



第229回 OPERA研究交流セミナー

第220回 ISIT有機光エレクトロニクス研究特別室セミナー

第287回 未来化学創造センターセミナー



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Organic long-persistence luminescence: Influencing Factors and an intrinsic evaluation parameter

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Long-persistent luminescence (LPL), due to its ability to emit light for a long time without an external power source, is widely used in many areas, such as night indicators, safety signage, and in vivo bioimaging. In recent years, organic LPL (OLPL) materials have attracted widespread interest due to their lack of heavy metal elements, the design flexibility of their chemical structure, and the non-stringent processing conditions. However, many influencing factors of OLPL performance remain unclear, with a notable absence of quantifiable mechanistic models, impeding the innovation in OLPL materials and hindering the advancement of its applications. During my three years at Kabe Unit of OIST, I conducted in-depth research on these issues. In this presentation, I will primarily discuss my relevant research findings and briefly introduce the research project I am undertaking under Prof. Bin Liu at NUS.

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