

## The Device Analysis of QLED toward Industrialization



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Beijing Institute of Technology

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Hosted by: Prof. Shuang-Peng WANG

### Abstract

With the rapid improvements of external quantum efficiency and operating lifetimes in QLED's research, it approaches to the gate of industrialization for flat display applications. As one of the most important challenges, the operational stability of QLED limited the industrial applications of OLEDs. In the past few years, we have tried to investigate the operation of QLEDs. In this talk, I will introduce recent progress of the methodology, models and material characterization for device analysis. I hope the talk can inspire more efforts to promote the device analysis of QLEDs.

### Biography

Prof. Hai-Zheng ZHONG is a Professor of photonic materials in the school of materials science and Engineering at Beijing Institute of Technology (BIT). He obtained his B.E. degree in 2003 from Jilin University, and then undertook his Ph.D. studies at the Institute of Chemistry, Chinese Academy of Sciences (ICCAS) from 2003 to 2008. After that, he worked as a postdoc in the University of Toronto during 2008–2010. He joined School of Materials Science & Engineering at Beijing Institute of Technology (BIT) as an Associate Professor in 2010 and was promoted to Full Professor in 2013. His current research interests are in the area of colloidal quantum dots for photonics and optoelectronics. His recent awards include the National Science Foundation for Excellent Young Scholars (2017), Beijing Science and Technology Award (2018, 2/10), 2019 IDW best paper award. Since 2019, he serves as senior editor for Journal of Physical Chemistry Letters, and moved to executive editor in 2020.