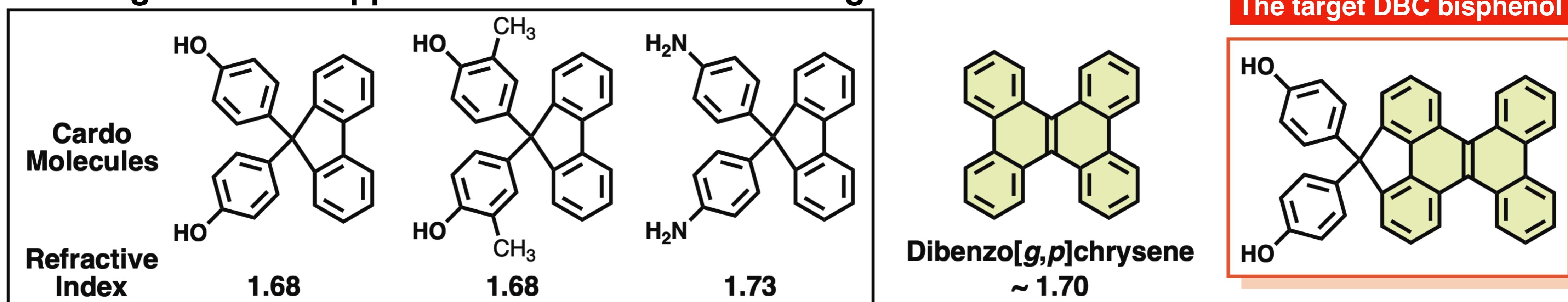
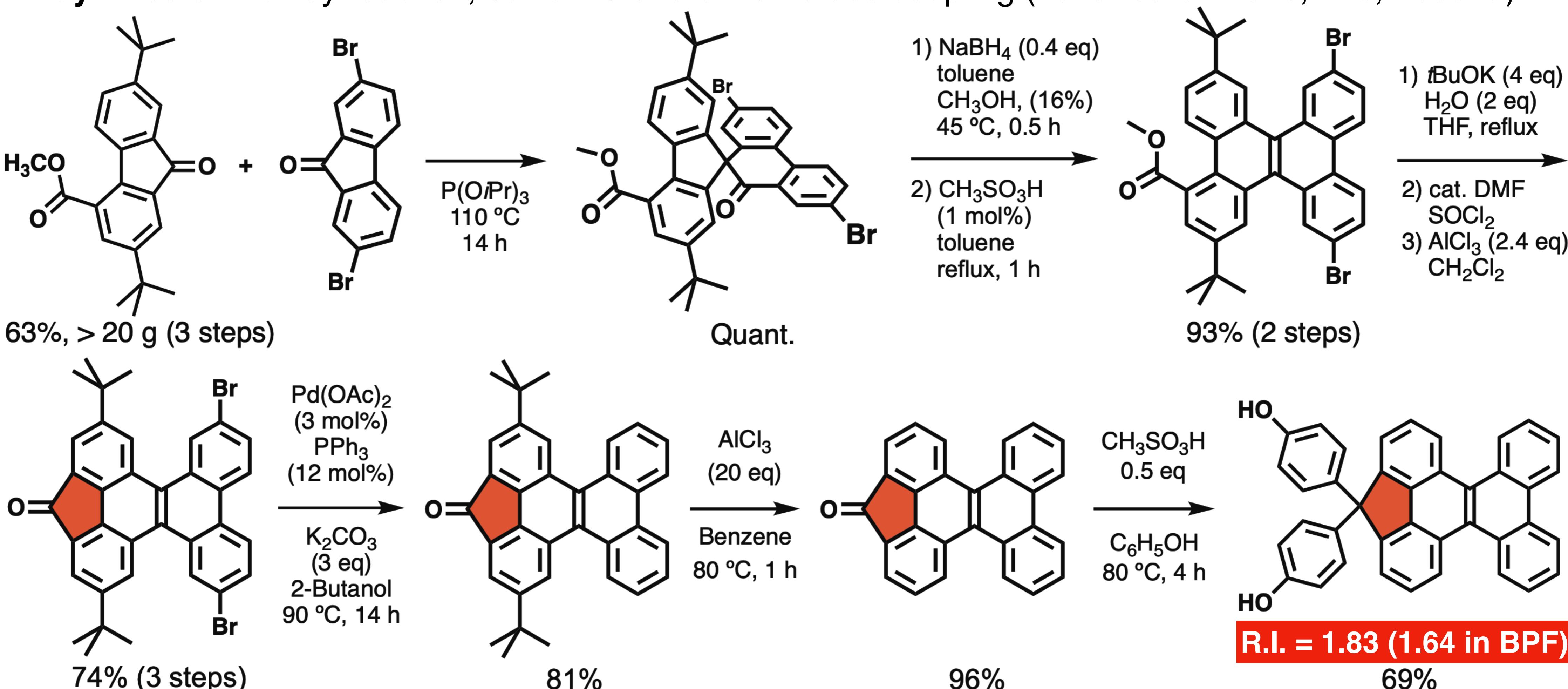




