

Novel A-(π -D- π -A)₁₋₃ branched fluorophores displaying high two-photon absorption

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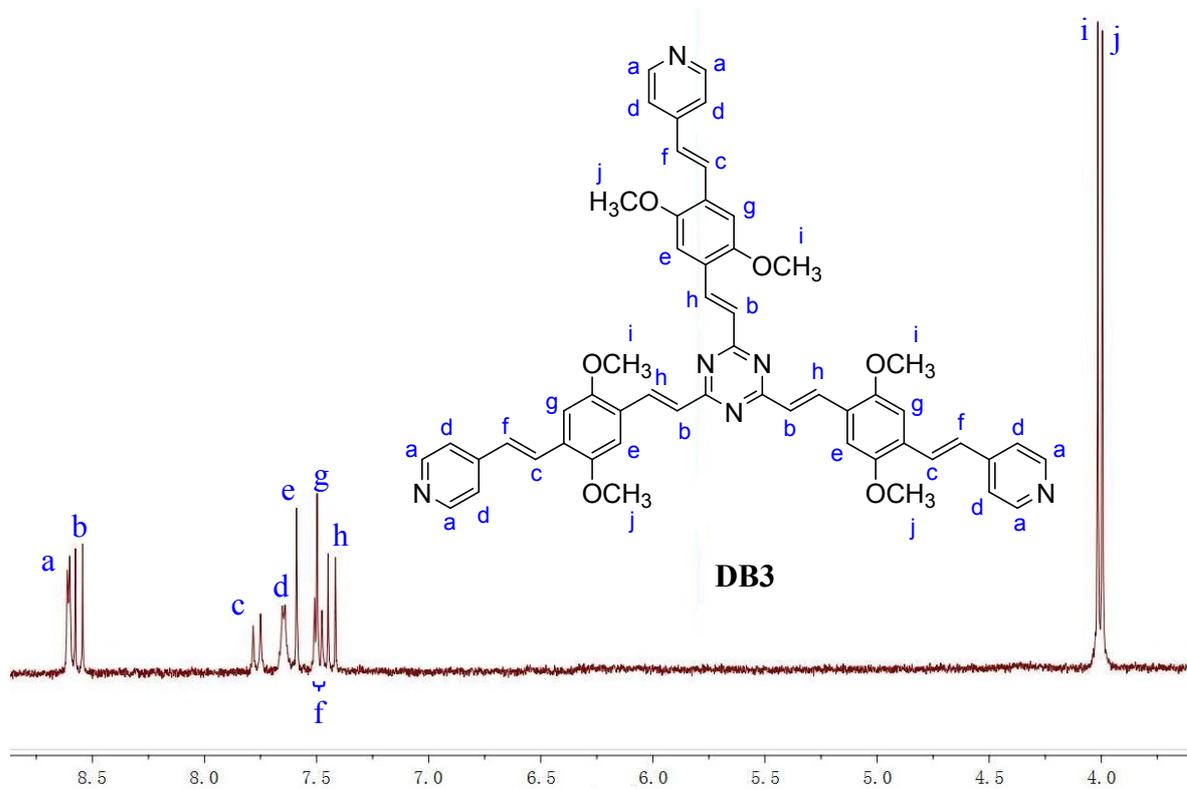
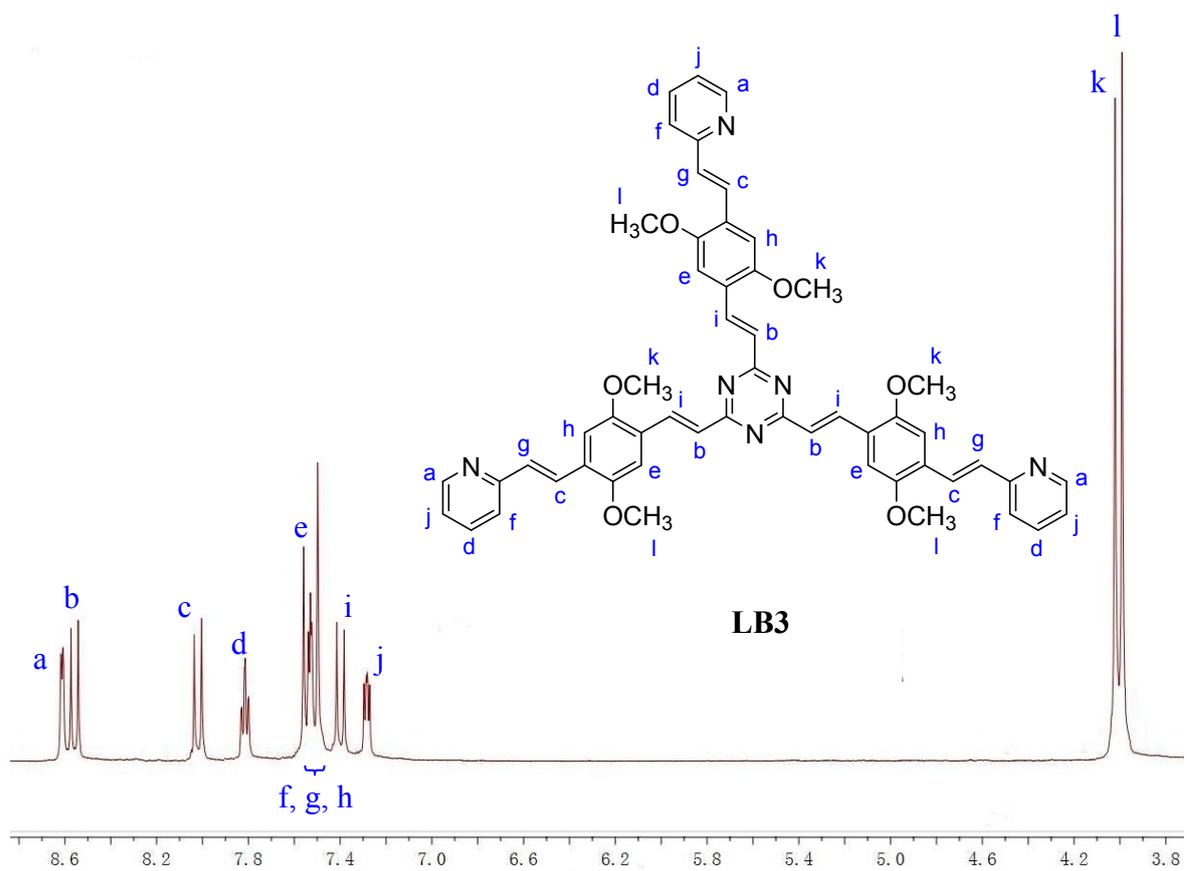


