Synthesis of Multi-chromophore Emitters for Blue Organic Light Emitting Diodes

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We describe two blue emission materials based on a new type of mulit-chromophore concept. TADAP, TAPDAP were synthesized through boronylation and Suzuki coupling reactions. One of multi-chromophore system derivatives, TADAP, exhibited an PLmax value of 421nm and The other material TAPDAP exhibited an PLmax 433nm in Solution. The multi-chromophore materials had narrower PL in solution But broad PL spectra in Film and better thermal properties than the single core chromophore materials.