

**P2. Poster Session II**

**Friday, October 14, 2011 / 16:30 ~ 18:00**

- P2-1 Evaluation of Wearing Comfort of the 3D Glasses by EEG Measurement**  
*Ji Hye Baek, Dal-Young Kim (Seoul Tech, Korea), Jae-Ho Kim, Do Young Kim, and Yun-Joo Kim (LG Electronics Inc., Korea)*
- P2-2 Crosstalk Reduction of Film Pattered Retarder Stereoscopic Display Using Uniaxial Negative and Positive A Plates**  
*Chunyan Pan, Hongqing Cui, Xianzhu Tang, Te-Chen Chung, and T. S. Jen (Infovision Optoelectronics Co., Ltd., China)*
- P2-3 High-Quality Multi-View Generation for 3D Displays**  
*Kyu-young Hwang, Yang-ho Cho, Ho-young Lee, and Du-sik Park (Samsung Advanced Inst. of Tech., Korea)*
- P2-4 Techniques to Enhance the Sense of Depth Using Visual Perception Characteristics**  
*Ji Young Hong, Ho Young Lee, Du Sik Park, and Chang Yeong Kim (Samsung Advanced Inst. of Tech., Korea)*
- P2-5 High Resolution Fourier Hologram Generation Using Hexagonal Lens Array Based on Integral Imaging**  
*Ni Chen, Jiwoon Yeom (Seoul Nat'l Univ., Korea), Jae-Hyeung Park (Chungbuk Nat'l Univ., Korea), and ByoungHo Lee (Seoul Nat'l Univ., Korea)*
- P2-6 Multi-view Synthesis Based on Temporal Frame Integration and Background-Priority inpainting**  
*Yang-Ho Cho, Kyu-Young Hwang, Ho-Young Lee, and Du-Sik Park*

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**iMID** 2011

October 11-15, 2011 / KINTEX, Seoul, Korea

---

*(Samsung Advanced Inst. of Tech., Korea)*

**P2-7 A Novel LED Backlight System for 2D/3D Autostereoscopic Display**

*Tsai-Lin Tai, Hsin-Hsiang Lo, Tian-Yuan Chen, Kang-Cheng Fan, and Chun-Chuan Lin (ITRI, Taiwan)*

**P2-8 Genetic Characteristics of Visual Fatigue Caused by Stereoscopic Image**

*Jung-Hoon Lee and Jang-Kun Song (Sungkyunkwan Univ., Korea)*

**P2-9 Effect of Hour-long Stereoscopic Film on Equilibrium Function**

*Masumi Takada (Aichi Medical Univ., Japan), Kiichi Murakami, Yoshiki Kunida, Takayuki Hirata (Fukui Univ., Japan), Yasuyuki Matsuura (Nagoya Univ., Japan), Satoshi Iwase (Aichi Medical Univ., Japan), Masaru Miyao (Nagoya Univ., Japan), and Hiroki Takada (Fukui Univ., Japan)*

**P2-10 A New Flicker Evaluation Method for 3D Displays**

*Jin Yong Kim, Jang Ryang Kim, Won Rae Kim, and Hyuk Nyun Kim (LG Display Co., Ltd., Korea)*

**P2-11 Manufacturing and Align of Lenticular Lens for 3D Display**

*Ji-Min Heo, Sang-Hyeon Oh, Sung-Min Chae, Han-Jae Yoo, and Mee-Suk Jung (Korea Polytechnic Univ., Korea)*

**P2-12 Gate Signal effect on Panel Uniformity and Image Sticking**

*Jianlei Zhu, Peilin Zhang, Jae Geon You, and Jungyeal Lee (BOE Tech. Group Co., Ltd., China)*

