Optically Isotropic Pitch Length Dependent Tunable Diffraction Gratings with IPS Cell

Srinivas Pagidi, Ramesh Manda, T Arun Kumar, Hyesun Yoo, Sung Guk Lee, Seong Min Song, Young Jin Lim, and Seung Hee Lee (Chonbuk Nat'l Univ., Korea)

[P3-29]

14:00~15:30

[Poster] Encapsulation Characteristics of Improved Graphene Oxide Thin Film for Flexible OLED Displays

Seung-Yeol Yang, Chan-Soo Kim, and Yong-Seog Kim (Hongik Univ., Korea)

[P3-30]

14:00~15:30

[Poster] Enhancing Mechanical and Electrical Performance of Flexible Amorphous InGaZnO Thin-Film Transistors Using Organic/Inorganic Hybrid Buffer Layer

Ki-Lim Han, Hyun-Jun Jeong, Beom-Su Kim, Seong Hyeon Lee, and Jin-Seong Park (Hanyang Univ., Korea)

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14:00~15:30

[Poster] Improvement of Out-Coupling Efficiency of Flexible Organic Light Emitting Diode with Micro-Structure Patterned Parylene Substrate

Ahreum Kim, Akpeko Gasonoo, Young-Ji Lim, Yoonseuk Choi, Jonghee Lee, and Jae-Hyun Lee (Hanbat Nat'l Univ., Korea)

[P3-32]

14:00~15:30

[Poster] Ultra-Thin Glass Covers for Foldable Displays

Seung Kim and June Hyoung Park (Samsung Display Co., Ltd., Korea)

[P3-33]

14:00~15:30

[Poster] Analysis of Recoverable Residual Image in Flexible Organic Light Emitting Diode Displays Using Flexible Substrates

Han Wook Hwang, Seonghwan Hong (Yonsei Univ., Korea), Sang Soo Hwang, Yong Min Ha (LG Display Co., Ltd., Korea), and Hyun Jae Kim (Yonsei Univ., Korea)

[P3-34]

14:00~15:30

[Poster] Oxide Semiconductor Based Photo-Memory with a Multilevel Memory Behavior in the Visible Light Region

Jin Hyeok Lee, Sung Pyo Park, Tae Soo Jung, Hee Jun Kim, Dong Woo Kim, and Hyun Jae Kim (Yonsei Univ., Korea)

[P3-35]

14:00~15:30

[Poster] Solution-Processed Fluoropolymer Organic Passivation Layers for Highly Stable Solution-Processed Metal-Oxide Thin-Film Transistors

Seung Beom Choi, Seung Ho Song, and Yong-Hoon Kim (Sungkyunkwan Univ., Korea)

[P3-36]

14:00~15:30

[Poster] Top-Illuminated Photodetecting Device with Organic Photodiode and Oxide TFT for Digital Imaging System

Min Kook Kim, Hyun-Jae Kim, Myo Jeong Choi, Chul Jong Han, Byung Wook Yoo, and Min Suk Oh (KETI, Korea)

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14:00~15:30

[Poster] Threshold Voltage Tuning in Multilayer MoS₂ Transistors via Fluorine-Based Plasma Treatment

Geon Wook Yoo, Ji Yeon Ma (Soongsil Univ., Korea), Young Seo Park (Ajou Univ., Korea), So Hyeon Kim, Young Woo Joo (Soongsil Univ., Korea), Jun Seok Heo (Ajou Univ., Korea), and Min Suk Oh (KETI, Korea)

[P3-38]

14:00~15:30

[Poster] Degradation by X-Ray Irradiation of a-IGZO Thin Film Transistors Used in Digital X-Ray Detector

Jun-Sun Lee, Myeong-Ho Kim, Dong-gyu Kim (Hanyang Univ., Korea), Myoung-Su Yang, Youn-Gyoung Chang, Jin-Pil Kim, Young-Jin Yi (LG Display Co., Ltd., Korea), and Duck-Kyun Choi (Hanyang Univ., Korea)

[P3-39]

14:00~15:30

[Poster] The Influence of NH₃/SiH₄ Ratio in a-SiNx:H Layer on the Performance of Hydrogenated Amorphous Thin Film Transistor

Wei-Wei Hu, Jin-Cheng Gao, Ji Zhang, Tao Jiang, Guang-Long Guo, Seung-Jin Choi, Jong-Won Moon, and Byung-Cheon Lim (Hefei BOE Display Tech., Co., Ltd., China)

[P3-40]

14:00~15:30

[Poster] Effects of Precursor Engineering on Zinc-Tin Oxide Thin Film Transistors

Tae Soo Jung, Hee Soo Lee, Hee Jun Kim, Jin Hyeok Lee, and Hyun Jae Kim (Yonsei Univ., Korea)

[P3-41]

