

# iMiD 2020

The 20th International Meeting on Information Display  
August 25 - 28, 2020 / Online Conference

**Topic Title:** 13. LC Technology and Electro-Optic Materials

**Session Title:** 04. Poster Session 13

[04\_13\_1162]

## Moving Image Quality Analysis of Liquid Crystal Display based on Human Perception

Zhenping Xia, Yu Song, Cheng Cheng, and Fuyuan Hu (Suzhou Univ. of Science and Tech., China)

[04\_13\_1207]

## A Transparent Screen based on Polymer Network Liquid Crystal

Zhiqing Shi, Zhengyu Feng, Surgaltu Borjigin, Limei Zeng, Pojen Chiang, Dongze Li, Tsunglung Chang, Shujih Chen, Chiayu Lee, and Xin Zhang (CSOT Co., Ltd., China)

[04\_13\_1342]

## Modeling of Frequency Tunable Patch Antenna for Minimal Liquid Crystal

Dowon Kim, Kitae Kim, Hogyong Kim, Moonyoung Choi, and Jun-Hee Na (Chungnam Nat'l Univ., Korea)

[04\_13\_1344]

## High Definition Pixelated Wrinkles based on Liquid Crystalline Polymer

Kitae Kim, Dowon Kim, Hogyong Kim, Moonyoung Choi, and Jun-Hee Na (Chungnam Nat'l Univ., Korea)

[04\_13\_1373]

## Doping-Dedoping Interplay for Fine Patterning/Stacking of All-Polymer Optoelectronic Devices

Juhee Kim and Dae Sung Chung (POSTECH, Korea)

[04\_13\_1446]

**Enhanced Electro-Optical Properties of Polymer Encapsulated Isotropic Liquid Crystal Droplets by PEDOT:PSS Polymer**

Jun Hyeok Lee, Srinivas Pagidi, Tae Hyung Kim, Gwan Yong Lee, Young Jin Lim, and Seung Hee Lee (Jeonbuk Nat'l Univ., Korea)

[04\_13\_1447]

**Hysteresis-Free Electrically Tunable Photonic Band Gap Structure in Single Crystal Blue Phases**

Hong Gwon Lee, Hyoung Soo Park, Ramesh manda, and Seung Hee Lee (Jeonbuk Nat'l Univ., Korea)

[04\_13\_1456]

**Electro-Optical Property of Multi-Layered Carbon Nanotubes Polarizer for Photoalignment of Liquid Crystals**

Yuri Won, Mira Jo, Hoon Sub Shin, Young Jin Lim, and Seung Hee Lee (Jeonbuk Nat'l Univ., Korea)

[04\_13\_1473]

**Measuring the Effects of Aging in Liquid Crystal Displays**

Kevin Kam, Tiantong Yu, and Ioannis Kymissis (Columbia Univ., USA)

[04\_13\_1582]

**Electrochemical Analysis of Optical Performance Degradation in an Ion-Doped Liquid Crystal Cell under Long-Term Operation**

Ho-Jin Sohn, Jeong-Ho Seo, Jae-Won Huh (Pusan Nat'l Univ., Korea), Eunjung Lim (LG Chem Ltd., Korea), and Tae-Hoon Yoon (Pusan Nat'l Univ., Korea)

[04\_13\_1605]

**Estimation of Beads Distribution Inside an Electroactive Photonic Crystal System**

Sungeun Park, Jinyoung Choi, and Wooksung Kim (POSTECH, Korea)

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[04\_13\_1632]

**Synthesis of Functional Coating Materials for Electronic Devices based on Fluorinated Siloxane/Polysilazane and their Surface Properties**

Jeong Ju Baek, Sung Man Park, Gwang Sik Song, Young Hun Kim, Yeong Rang Kim, Ki Cheol Chang, Youn Jung Heo, Kyung Ho Choi, and Gyo Jic Shin (KITECH, Korea)

[04\_13\_1639]

**Aggregation and Ordering Behavior of Lyotropic Chromonic Liquid Crystals on Polyimide Alignment Layer**

Hyeong Wook Kim, Sang Hee Won (Korea Univ., Korea), Valery Kuzmin (Light Polymers Inc., USA), Bo Sung Kim (Korea Univ., Korea), and Sung Tae Shin (Korea Univ., Korea and Light Polymers Inc., USA)

[04\_13\_1646]

**Birefringence Sign Conversion in Mixture of Rodlike and Cross-Shaped Reactive Molecules**

Jiyeon Kim and Ji-Hoon Lee (Jeonbuk Nat'l Univ., Korea)

[04\_13\_1647]

**Viewing Angle Dependence of Liquid Crystal Display on the  $R_{th}$  of the Substrate Film**

Sumin Ahn and Ji-Hoon Lee (Jeonbuk Nat'l Univ., Korea)

[04\_13\_2011]

**Fork Pattern Grating Film That Generates Multiple Orbital Angular Momentum Beam for Decoding/Demultiplexing**

Jiseon Yang, Doyeon Lee, and Jang-kun Song (Sungkyunkwan Univ., Korea)

[04\_13\_2012]

**Study on The Low Reflectivity of Display Module**

Huizhong Zhu, Shenglin Sun, and Junguo Liu (BOE, China)