**P2-13 Improvement of the Image Sticking in FFS-LCDs by Adopting Symmetric Voltage Tuning Method**

*Peilin Zhang, Xiaoling Xu, Jianlei Zhu, Jaegeon You ,and*

The 11th International Meeting on Information Display

**iMID 2011**

October 11-15, 2011 / KINTEX, Seoul, Korea

---

*Jungyeal Lee (BOE Tech. Group Co., Ltd., China)*

- P2-14 Analysis of TFT-LCD Compression Resistance Characteristics**  
*Liu Junguo, Li Rui, Ren Jian, Yu Hongju, Qiu Haijun, Min Tae Yup, Ryu Bong Yeol, Lee Seong Kyu (BOE Optoelectronics Tech. Co., Ltd., China)*
- P2-15 Study on Improving Contrast Ratio in FFS LCDs**  
*Xiaofeng Ma, Jiaoming Lu, Teruaki Suzuki, Jaegeon You, and Jungyeal Lee (BOE Tech. Group Co., Ltd., China)*
- P2-16 3 Dimensional Micro Structures Patterning Technology with Grey Scale Photolithography and Application into Various Patterns**  
*Kyoung-Han Nam, Han-Pil Kim, Young-Hoon Lee, Young-Don Yun, Jong-Il Kim, and Jae-Il Kim (Chungnam Techno Park, Korea)*
- P2-17 Programmable LCD Bias Increases the Flexibility of System Design and Reduces the System Cost**  
*Nicolas Guibourg and Byoung Suk Kim (Texas Instruments GmbH, Germany)*
- P2-18 LCD Backlight Profile and Compensation Optimization Methodologies and Simulator**  
*SangYeop Jeon, HeeDong Yoon, and JaeHee You (Hongik Univ., Korea)*
- P2-19 Stable and Low-Voltage Pentacene Thin-Film Transistors with Ultra-Thin Fluoropolymer Gate Dielectric Layer and Controlled Threshold Voltage**  
*Hanul Moon, Dongmo Im, and Seunghyup Yoo (KAIST, Korea)*
- P2-20 A Small CMOS Temperature Sensor with a Inaccuracy of  $\pm 0.6^\circ\text{C}$**

The 11th International Meeting on Information Display

**iMiD 2011**

October 11-15, 2011 / KINTEX, Seoul, Korea

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**From -20 °C ~80 °C**

*Tai-Soon Park and Sang-Gyu Park (Hanyang Univ., Korea)*

- P2-21 Fabrication of Nano-Scale and Large-Area Single-Crystal Silicon Structures by the Printing Method**  
*Jung Ho Park (Korea Univ., Korea), Jung-Hun Seo (Univ. of Wisconsin-Madison, USA), Tae-Yeon Oh, Seongpil Chang (Korea Univ., Korea), Zhenqiang Ma (Univ. of Wisconsin-Madison, USA), and Byeong-Kwon Ju (Korea Univ., Korea)*
- P2-22 Automatic Measurement of Response Time and OD Writing by Programmable Over Driving Tuning System**  
*Seung Won Jung, Jang Ryang Kim, and Hyuk Nyun Kim (LG Display Co., Ltd., Korea)*
- P2-23 Characterization of PEALD Prepared Zinc-tin-oxide Thin Films for Display Applications**  
*Woon-Seop Choi and Young Jin Kwack (Hoseo Univ., Korea)*
- P2-24 The CAD System of the Thin Film Electroluminescent Display**  
*Oksana Maksimova, Mikhail Samohvalov, and Denis Evsevichev (The Ulyanovsk State Technical Univ., Russia)*
- P2-25 Novel Process Technology Using Single Slit Mask for Fine Channel TFTs**  
*Ki-yong Kim, Sang-kee Kim (BOE Display Tech. Co., Ltd., China), Seung-jin Choi (BOE Tech. Group Co., Ltd., China), Jeong-hun Rhee, and Jai-wan Koh (BOE Display Tech. Co., Ltd., China)*
- P2-26 Study on Cu/Mo/GIZO Thin-Film Transistors Fabricated by a Novel Wet Etching Process**  
*Sang-Hyuk Lee, Bo-Hyun Seo, In-Sun Park (Korea Aerospace Univ., Korea), Joerg Winkler (PLANSEE SE, Austria), Jong Hyun Seo*