Figure S1. ^1H NMR spectra of **LB3** and **DB3** in $\text{DMSO-}d_6$.

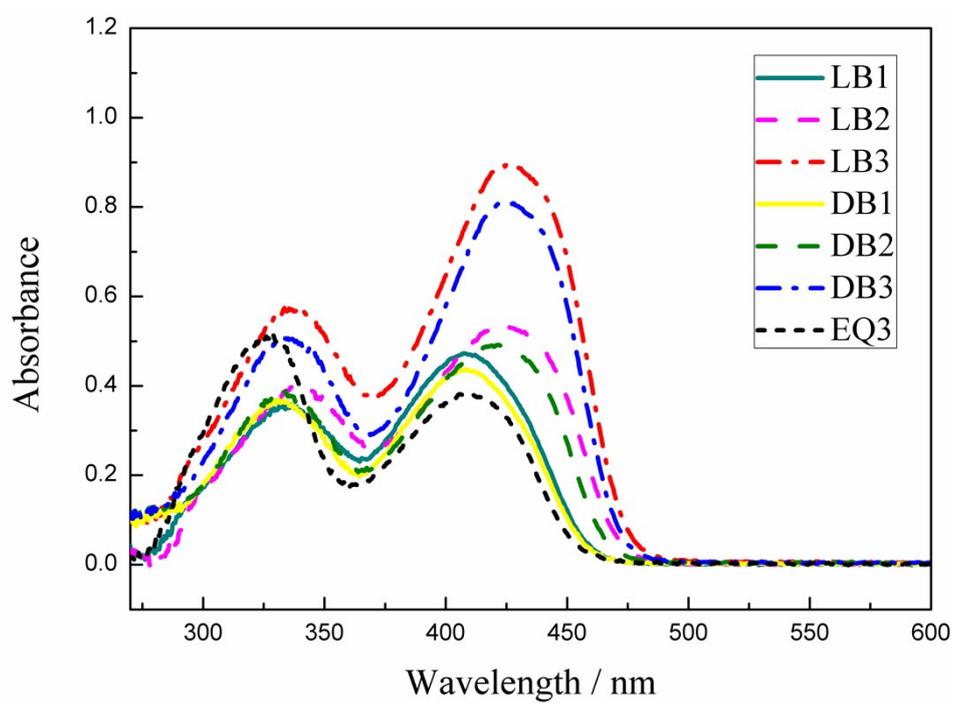
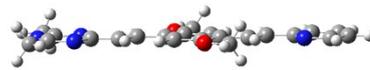
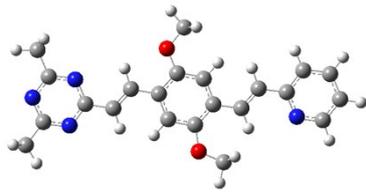