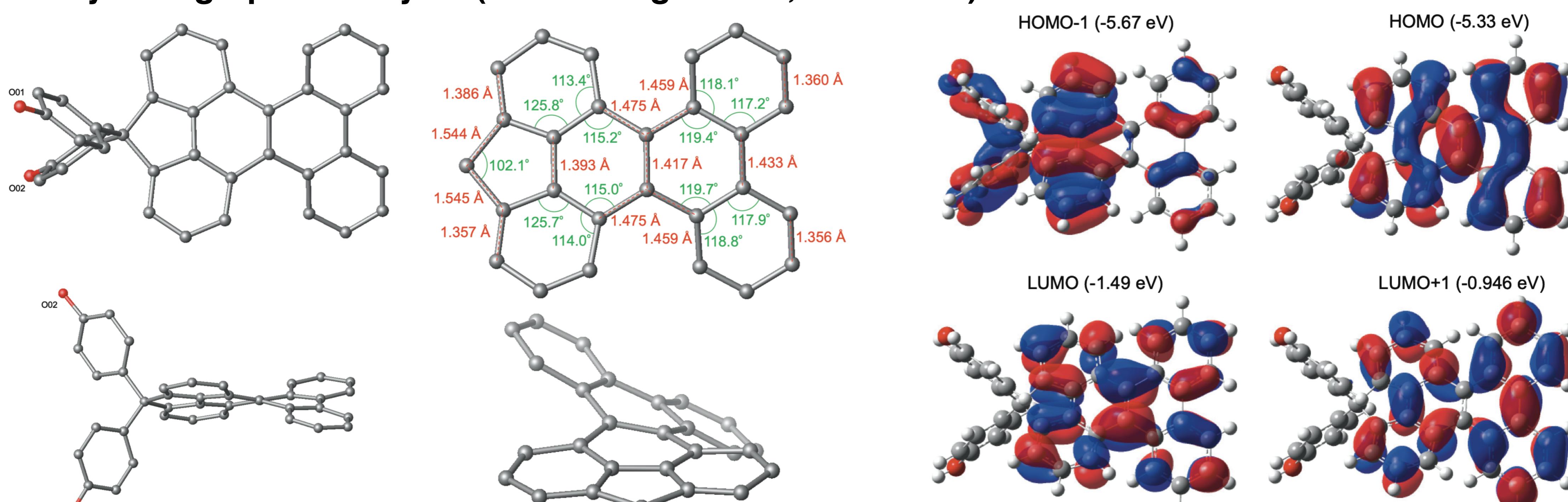
1. Background and Approach to Our Molecular Design



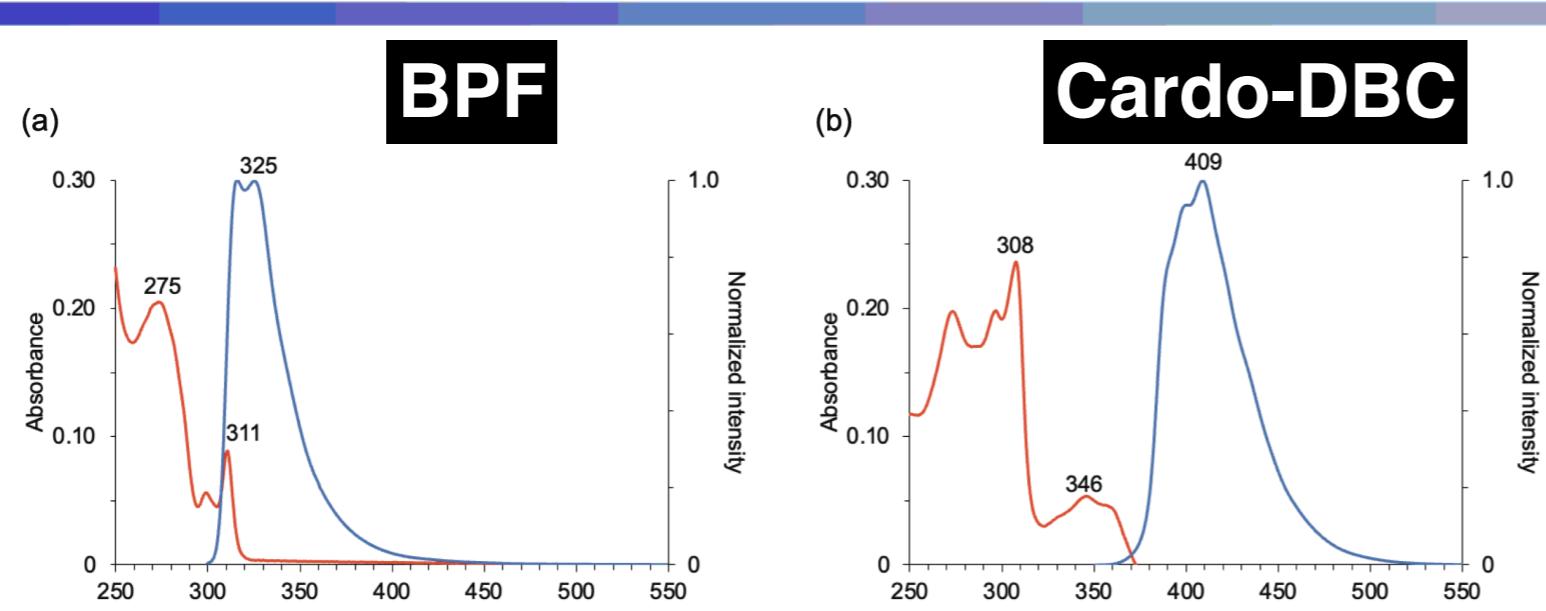
2. Synthesis: the key reaction, solvent-alone-driven cross-coupling (*Tetrahedron* 2023, 143, 133549)



