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Progress in OLED Display Technology

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After several decades of intensive research and development worldwide, organic light emitting diode (OLED) has emerged as a key display technology and increasingly OLED displays have gained market shares from liquid crystal displays (LCD) in consumer products ranging from handheld cellular phones to large-area televisions. In competition with LCD for display applications, OLED has the intrinsic advantage as a fast addressable self-emitter capable of producing vivid colors and nearly perfect black levels without view-angle degradation and motion blurs – key characteristics that have so far eluded LCD displays. More recently OLED displays based on plastic substrates are being adopted in “wearables” such as smartwatches because of their flexible form factor. In this talk, I will give an overview of OLED technology and discuss what it would take for OLED to be the next-generation display technology.

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