Figure S2. UV-visible absorption spectra of the target compounds (**LB1-LB3**, **DB1-DB3**, **EQ3**) in THF ($c = 1 \times 10^{-5} \text{ mol L}^{-1}$)

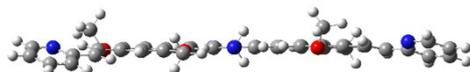
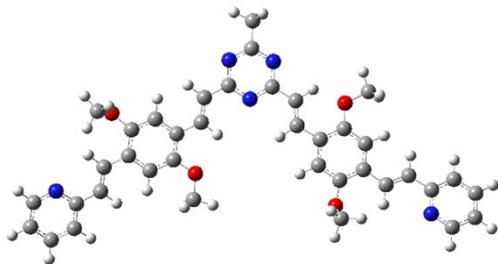
top view

front view

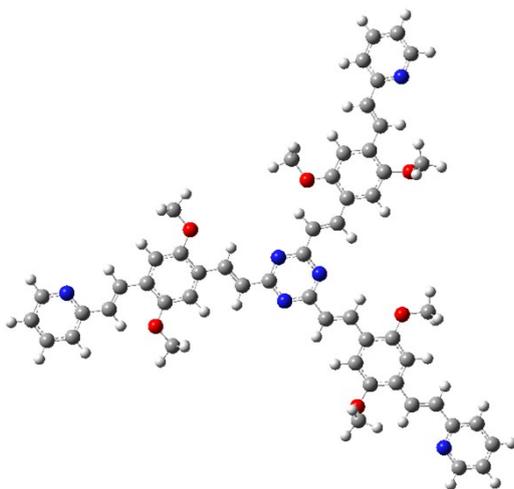
LB1



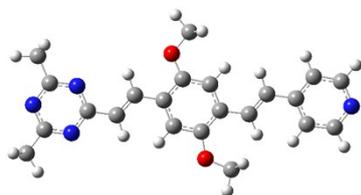
LB2



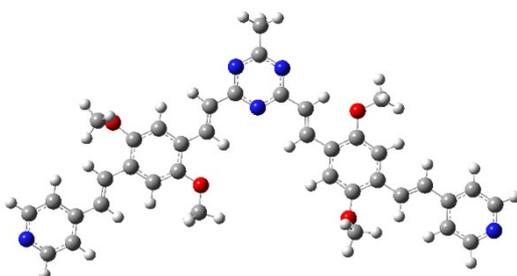
LB3