The 11th International Meeting on Information Display

**iMID 2011**

October 11-15, 2011 / KINTEX, Seoul, Korea

---

*(Korea Aerospace Univ., Korea)*

- P2-27 Plasma Damage Free Solution-Deposited IGZO Thin-Film Transistors for Applying Large Substrate Fabrication Process**  
*Chi Wan Kim, Kyung Min Kim, Chang Bum Park, Junghan Kim, Jong-Uk Bae, Chang-Dong Kim, Myungchul Jun and Yong Kee Hwang (LG Display Co., Ltd., Korea)*
- P2-28 Fabrication Method of Multi-focus Micro-lens for 3D Displays**  
*Kyung-Woo Park, Yong-Hun Kim, Ho Jun Lee, and Hak Rin Kim (Kyungpook Nat'l Univ., Korea)*
- P2-29 Optimal Methods to Improve Cell Gap Mura for TFT-LCD BS Products**  
*Xiongcan Zuo, Junhwan Lim, and Junrui Zhang (Chengdu BOE Optoelectronics Tech. Co., Ltd., China)*
- P2-30 Development of Simulation Models of 55-inch Four-edge LED Backlights for LCD TV Applications**  
*Su Seong Jeong and Jae-Hyeon Ko (Hallym Univ., Korea)*
- P2-31 Experimental and Simulation Study on the Optical Performances of Lenticular-Lens Optical films for LCD Backlights**  
*Jae Seok Seo and Jae-Hyeon Ko (Hallym Univ., Korea)*
- P2-32 Continuous Diffraction Grating Based on a Nematic Liquid Crystal with Semi-Radial Alignment for Display Applications**  
*Jiyeon Kim, Jun-Hee Na, and Sin-Doo Lee (Seoul Nat'l Univ., Korea)*
- P2-33 Investigation of the Enhancement in Electrical Properties Using Gallium, Indium and Hafnium Doped SnO<sub>2</sub> TFTs**  
*Sae Young Shin, Yeon Keon Moon, Woong Sun Kim, and Jong Wan Park (Hanyang Univ., Korea)*

The 11th International Meeting on Information Display

**iMID 2011**

October 11-15, 2011 / KINTEX, Seoul, Korea

---

- P2-34 Acoustic Mapping of a Light Guide Plate Adopted in Edge-lit Backlights for LCD Applications**  
*Jae Hyun Kim, Tae Hyun Kim, and Jae-Hyeon Ko (Hallym Univ., Korea)*
- P2-35 Synthesis and Characterization of Quaternary-Based Lyotropic Chromonic Liquid Crystal for Coatable Polarizer**  
*Hye-Jin Yang, Yun-Ju Bae, So-Ra Yoon, Kwnag-Un Jeong (Chonbuk Nat'l Univ., Korea), Seung-Han Shin (KITECH., Korea), and Myong-Hoon Lee (Chonbuk Nat'l Univ., Korea)*
- P2-36 Effect of Resin-Infiltration on Electrical Property of Printed Electrode for Non-Sintered Ceramics Film**  
*Young-Woo Kim, Kyoohee Woo, and Jooho Moon (Yonsei Univ., Korea)*
- P2-37 Low-Voltage-Driven and Low-Temperature Annealed Solution Processed Oxide Thin Film Transistors with a Solution Processed Hafnium Oxide Gate Insulator**  
*Christophe Avis, Yeon Gou Kim, and Jin Jang (Kyung Hee Univ., Korea)*
- P2-38 Effect of Optical Characteristics of Block Copolymers**  
*Sung Woo Lee and Dong Myung Shin (Hongik Univ., Korea)*
- P2-39 Fabrication of CNT-PET Film and Application to Touch Panel**  
*Seok Won Kim, Chul Park, Young Chul Jeong, Chang Seok Oh, Eun Hye Kim, Lee Soon Park (Kyungpook Nat'l Univ., Korea), and Hyo Jin Kim (Nano Convergence Practical Application Center, Korea)*
- P2-40 Low-temperature Solution-processed Al<sub>2</sub>O<sub>3</sub> Gate Dielectric for Indium-Zinc-Tin-Oxide Thin-Film Transistors**  
*Jae-Sang Heo (Chonbuk Nat'l Univ., Korea), Yong-Hoon Kim,*

The 11th International Meeting on Information Display

**iMID** 2011

October 11-15, 2011 / KINTEX, Seoul, Korea

---

*Kwang-Ho Kim, Min-Suk Oh (KETI, Korea), and Sung Kyu Park (Chonbuk Nat'l Univ., Korea)*

**P2-42 Synthesis and Physical Property of New Red Pigment for Color Filter Based on Anthraquinone Derivatives**

*Junghyo Park, Youngil Park, and Jongwook Park (The Catholic Univ. of Korea, Korea)*

**P2-43 Surface-mediated Inkjet Printing Process and Its Application for High Resolution Thin Film Transistor**

*Dai Geon Yoon and Byung Doo Chin (Dankook Univ., Korea)*

**P2-44 Structural Color Patterning of Magneto-chromatic Microspheres on the Patterned Magnet**

*Younghoon Song, Junhoi Kim, and Sunghoon Kwon (Seoul Nat'l Univ., Korea)*

**P2-45 The Mechanism of One Drop Filling Mura of Fringe-field Switching Model Thin Film Transistor Liquid Crystal Display**