14:00~15:30

[Poster] Improve Contact Property in Low Temperature Process via Ultrathin Al₂O₃ Interlayers at Metal-Semiconductor Junction

Sung Hyeon Jung, Cheol Hyoun Ahn, Dae-Young Shin, and Hyung Koun Cho (Sungkyunkwan Univ., Korea)

[P3-42]

14:00~15:30

[Poster] Multi-Channel Phase-Demodulation Electrical Inspector in Manufacturing Process for Flat Panel Active-Matrix Array

Uh-Ho Shin and Hyun-Sik Kim (Dankook Univ., Korea)

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14:00~15:30

[Poster] Coplanar a-InGaZnO Thin Film Transistors with Photo-Patterned Ionic-Polymer Gate Dielectric

Da Yoon Lee, Yong Chan Kim, and Ho Jin Lee (Soongsil Univ., Korea)

[P3-44]

14:00~15:30

[Poster] Large-Scale Dry Etching Using a Linear ECR Plasma Source with Reciprocating Substrate Motion

SungYong Kwon, HoWon Yoon, YunSung Jang, SeungMin Shin, Seungjun Yi, and MunPyo Hong (Korea Univ., Korea)

[P3-45]

14:00~15:30

[Poster] Thermal-Free High Dense Thin Film Deposition Using Neutral Particle Beam Assisted Sputtering (NBAS) System

SeungMin Shin, YunSung Jang, SeungJun Yi, and MunPyo Hong (Korea Univ., Korea)

[P3-46]

14:00~15:30

[Poster] Electrical and Optical Properties of Indium Tin Oxide Films Fabricated by Magnetic Field Shielded Sputtering Process

SeulGi Kim, DongHyeok Lee, KyungDuck Kim, and MunPyo Hong (Korea Univ., Korea)

[P3-47]

14:00~15:30

[Poster] Transparent Flexible Vertical GaN MicroLEDs for Wireless Biomedical Stimulator

Han Eol Lee, Jung Ho Shin, Jung Hwan Park, Jae Hee Lee, and Keon Jae Lee (KAIST, Korea)

[P3-48]

14:00~15:30

[Poster] The Analysis of Photoresist Uniformity for Slit with Spin Coater and Fine Slit Coater

Ze-Xu Liu, Jin-Cheng Gao, liang Chen, Byung-Cheon Lim, Jong-Won Moon, Seung-Jin Cho (Hefei BOE Display Tech., Co., Ltd., China), and Bao Tian (Beijing BOE Optoelectronics Tech., Co., Ltd., China)

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14:00~15:30

[Poster] Improvement of Step Open for Oxide BCE Technology

Huili Wu, Guangcai Yuan, Qi Yao, Wusheng Li, Dongsheng Li, Jing Feng, Dapeng Xue, Shunhang Zhang, Jintao Peng, Shiwei Li, Dongsheng Yin, Xinglong Luan, Renquan Gu, and Fang He (BOE Tech., Group Co., Ltd., China)

[P3-50]

14:00~15:30

[Poster] Development of High Resolution Continuous Patterning Technology for Roll-to-Roll Micro-Contact Printing

Ju-Ryong Kim, So-Hyeon Lee, Amos Amoako Boampong, Dong Soo Kim, and Min-Hoi Kim (Hanbat Nat'l Univ., Korea)

[P3-51]

14:00~15:30

[Poster] Preliminary Research on Improving Resolution with Phase Shift Mask

Na Zhao, Miao Yuan, Qiyu Shen, Jianying Zhan, Yijun Wang, Ru Zhou, Gaofei Shi, Jun Zhang, Xufei Xu, Jie Song, Zhaofan Liu, and Na Zhao (Hefei BOE Optoelectronics Tech., Co., Ltd., China)

[P3-52]

14:00~15:30

[Poster] Study on Effect of Multi Factors to Improve via Etch Rate, Uniformity and Profile

Liang Chen, Tao Wang, Jin-cheng Gao, Ze-xu Liu, Tao Jiang, Seung-Jin Choi, Jong-Won Moon, and Byung-Cheon Lim (Hefei BOE Display Tech., Co., Ltd., China)

[P3-53]

14:00~15:30

[Poster] Improvement of Optical Alignment Product Image Sticking Issue

Juncai Ma, Xiaobin Yin, Yue Shi, Lisen Wang, Chaozhi Yu, Sheng Wang, Yun Bok Lee, Junsheng Chen, and Seung Kyu Lee (Hefei BOE Optoelectronics Tech., Co., Ltd., China)

[P3-54]

14:00~15:30

[Poster] Mechanism Study of Exposed Pad Corrosion in Reliability Condition

Chaozhi Yu, Ji Li, Zhen Zhang, Bowen Qu, Xiaobin Yin, Zhengwei Zhu, Ku Hyun Park, Sheng Wang, Yun Bok Lee, Junsheng Chen, and Seung Kyu Lee (Hefei BOE Optoelectronics Tech., Co., Ltd., China)

