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Strategies to avoid DPEPO in deep blue OLEDs

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Although supporting high OLED efficiencies, the continued use of electrically unstable Bis[2-(diphenylphosphino)phenyl]ether oxide (DPEPO) in deep blue TADF OLEDs fundamentally limits device operational lifetime. Despite global research efforts, no suitable alternative hosts with high triplet energy and adequate charge transport properties have been identified. In this talk I will outline recent work that has revealed fundamental measurement challenges in characterising new host materials. As well as examining potential alternatives such as PPT and PPF, alternate approaches such as TTA, exciplex, or hyperfluorescent hosts will be examined.

主催:九州大学 最先端有機光エレクトロニクス研究センター
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