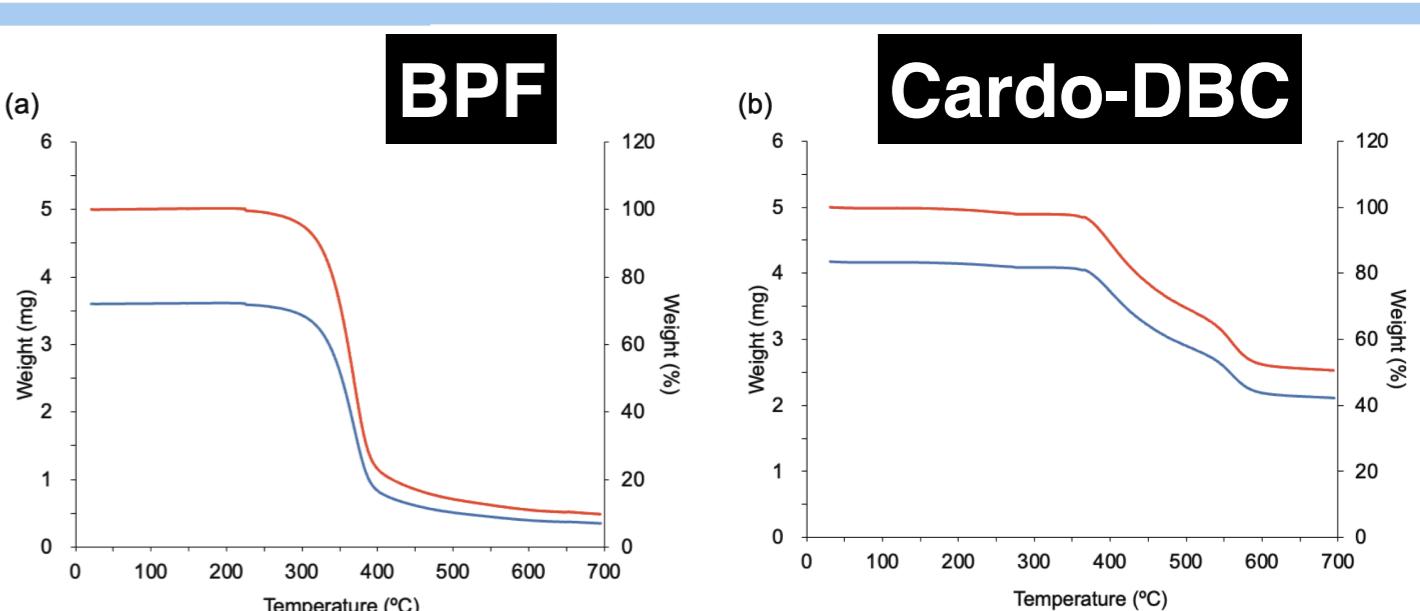
3. Crystallographic Analysis (torsion angle 32.1°, DBC 35.6°) and DFT calculation



4. Absorption and emission



5. TGA graph (10 °C/min) for T_{d5}



| Compound | $\lambda_{\text{abs, max}}$ | $\lambda_{\text{ems, max}}$ | PLQY [%] | Melting point [°C] | T_{d5} [°C] | Refractive Index (Na-D line, 589 nm at 298 K) |
|-----------|-----------------------------|-----------------------------|----------|--------------------|---------------|--|
| BPF (TCI) | 275 | 325 | 19.9 | 224 - 226 [a] | 302 | 1.64 [a] |
| 1 | 308 | 409 | 7.3 | > 350 | 378 | 1.83 |

[a] The website of OGC, a prominent supplier, refers to the refractive index of 1.68 and melting point of 223-224 °C, see: <https://www.ogc.co.jp/products/fluorene/monomer.html>.