*JunCai Ma, HaiBo Zhu, Ang Xiao, S. H. Song, Xu Chen, T. Y. Min, B. Y. Ryu, and S. K. Lee (BOE Optoelectronics Tech. Co., Ltd., China)*

**P2-46 Prevention of Light Leakage in IPS LCD by Using Buffer Films**

*Il Jeon, HyungJoon Koo, and MinSung Yoon (LG Display Co., Ltd., Korea)*

**P2-47 Solution Processed Zinc-tin-oxide Thin-films Transistor by Screen Printed Electrodes**

*Young-Jin Kwack, Jun Seok Lee, and Woon-Seop Choi (Hoseo Univ., Korea)*

**P2-48 Flexible and Transparent Organic Transistor Arrays with Highly Stable and Conductive Printed Polymer Electrodes**

The 11th International Meeting on Information Display

**iMID 2011**

October 11-15, 2011 / KINTEX, Seoul, Korea

---

*Yong-Hoon Kim, Chang-Yoon Lim, Jun-Ki Park (KETI, Korea), Sung Kyu Park (Chonbuk Nat'l Univ., Korea), and Jeong-In Han (Dongguk Univ., Korea)*

**P2-49 Improvement of Toner Type Display Characteristics by Surface Modified Particle**

*So Young Kwon, Eun Kyoung Kim, Si Yeol Yang, Seung Yong Jeong, Gyo jic Shin, Kyung Ho Choi, and Sangkug Lee (KITECH, Korea)*

**P2-50 Systematical Analysis of Stress Evolution in OLED Flexible Devices by Using Finite Element Simulations**

*Chang-Chun Lee, Yan-Shin Shih, Chun-Chieh Huang (Chung Yuan Christian Univ., Taiwan), Chia-Hao Tsai, Shu-Tang Yeh, and Kuang-Jung Chen (ITRI, Taiwan)*

**P2-51 Consideration of Polymer-Dielectric Molecular Weight for Off-State Current in Organic Field-Effect Transistors**

*Dongwook Kim, Jaehoon Park, Sungwoo Lee, and Jong Sun Choi (Hongik Univ., Korea)*

**P2-52 Improvement of Cell Uniformity in Flexible LCD Using Rollto-Roll Processing**

*Dae Jeong Yoon, Choong Ho Lee, So Young Kwon, Eun Kyoung Kim, Si Yeol Yang, Seung Yong Jeong, Gyo jic Shin, Sangkug Lee, and Kyung Ho Choi (KITECH, Korea)*

**P2-53 Electrical Aging Effects of Organic Thin-Film Transistors with Polystyrene Gate Insulator**

*Jeong Cheol Noh, Jaehoon Park, Dong Wook Kim, Sung Woo Lee, Do Hyung Lee, and Jong Sun Choi (Hongik Univ., Korea)*

**P2-54 High Performance TIPS-pentacene-backplane for Electrophoretic Display**



The 11th International Meeting on Information Display

**iMID** 2011

October 11-15, 2011 / KINTEX, Seoul, Korea

---

*Jung-Won Hwang, Gi-Seong Ryu, Jae Seon Kim, and Chung-Kun Song (Dong-A Univ., Korea)*

**P2-55 Performance Improvement of TIPS-pentacene TFTs by Controlling Grain Boundary Direction**

*Eung-Kwan Lee, Gi-Seong Ryu, Dong-Hoon Kim, and Chung-Kun Song (Dong-A Univ., Korea)*

**P2-56 Analysis of Blanket Swelling Problem in Reverse Off-Set Printing**

*Yoon-Jong Park, Ki-Seong Choi, Jong-Seung Park, and Chung-Kun Song (Dong-A Univ., Korea)*

**P2-57 New Approaches to Room Temperature Physical Vapor Deposition Process for High Quality Nano-Crystalline Transparent Conductive Oxide Thin Film on Plastic Substrates**

*JunYoung Lee, YouJong Lee, YunSung Jang, and MunPyo Hong (Korea Univ., Korea)*

**P2-58 Basic Operation Principles of Floating Metal Ball Actuator Mode with Matrix Array Structure for Novel Electronic-Paper Displays**