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14:00~15:30

[Poster] Analysis in the Factors of Display Failure Caused by Coupled Electric Field

Liu Hong, Yuan Xuchen, Chen Wei, Li Xin, Song Yong, and Yu Hongjun (BOE Optoelectronics Tech., Co., Ltd., China)

[P3-56]

14:00~15:30

[Poster] The Factors of Affecting Display Difference from Beginning to End Scanning on 6 Mask TDDI Product

Chen Weixiong, Li xin, Song yong, Yu hongjun, Yin yanyan, and Zhang Le (BOE Optoelectronics Tech., Co., Ltd., China)

[P3-57]

14:00~15:30

[Poster] Characteristics Improvements of a-IGZO TFT by Pressure Optimization of Passivation Layer Deposition

Dezhi Xu, Xianxue Duan, Na Zhao, Tianzhen Liu, Kui Gong, Zhihai Zhang, Yang Sik Youn, Junsheng Chen, and Seung Kyu Lee (Hefei BOE Optoelectronics Tech. Co., Ltd., China)

[P3-58]

14:00~15:30

[Poster] Research on Pixel Design and Mura Defect at High Gray Level of ADS LCD

Yuan Xuchen, Liu Hong, Li Yangheng, Li Xin, Song Yong, Yuan Hongliang, and Yu Hongjun (BOE Optoelectronics Tech., Co., Ltd., China)

[P3-59]

14:00~15:30

[Poster] Technology of In-Cell Anti-Blue-Ray Films Based on TFT Process

Xin Yi, Bing Wang, Zhi Liu, Hui Wang, Xianjie Shao, Junsheng Chen, and Seung Kyu Lee (Hefei BOE Optoelectronics Tech., Co., Ltd., China)

[P3-60]

14:00~15:30

[Poster] Improving Resolution in Photolithography with a Wing Pattern Mask

Yijun Wang, Zhaofan Liu, Qiyu Shen, Jianying Zhan, Na Zhao, Gaofei Shi, Ru Zhou, Jun Zhang, Xufei Xu, Miao Yuan, Jie Song, and Yijun Wang (Hefei BOE Optoelectronics Tech. Co., Ltd., China)

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14:00~15:30

[Poster] Etching Characteristics of Silicon Nitride Surfaces Using In-Line Equipment with Atmospheric Glow Plasma for Large Size Display

Jang-Sick Park, Yoon-Suk Heo, and Bang-Kwon Kang (APP Co., Ltd., Korea)

[P3-62]

14:00~15:30

[Poster] First OLED Fabrication Using Plane Source Evaporation

Chang Hun Hwang, Byung Doo Chin, Sung Su Kim, Shin Woong Bang, and Se Ho Choi (Dankook Univ., Korea)

[P3-63]

14:00~15:30

[Poster] Characteristic Improvement of Top Gate InSnGaO (ITGO) TFT

Hyun Jae Jang, Kyung Deok Kim, Seul Gi Kim, Bo Sung Kim, and Mun Pyo Hong (Korea Univ., Korea)

[P3-64]

14:00~15:30

[Poster] High Mobility Self-Aligned Coplanar Amorphous-Aluminum-Doped-Indium-Zinc-Tin Oxide Thin-Film Transistors

Hyun Jae Jung (Korea Univ., Korea), Chi-Sun Hwang, Sung Haeng Cho (ETRI, Korea), and Bo Sung Kim (Korea Univ., Korea)

[P3-65]

14:00~15:30

[Poster] Effects of Substrate Cooling on Ionic Conductivity of Tantalum Oxide Thin Films Prepared by Reactive Sputtering Using Water Vapor Injection

Yusuke Ito, Yoshio Abe, Midori Kawamura, Kyung Ho Kim, and Takayuki Kiba (Kitami Inst. of Tech., Japan)

[P3-66]

14:00~15:30

[Poster] Plasma Damage-Free Sputtering of AlN Passivation Layer on Organic Light Emitting Devices

Do-Yeol Yoon, Tae-Young Kim, and Dae-Gyu Moon (Soonchunhyang Univ., Korea)

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14:00~15:30

[Poster] Direct Silver and Copper Electrodes Patterning with Electrohydrodynamic Jet Printer

Thu Thuy Thi Can, Canh Tuan Nguyen, Jaegun Woo, Yun-Soo Kim, and Woon-Seop Choi (Hoseo Univ., Korea)

[P3-68]

14:00~15:30

[Poster] Effect of the Solvent Mixture and Surface Treatment of Substrate on the Coffee Ring Stain in Inkjet Printing Process

Jin-Beom Kim, Kang-Han Kim, and Yong-Cheol Jeong (KITECH, Korea)

[P3-69]

