



Jwo-Huei Jou

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Biography

Jwo-Huei Jou is a professor of the Department of Materials Science & Engineering in National Tsinghua University, Taiwan, and the president of the Chinese Organic Electronics Association. He received his Ph. D in Macromolecular Science and Engineering Program from University of Michigan in 1986. He joined IBM-Almaden Research Center USA as a Visiting Scientist from 1986-88. Jwo-Huei Jou has his expertise in high-efficiency organic light emitting diodes (OLEDs), polymer, thin film stress, and expert system applications. He is a pioneer of the natural light-style OLEDs, and has received a prestigious "The IDA lighting design award" from the International Dark-Sky Association, USA for his "candle light-style OLED" invention.

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HUMAN AND ECOLOGICALLY FRIENDLY CANDLELIGHT OLED

Blue light enriched white light imposes threat to human health and ecosystems. Specifically, extensive use of electric light at night (LAN) might cause sleep disorder, obesity, diabetes, cardiovascular diseases, and cancers of breast and prostate. We will demonstrate that blue light hazards can be minimized by the use of candlelight OLED, which is much safer from retina protection perspective and better from melatonin generation perspective. Importantly, the human friendly blue light-less OLED is also found to attract much lesser insects after dusk. Lighting Renaissance is likely to take place and lighting history to be written with such an innovative lighting measure.

