

Oral Presentation

[LCT1]Evaluation Techniques

Chair: Masaru Inoue (Toyo Tech. LLC)

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Wed. Nov 27, 2019 1:40 PM - 3:00 PM Room 107 (1F)

1:40 PM - 2:00 PM

[LCT1-1]DC Image Sticking in Liquid Crystal Displays Caused by Polyimide Anion Radicals

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Keywords: Imide anion radical, DC image sticking, LCD reliability

We investigated the anion radical effect from aromatic imide groups in polyimide alignment layers of liquid crystal cells by means of electron spin resonance and absorption measurements. We found anion radicals generated by ultra-violet or blue light irradiation shows a clear correlation to DC image sticking.