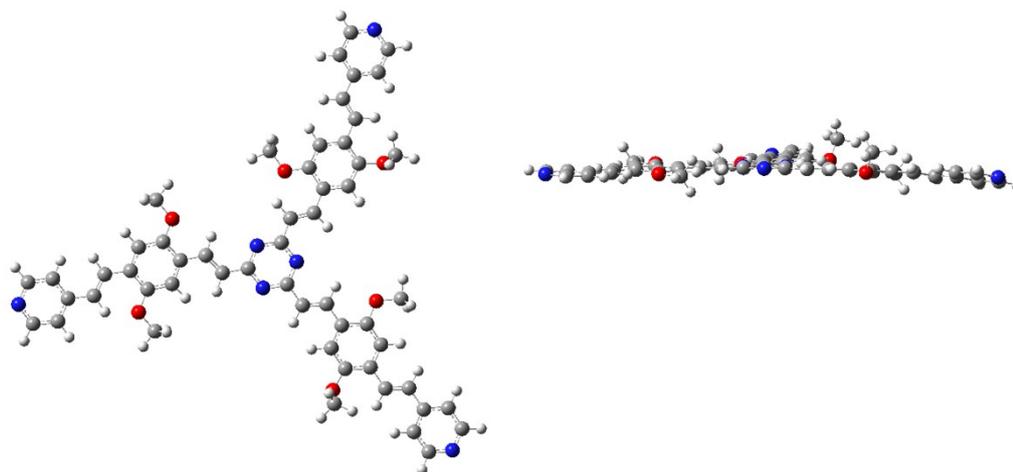
DB1



DB2



DB3



EQ3

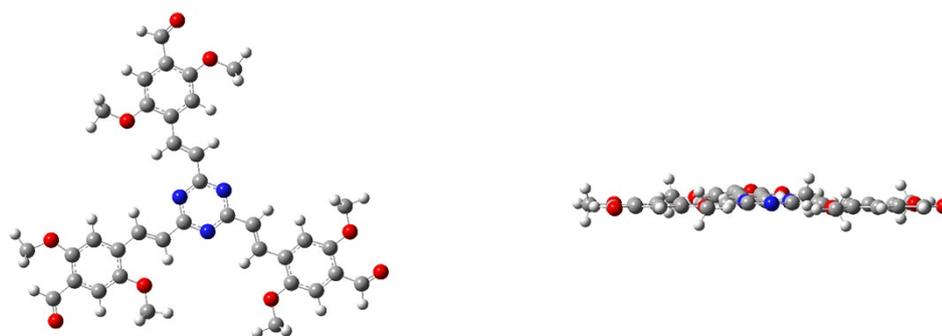
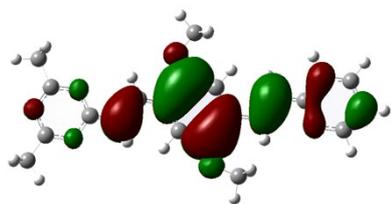


Figure S3. Optimized geometries of the target compounds (**LB1-LB3**, **DB1-DB3**, **EQ3**)

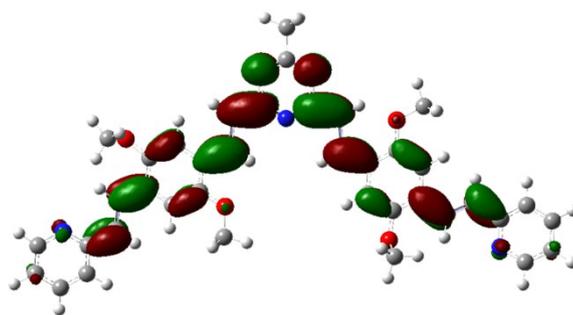
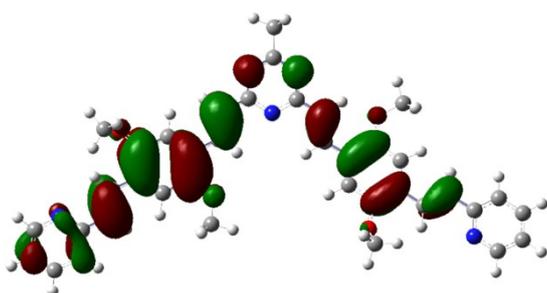
HOMO

LUMO

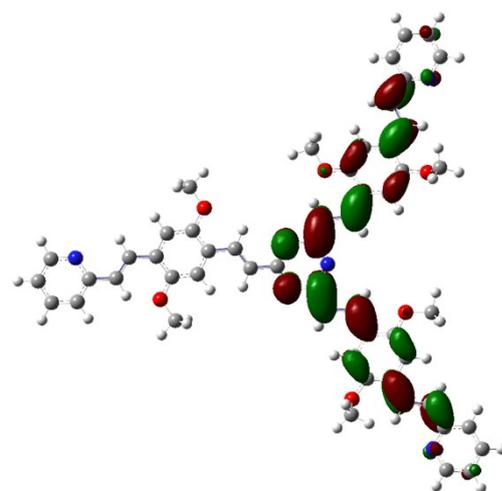
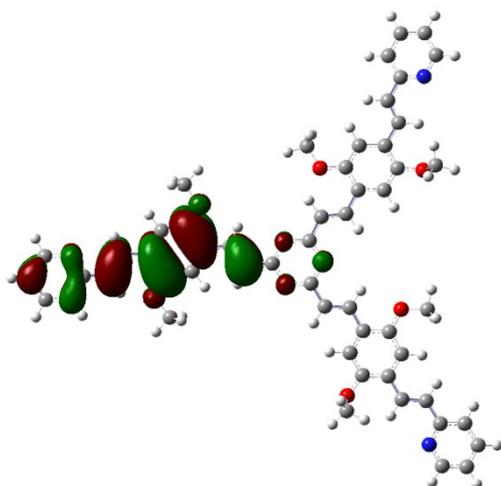
LB1



