

Supporting information

Figure S1: weak interlayer interaction in TwBLGDY when twist angle increases from 0° to 55° .



Figure S2: Molecular surface electrostatic potential of TwBLGDY as twist angle increases from 0° to 55° .



Figure S3: HOMO-LUMO molecular orbitals of TwBLGDY at different twist angles.



Figure S4: The OPA spectrum of TwBLGDY when the twist angle increases from 0° to 55°. The right vertical axis is the oscillator strength.



Figure S5: TPA spectrum of TwBLGDY as the twist angle increases from 0° to 55° . The right ordinate is the TPA cross-section.



Figure. S6: ECD spectrum of TwBLGDY when twist angle increases from 0° to 55° , and the right ordinate is rotatory strength.