*Howon Yoon, Hyojoo Park (Korea Univ., Korea), Jongmo Lee, Byungseong Bae (Hoseo Univ., Korea), Junghun Lee, Kyunghee Choi, Byunguk Kim (Dongjin Semichem Co. Ltd., Korea), and MunPyo Hong (Korea Univ., Korea)*

**P2-59 The Variable Light Configuration of Lighting System**

*Chu-Hsun Lin, Chun-Chuan Lin, Hsin-Hsiang Lo, Tian-Yuan Chen, and Lung-Pin Chung (ITRI, Taiwan)*

**P2-60 Effect of Stochastic Sub-Wavelength Scale Structures on the Surface of Encapsulant Material of Light Emitting Diode**

*Ohyung Kwon, Moon-Seok Kim, Hyuk Kim, and Ki-Woong Whang (Seoul Nat'l Univ., Korea)*

- P2-61 Improvement in the Light Extraction Efficiency of OLED Using Sub-Wavelength Structure on the Glass Substrate**  
*Moon-Seok Kim, Ohyung Kwon, Hyuk Kim, and Ki-Woong Whang (Seoul Nat'l Univ., Korea)*
- P2-62 Efficient Light Emission from Flexible Organic Light-Emitting Diodes Having Poly(3,4-Ethylenedioxythiophene):Poly(Tyrene Sulfonate) Anodes**  
*Byoungchoo Park and Hong Goo Jeon (Kwangwoon Univ., Korea)*
- P2-63 Polarized White Electroluminescence from OLED with a Reflecting Polarizer and a Quarter Wave Plate Films**  
*Byoungchoo Park, Yoon Ho Huh (Kwangwoon Univ., Korea), and Young Baek Kim (KITECH, Korea)*
- P2-64 Improvement of Luminous Efficacy in Mercury-Free Fluorescent Lamp via a New Electrode Structure**  
*Byung Joo Oh, Ohyung Kwon, and Ki-woong Whang (Seoul Nat'l Univ., Korea)*
- P2-65 Management System for Full Color LED Lighting Using RGB and White LEDs**  
*Seonghee Park, Insu Kim, and Taegyung Kang (ETRI, Korea)*
- P2-66 Parametric Study for the Discharge Characteristics in AC Plasma Display Panels with a Two-Dimensional Fluid Simulation**  
*Seung Bo Shim, Hyo won Bae, Jung Yeol Lee, Ho-Jun Lee, and Hae June Lee (Pusan Nat'l Univ., Korea)*
- P2-67 Discharge Characteristics of an AC Plasma Display Panel Controlled by Wall Charge Distribution with the Variation of Electrode Angle**

The 11th International Meeting on Information Display

**iMID 2011**

October 11-15, 2011 / KINTEX, Seoul, Korea

---

*Seung Bo Shim, Hyo won Bae, Jung Yeol Lee, Ho-Jun Lee, and Hae June Lee (Pusan Nat'l Univ., Korea)*

**P2-68 Address Discharge Characteristics of AC PDP with High Gamma Cathode Material**

*Hee-Woon Cheong, Tae-Ho Lee, Ohyung Kwon, Min-Soo Yoon, and Ki-Woong Whang (Seoul Nat'l Univ., Korea)*

**P2-69 Effects of Powder Size on the Discharge Characteristics of Plasma Display Panel Coated with MgO Crystal Powders**

*Se-Hun Park, Sung-Suk Wi, Dong-Hyun Kim, Hae June Lee, and Ho-Jun Lee (Pusan Nat'l Univ., Korea)*

**P2-70 Control of  $\text{NaAlSiO}_4:\text{Eu}^{2+}$  Photoluminescence Properties by Charge-Compensated Element Substitution**

*Jihae Kim, Hideki Kato, and Masato Kakihana (Tohoku Univ., Japan)*

**P2-71 Synthesis of an Oxynitride-Based Green Phosphor  $\text{Ba}_3\text{Si}_6\text{O}_{12}\text{N}_2:\text{Eu}^{2+}$  via an Aqueous Solution Process Using a Novel Water-Soluble Si Compound**

*Chihiro Yasushita, Hideki Kato, and Masato Kakihana (Tohoku Univ., Japan)*

**P2-72 Synthesis of New (Calcium, Strontium, Europium) Thiosilicate Phosphors and Their Luminescent Properties**

*Masayoshi Nakamura, Yuji Takatsuka, Hideki Kato, and Masato Kakihana (Tohoku Univ., Japan)*