14:00~15:30

[Poster] Analysis of SiO₂ Thin Film Properties for High Performance TFT

Kanghyun Kim, Younggil Park, Nari Ahn (Samsung Display Co., Ltd., Korea), Dong Hyun Kim, and Jae Woo Lee (Korea Univ., Korea)

[P3-70]

14:00~15:30

[Poster] A New Formation of Multi-layered n+ Silicon Films Using Four-mask process Architecture for Image Sticking Improvement in 32" TV Product

Feng-Yun Yang, An-Thung Cho, James Hsu, Zhen Liu, Kai-Jun Liu, Qiong-Hua Mo, Wade Chen, and York Lu (Chongqing HKC Optoelectronics Tech. Co., Ltd., China)

[P3-71]

14:00~15:30

[Poster] Reliability Improvement of OLED Display Module by Utilizing Hyper-Viscoelastic Material Characteristic

Wookjae Lee, Youngkuil Joo, and Jungmin Park (Samsung Display Co., Ltd., Korea)

[P3-72]

14:00~15:30

[Poster] A Novel Single Substrate LCD Using Patterned Micro-Tunnel Arrays

Heekeun Lee, Yeuntae Kim, Veidhes Basrur, Taejin Kong, Daehyun Kim, Hyunmin Cho, Keunkyu Song, Sungchan Jo, and Jinoh Kwag (Samsung Display Co., Ltd., Korea)

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14:00~15:30

[Poster] Effect of Magnetic Field Intensity and Process Parameter on Properties of Amorphous InGaZnO Thin Film Transistors in Sputtering System

Hang Kang, Do Hyun Kim, Chang Kyu Lee, Da Young In, Dong Ju Oh, and Sang Ho Lee (ULVAC Korea. Ltd., Korea)

[P3-74]

14:00~15:30

[Poster] Advanced FSA(UV Curing like) Process Technology to Improve Sandy Mura for G8.6 TFT-LCDs

Yu Yao, Min Li, Jeff Chou, James Hsu, Wade, and York (Chongqing HKC Optoelectronics Tech. Co., Ltd., China)

[P3-75]

14:00~15:30

[Poster] A Simple and Effective Method to Improve Array Yield in Four-Mask Technology for Large-Size TFT-LCDs

Jeff Zhou, Yi-Qun Tian, Bang-Tong Ge, Ting-Ting Fu, Feng-Xiang Long, James Xu, Wade Chen, and York (Chongqing HKC Optoelectronics Tech. Co., Ltd., China)

[P3-76]

14:00~15:30

[Poster] Fabrication of Various Optical Retarders by Nanolithography of Alignment Layer

Hee Jung Ryu and Ji-Hoon Lee (Chonbuk Nat'l Univ., Korea)

[P3-77]

14:00~15:30

[Poster] A Novel Phenothiazinyl Multi- β Oxime Ester Photoinitiator

Won Jung Lee, Deuk Rak Lee, Jung Sik Choi, and Chun Rim Oh (Samyang Corp., Korea)

[P3-78]

14:00~15:30

[Poster] A Study of Lithium Complex Behavior Change Caused by Thermal Stress under High Temperature

Man Jae Park, Kihyun Kim, Olga Egorova, and Nari Ahn (Samsung Display Co., Ltd., Korea)

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14:00~15:30

[Poster] Image Quality for Convex Curved Liquid Crystal Display with High Curvature 800R by Viewing Position

Bum-Jin Yoon (KETI, Korea), Seung-Duk Kim, Kyung-Ha Lee (Tovis, Korea), and Chan-Jae Lee (KETI, Korea)

[P3-80]

14:00~15:30

[Poster] Cu/Cu Barrier Interconnect for the Next-Generation High Resolution Display Fabricated Using Electron Cyclotron Resonance (ECR) Sputtering Method

Wooseok Jeong (KAIST, Korea), Jae-Chul Doe, Jeong Rak Lee, Wan Woo Park (AVACO, Korea), and Sang-Hee Ko Park (KAIST, Korea)

[P3-81]

14:00~15:30

[Poster] Characterization of the Degree of Cure of UV Hybrid Type PSA by Modulus Measurement

Hwa-Jeong Choi, Jong-Ho Shin, Ah-Sell Cho, Mi-Hee Kim, Heemin Yoo, and Eun-Ah Kim (Samsung Display Co., Ltd., Korea)

[P3-82]

14:00~15:30

[Poster] Hydrogen Analysis Using Magnetic Peak Switching by Nano-Secondary Ion Mass Spectrometry

Ji-Hye Lee, Jaedong Choi, Soocheol Park, Myeongkyu Park, Eunah Kim, and Nari Ahn (Samsung Display Co., Ltd., Korea)

[P3-83]

14:00~15:30

[Poster] Effects of the Solvent Formulation on the Pattern Uniformity of An Inkjet-Printed Bipolar Host for Green Phosphorescent Organic Light-Emitting Diodes

Youjung Kang, Jihye Kim, Robert Bail, Chilwon Lee, and Byungdoo Chin (Dankook Univ., Korea)

[P3-84]

14:00~15:30

[Poster] Highly Efficient Deep Blue Fluorescent Organic Light-Emitting Diodes by Using TADF Type Sensitizing Host

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

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14:00~15:30

[Poster] Four-Mask Process Architecture Using NH₃ Plasma Treatment Technology for Image Sticking Improvement in 32" TV Product

Feng-Yun Yang, An-Thung Cho, James Hsu, Zhen Liu, Kai-Jun Liu, Wade Chen, and York Lu (Chongqing HKC Optoelectronics Tech. Co., Ltd., China)

[P3-86]

14:00~15:30

[Poster] Control of the Pattern Resolution for Inkjet-Printed CdSe Quantum Dot Light Emitting Diode

Ji-Hye Kim, Gyeong Seok Hwang, You Jung Kang, Robert Bail, Chil Won Lee, and Byung Doo Chin (Dankook Univ., Korea)

[P3-87]

14:00~15:30

[Poster] Advanced Halftone Photolithography Using High Efficient Four-Mask Technology for G8.6 TFT-LCDs

An-Thung Cho, Zhen Liu, James Hsu, Jeff Zhou, Feng-Xiang Long, Feng-Yun Yang, Ting-Ting Fu, Qiong-Hua Mo, Kai-Jun Liu, Bang-Tong Ge, Wade Chen, York Lu (Chongqing HKC Optoelectronics Tech. Co., Ltd., China)

[P3-88]

14:00~15:30

[Poster] High-Flatness OC Material for M+ Model Applying Siloxane Binder

HyeYoung Jung, SangPyo Hong, DongWoo Kang, YoungSeok Choi, and HwanMyeong Kim (LG Display Co., Ltd., Korea)

[P3-89]

14:00~15:30

[Poster] Plane Source FMM Evaporation Technology for 2250ppi AMOLED

Changhun Hwang, Sung Su Kim, Shin Woong Bang, Se Ho Choi, and Byung Doo Chin (Dankook Univ., Korea)

[P3-90]

14:00~15:30

[Poster] Three-Dimensionally Structured Voxels and Holographic Color Switching for Volumetric Display

Kota Kumagai, Ibuki Yamaguchi, and Yoshio Hayasaki (Utsunomiya Univ., Japan)

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14:00~15:30

[Poster] Flicker Measurement of 360-Degree Tabletop Electronic Holographic Display

Jeho Nam and Jinwoong Kim (ETRI, Korea)

[P3-92]

14:00~15:30

[Poster] Light Field Imaging System Utilizing Switchable Micro-Lens Array to Improve Depth of Field and Resolution of Reconstructed Image

Tae-Hyun Lee, Min-Kyu Park, Kyung-Il Joo, and Hak-Rin Kim (Kyungpook Nat'l Univ., Korea)

[P3-93]

14:00~15:30

[Poster] Quality Analysis of Light-Waves for Wireless Transmission System of CGHs

Kazuhiro Yamaguchi (Suwa Tokyo Univ. of Science, Japan) and Yuji Sakamoto (Hokkaido Univ., Japan)

[P3-94]

14:00~15:30

[Poster] Influence of Changing Motion Direction on Depth Perception from Motion Parallax

Yuki Masuda, Ippei Kanayama, Shiro Suyama, and Haruki Mizushima (Tokushima Univ., Japan)

[P3-95]

14:00~15:30

[Poster] Measurement and Estimation of Speckle Distribution in 360-Degree Table-Top Electronic Holographic Display System

Yongjun Lim and Jinwoong Kim (ETRI, Korea)

[P3-96]

14:00~15:30

[Poster] High Resolution Full Parallax Light Field Display with 4 Physiological Depth Cues

Jaejoong Kwon, Beomshik Kim, Sujung Huh, Joowoan Cho, Juhwa Ha, Subin Jung (Samsung Display Co., Ltd., Korea), Junghoon Lee (Sekonix Co., Ltd., Korea), Keunkyu Song, Hye Yong Chu, and Sungchan Jo (Samsung Display Co., Ltd., Korea)

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[Poster] High-Resolution Light Field Acquisition without Defocus Noise

Ni Chen (Chinese Academy of Sciences, China) and Byoung-ho Lee (Seoul Nat'l Univ., Korea)

[P3-98]

14:00~15:30

[Poster] Wide Viewing Angle Holographic Display Using Ultra High Resolution SLM

Hyesog Lee, Jae-Ho Yu, Young-Chan Kim, Sang-Ho Kim, Cheon-Myeong Lee, Byung-Choon Yang, Sung-Chan Jo, Hye-Yong Chu, and Jin-Oh Kwag (Samsung Display Co., Ltd., Korea)