**P2-73 Photoluminescence of Nonstoichiometric Ga-substituted YAG:Ce Phosphor under VUV Excitation**

*Mihye Wu, Sungho Choi, and Ha-kyun Jung (KRICT, Korea)*

The 11th International Meeting on Information Display

**iMiD 2011**

October 11-15, 2011 / KINTEX, Seoul, Korea

---

- P2-74 Fabrication of Transparent  $\text{YVO}_4:\text{Eu}^{3+}$  Luminescent Layer for Transparent PDPs Application**  
*Jung-Hyun Seo, Sungho Choi, Sahn Nahm (KRICT, Korea), and Ha-Kyun Jung (Korea Univ., Korea)*
- P2-75 ZnCdSe Quantum Dot-Based Light-Emitting Diodes Using Electron Transport Layer of ZnO Quantum Dots**  
*Hee-Jeong Kim, Woo-Seuk Song, and Heesun Yang (Hongik Univ., Korea)*
- P2-76 Laser Image Projection by Electroholography**  
*Michal Makowski, Andrzej Siemion, Izabela Ducin, Karol Kakarenko, Maciej Sypek, and Andrzej Kolodziejczyk (Warsaw Univ. of Tech., Poland)*
- P2-77 Characteristics of LCoS Microdisplay Using Polymer Dispersed Liquid Crystal for Mobile Projectors**  
*Kee-Jeong Yang, Gwang-Jun Lee, Seong-Kyu Song, Jung-Hye Kim and Byeong-Dae Choi (DGIST, Korea)*
- P2-78 LCD-Based Panels Implementing Signal Detecting Function into Touch Panel**  
*Lung-Yuan Chung, Chi-Hwa Cheng, Po-Chuan Pan, and Horng-Show Koo (Minghsin Univ. of Science and Tech., Taiwan)*
- P2-79 Novel Fabrication Technology of Film Patterned Retarder for 3D Display**  
*Chang Woo Woo, Sang Hoon Oh, Surjya Sarathi Bhattacharyya, Myong-Hoon Lee, Kwang-Un Jeong, Shin-Woong Kang, and Seung Hee Lee (Chonbuk Nat'l Univ., Korea)*
- P2-80 Measurement of Characteristics for Autostereoscopic 3D Display**

The 11th International Meeting on Information Display

**iMID** 2011

October 11-15, 2011 / KINTEX, Seoul, Korea

---

*Dae-Kuk Kim, Min-Gi Kwak, and Young-Seok Kim (KETI, Korea)*

- P2-81 Solid Phase Crystallization of P-type Amorphous Silicon**  
*Haifeng Jin, Beom Jun Kim, Chang Min Keum, Seung Jae Moon (Hoseo Univ., Korea), Takashi Noguchi (Univ. of the Ryukyus, Japan) and Byung Seong Bae (Hoseo Univ., Korea)*
- P2-82 Invisible Symbol Display Using Infrared LED Display for Communication of Mobile Robots at First Contact**  
*Kazuhiro Fujimoto and Kunio Sakamoto (Konan Univ., Japan)*
- P2-83 Effect of CaCO<sub>3</sub> on PS-b-P2VP Film with Reactive Monomer**  
*H. J. Kim (Hongik Univ., Korea), M. H. Yi (KRICT, Korea), and D. M. Shin (Hongik Univ., Korea)*
- P2-84 Driving Waveform with Short Sustain Pulse for Improvement of Luminance and Luminous Efficacy in AC PDPs**  
*Deok-Myeong Kim and Jeong-Hyun Seo (Univ. of Incheon, Korea)*
- P2-85 Characteristic of Organic Solar Cells Using the Electron Transport Material as Water-Soluble Conjugated Polymer**  
*Seong-Hwan Choi, Hee-Dae Kim, Chung-Gi Kim, Min-Sik Koo, Dong-Hun Lee, Jhin-Yeong Yoon, Taek Ahn, Tae-Woo Kwon, and Dong-Kyu Park (Kyungsung Univ., Korea)*
- P2-86 Analyzing the Characteristics of the Photo Sensor Signal Transferring on In-cell Type Touch Panel**  
*Lung-Yuan Chung, Cheng-Ching Kuo, Chi-Hwa Cheng, Po-Chuan Pan, Horng-Show Koo, Huan-Sheng Zeng, and Xing-Yang Liu (Minghsin Univ. of Science and Tech., Taiwan)*