[P3-99]

14:00~15:30

[Poster] Influence on Visibility as Anti-Glare Coated Cover Window and Airgap under Lighting Conditions

Chan-Jae Lee and Min-Gi Kwak (KETI, Korea)

[P3-100]

14:00~15:30

[Poster] A Depth-Enhanced Integral Imaging System Using an Active Polarization Switching Device and a Geometric Phase Lens

Minyoung Park (Sejong Univ., Korea), Kyung-Il Joo, Hak-Rin Kim (Kyungpook Nat'l Univ., Korea), and Hee-Jin Choi (Sejong Univ., Korea)

[P3-101]

14:00~15:30

[Poster] Glass-Ball Three-Dimensional Display with Two-Axis Scanner

Daerak Heo, Sungjin Lim, Geunseop Choi, and Joonku Hahn (Kyungpook Nat'l Univ., Korea)

[P3-102]

14:00~15:30

[Poster] Aerial Interpersonal 3D Screen with AIRR that Shares Your Gesture and Your Screen with an Opposite Viewer

Ryota Kakinuma, Masaki Yasugi, Shusei Ito, Kengo Fujii, and Hirotsugu Yamamoto (Utsunomiya Univ., Japan)

[P3-103]

14:00~15:30

[Poster] Full Color Holographic Tabletop Display with Video Streaming Function

Jaehan Kim (ETRI, Korea), Kisoo Seol (ASTEL, Korea), Minsik Park, and Jinwoong Kim (ETRI, Korea)

[P3-104]

14:00~15:30

[Poster] Study of Light Leakage by Photo Spacer Scratch in ADS Mode

Yuansheng Zang, Huizi LI, Yuanhui Guo, Kun Wang, Jian Tao, Gaofer Shi, Hongmin Li, Chun Wang, Xianjie Shao, Junsheng Chen, and Seungkyu Lee (BOE Optoelectronics Tech. Co., Ltd., China)

[P3-105]

14:00~15:30

[Poster] Negative Dispersion of Retardation in the Mixture of Rodlike and Discotic Nematic Liquid Crystals

Hyeokjin Kim, Jinyoung Jeong, Hojin Choi, and Ji-Hoon Lee (Chonbuk Nat'l Univ., Korea)

[P3-106]

14:00~15:30

[Poster] Increase of Flexoelectric Anisotropy of Nematic Liquid Crystal by Doping Bimesogen Molecules

Jimin Park, Jongyoon Kim, Jahyeon Koo, Kwang-Un Jeong, and Ji-Hoon Lee (Chonbuk Nat'l Univ., Korea)

[P3-107]

14:00~15:30

[Poster] Transmission Spectrum and Polymer Morphology of Polymer-Stabilized Cholesteric Liquid Crystal with Different Ratio of Mono- and Di-Acrylate Reactive Mesogen

Jongyoon Kim and Ji-Hoon Lee (Chonbuk Nat'l Univ., Korea)

[P3-108]

14:00~15:30

[Poster] Dual Wavelength In Situ Photoalignment of Azodye- and RM-Doped Nematic Liquid Crystals

Aboozar Nasrollahi, Vineet Kumar, Le Gia Trung, Myong-Hoon Lee, Shin-Woong Kang (Chonbuk Nat'l Univ., Korea), Ho Lim, Keun Chan Oh, and Jae Jin Lyu (Samsung Display Co., Ltd., Korea)

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14:00~15:30

[Poster] Orientation Control of Universal Liquid Crystal Materials through Simple Scratching Method and Their Electro-Optical Applications

Ahram Suh and Dong Ki Yoon (KAIST, Korea)

[P3-110]

14:00~15:30

[Poster] Study on Liquid Crystal for High Performance and Power-Saving Mode

Seung Jae Lee (Chonbuk Nat'l Univ., Korea), Min Su Kim (Johns Hopkins Univ., USA), Eo Jin Seo, and Seung Hee Lee (Chonbuk Nat'l Univ., Korea)

[P3-111]

14:00~15:30

[Poster] Fabrication of Liquid Crystals Control Platform Based on Soft-imprinting Method

Min Jeong Shin, Min-Jun Gim, and Dong Ki Yoon (KAIST, Korea)

[P3-112]

14:00~15:30

[Poster] Advanced Technology to Improve Sandy Mura for G8.6 Large-Size TFT-LCDs

Min Li, Yu Yao, Jeff Chou, James Hsu, Wade, and York (Chongqing HKC Optoelectronics Tech. Co., Ltd., China)

[P3-113]

14:00~15:30

[Poster] Dependence of Retardation Dispersion on UV Polarization during Polymerization of Single-Layer Negative Dispersion Retarder Film

Hojin Choi, Jinyoung Jeong, and Ji-Hoon Lee (Chonbuk Nat'l Univ., Korea)

[P3-114]

14:00~15:30

[Poster] Multi-Directional Wrinkling Patterns of Liquid Crystalline Polymer for Electro-Optic Device Applications

Jaehyun Sim, Sihwa Oh, Sooyoung Yeom, Kitae Kim, and Jun-Hee Na (Chungnam Nat'l Univ., Korea)

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14:00~15:30

[Poster] Polymerization-Induced Phase Separated Liquid Crystalline Haze Film

Jae-Hyun Bae and Suk-Won Choi (Kyung Hee Univ., Korea)

[P3-116]

14:00~15:30

[Poster] Circularly Polarized Luminescence from Self-Assembled Hierarchical Mesophase Composed of Bent-Core and Rodlike Molecules

Byeong-Cheon Kim and Suk-Won Choi (Kyung Hee Univ., Korea)

[P3-117]

14:00~15:30

[Poster] Photomodulating Chiroptic Behaviors in Hierarchical Mesophase from Mixture System Consisting of Achiral Bent-Core and Rod-Like Mesogens

Hyeon-Joon Choi and Suk-Won Choi (Kyung Hee Univ., Korea)

[P3-118]

14:00~15:30

[Poster] Dielectrophoresis in Nematic Medium Depending on the Cell Thickness

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

[P3-119]

14:00~15:30

[Poster] Dependence of Retardation Dispersion on UV-Polymerization Temperature in Host-Guest Reactive Mesogen Mixture

Jinyoung Jeong and Ji-Hoon Lee (Chonbuk Nat'l Univ., Korea)

[P3-120]

14:00~15:30

[Poster] Intense Pulsed Light Annealed Metal Layer with Metal Nanoparticle for Organic Photovoltaics

Soo-Jung Yim, Dong-uk Kim, and Jae-Woong Yu (Kyung Hee Univ., Korea)

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14:00~15:30

[Poster] Application and Performance of High Thermal Graphene Composite Film in CF OVEN Thermal Recovery Project

Baoku Zhang, Lei Zong, Chenhui Liu, Zehua Zou, Kang Xu, Yiwei Wang, Hongkai Geng, and Xiandong Xin (Hefei BOE Display Tech. Co., Ltd., China)

[P3-122]

14:00~15:30

[Poster] Fabrication of All-Solution-Processed Inverted Organic Solar Cells

Dong Jae Lee, Da Hyun Kim, and Moon Hee Kang (Keimyung Univ., Korea)

[P3-123]

14:00~15:30

[Poster] Microstructured Ion-Gel Film for Capacitive Pressure Sensors Array

Kang Lib Kim and Cheolmin Park (Yonsei Univ., Korea)

[P3-124]

14:00~15:30

[Poster] Synthesis and Characterization of Nickel Hydroxide Nanostructures Prepared by Chemical Bath Deposition

Moe Mikami, Yoshio Abe, Midori Kawamura, Takayuki Kiba, and Kyung Ho Kim (Kitami Inst. of Tech., Japan)

[P3-125]

14:00~15:30

[Poster] Effects of Zn Precursors on Structural and Morphological Properties of Zn-Al Layered Double Hydroxide

Sena Motoyama, Yoshio Abe, Midori Kawamura, Takayuki Kiba, and Kyung Ho Kim (Kitami Inst. of Tech., Japan)

[P3-126]

14:00~15:30

[Poster] Temperature Controlled Growth of Tin Sulfide Thin Films for Solar Cell Application

Pravin Pawar and Jaeyeong Heo (Chonnam Nat'l Univ., Korea)

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14:00~15:30

[Poster] One-Pot Gram-Scale, Eco-Friendly and Cost-Effective Synthesis of CuGaS₂/ZnS Nanocrystals as Efficient UV-Harvesting Down-Converter for Photovoltaics

Yun-Hyuk Ko, Mohammed Jalalah, Seung-Jae Lee, Ji-Eun Lee, Seo-Yun Kim, and Jea-Gun Park (Hanyang Univ., Korea)

[P3-128]

14:00~15:30

[Poster] Towards Defect-Free CH₃NH₃PbI₃ Films for High Performance Perovskite Solar Cells: An Effective Anti-Solvent Treatment Employing Hydrogen Iodide Additive

Yingguo Yang, Shanglei Feng (Chinese Academy of Sciences, China), Meng Li, Zhao-Kui Wang, Baoquan Sun (Soochow Univ., China), and Xingyu Gao (Chinese Academy of Sciences, China)

[P3-129]

14:00~15:30

[Poster] A Comparative Study of Various Poly(3,4-Ethylenedioxythiophene) Transparent Conductive Polymers Prepared on Flexible Substrates

Shotaro Tsuji, Yoshio Abe, Midori Kawamura, Takayuki Kiba, and Kyung Ho Kim (Kitami Inst. of Tech., Japan)

[P3-130]

14:00~15:30

[Poster] Achieving High Performance Solar Cells via 'Injecting' Organic Bulk Heterojunction into the Perovskite

Kehao Hu, Zhao-Kui Wang, and Liang-Sheng Liao (Soochow Univ., China)

[P3-131]

14:00~15:30

[Poster] Eliminating Toxic Process of N-Type Layer Fabrication in Amorphous Si Thin-Film Solar Cells by PFN Interfacial Layer Deposition

Min Seok Lee, Dae Keun Choi, Jun Hwan Cha, Hassan Hafeez, P. Justin Jesuraj, and Seung Yoon Ryu (Korea Univ., Korea)

[P3-132]

14:00~15:30

[Poster] High-Performance Soft Piezoelectric Nanogenerators via In-Situ Integration of P(VDF-TrFE) Thin Film and AgNW-Embedded Soft Platforms

Hyeon Cho, Byeongmoon Lee, and Yongtaek Hong (Seoul Nat'l Univ., Korea)

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14:00~15:30

[Poster] Control of Mouse Behavior via Flexible Light-Emitting Diodes on Motor Cortex

Seung Hyun Lee, Jung Ho Shin, Han Eol Lee, and Keon Jae Lee (KAIST, Korea)

[P3-134]

14:00~15:30

[Poster] Hybrid Alignment of Dye-Doped Chiral-Nematic Liquid Crystals

Sang-Hyeok Kim, Seung-Won Oh, and Tae-Hoon Yoon (Pusan Nat'l Univ., Korea)

[P3-135]

14:00~15:30

[Poster] Dye Doped Siloxane Coating Film for Camera Module Infrared Cut-Off Filter

Seung-Mo Kang, Yong Ho Kim, Young-Woo Lim, and Byeong-Soo Bae (KAIST, Korea)

[P3-136]

14:00~15:30

[Poster] Human Attachable Photobiomodulation Using Conformable Organic Light-Emitting Band-Aid with Improved Wound Healing Effect

Yongmin Jeon (KAIST, Korea), Hye-Ryung Choi (Seoul Nat'l Univ., Korea), Jeong Hyun Kwon (KAIST, Korea), Kyoung-Chan Park (Seoul Nat'l Univ., Korea), and Kyung Cheol Choi (KAIST, Korea)

[P3-137]

14:00~15:30

[Poster] Mirrored Image for Curved-Edge Seamless Display Application

Seunghwan Lee, Hyungsoo Yoon, Chanhjung Yoo, Boik Park, Dongyeon Kim, Eunho Oh, Byoungcho Lee, and Yongtaek Hong (Seoul Nat'l Univ., Korea)

[P3-138]

14:00~15:30

[Poster] Characterizing of Mechanical Properties for Flexible OLED Components

Junsu Park, Gisuk Kwon, Soom Jung, Younggil Park, and Nari Ahn (Samsung Display Co., Ltd., Korea)

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14:00~15:30

[Poster] Polarization Selective Etalon Color Filter Embedded with Plasmonic Nano Gratings

Yonghee Jung, Hyunseung Jung, and Hojin Lee (Soongsil Univ., Korea)

[P3-140]

14:00~15:30

[Poster] Extremely Efficient Solution-Processed Simplified Small-Molecule Organic Lightemitting Diodes with Low Efficiency Roll-Off

Young-Hoon Kim, Tae-Hee Han, and Tae-Woo Lee (Seoul Nat'l Univ., Korea)

[P3-141]

14:00~15:30

[Poster] In-Situ Fabrication of Polymer Light-Emitting Diodes on Surface-Modified Silicone Rubber for Applications in Soft Light-Emitting Devices

Sujin Jeong, Hyungsoo Yoon, Byeongmoon Lee, Changhee Lee, and Yongtaek Hong (Seoul Nat'l Univ., Korea)

[P3-142]

14:00~15:30

[Poster] A Compensation Circuit without Time Division Using Double-Gate-Structured Single-Walled Carbon Nanotube Thin Film Transistors

Hyunjun Yoo, Jewook Ha, Hyeonggyu Kim, Jiseok Seo, and Yongtaek Hong (Seoul Nat'l Univ., Korea)

[P3-143]

14:00~15:30

[Poster] Fabrication of Highly Reflective Thin-Film Mirrors on Surface-Modified Elastomer for Seamless Display Application

Hyungsoo Yoon, Seunghwan Lee, and Yongtaek Hong (Seoul Nat'l Univ., Korea)

[P3-144]

14:00~15:30

[Poster] Nickel-PDMS Based Soft Pressure Sensor with Suppressed Leakage Current

Jin kyun Park, Eunho Oh, Geonhee Kim, Byeongmoon Lee, and Yongtaek Hong (Seoul Nat'l Univ., Korea)