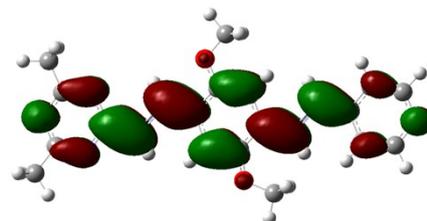
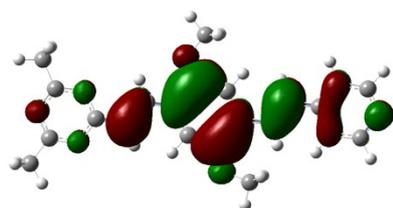
LB2



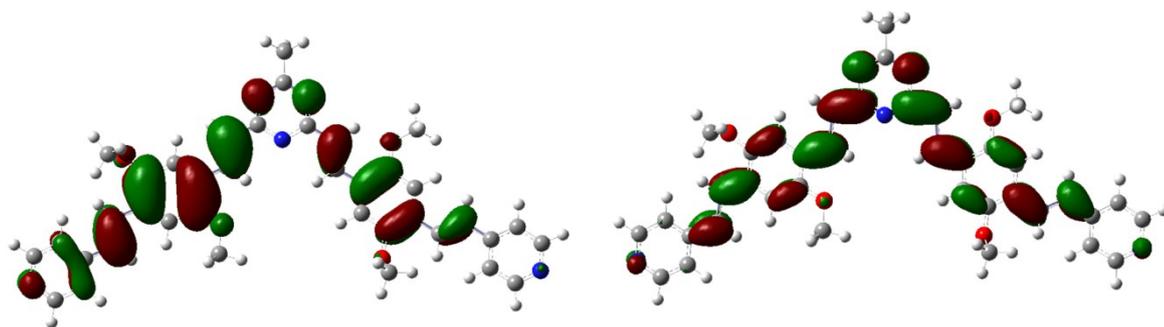
LB3



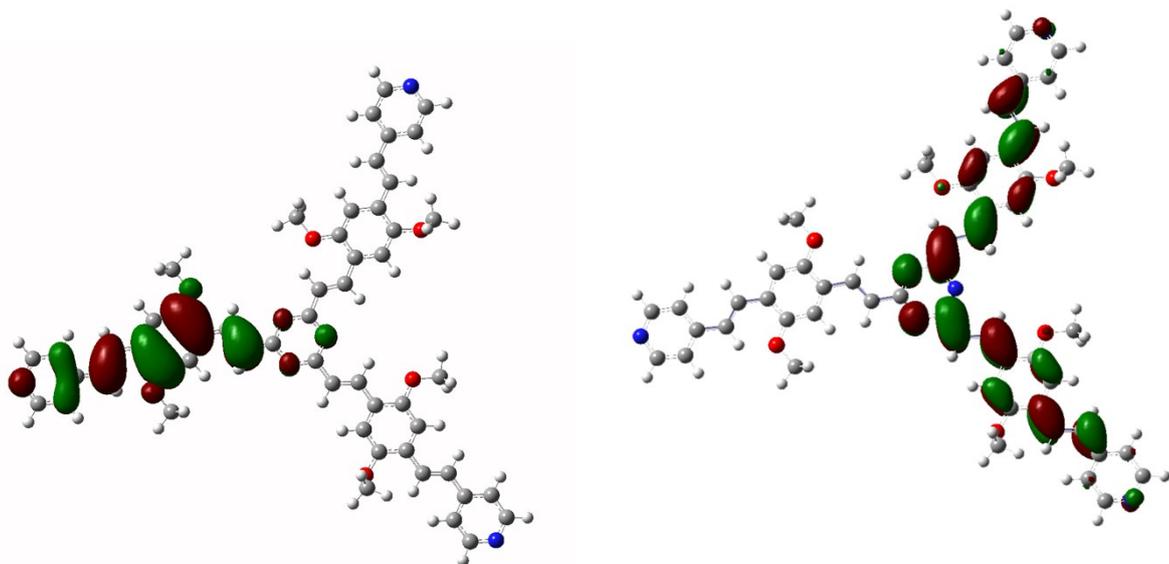
DB1



DB2



DB3



EQ3

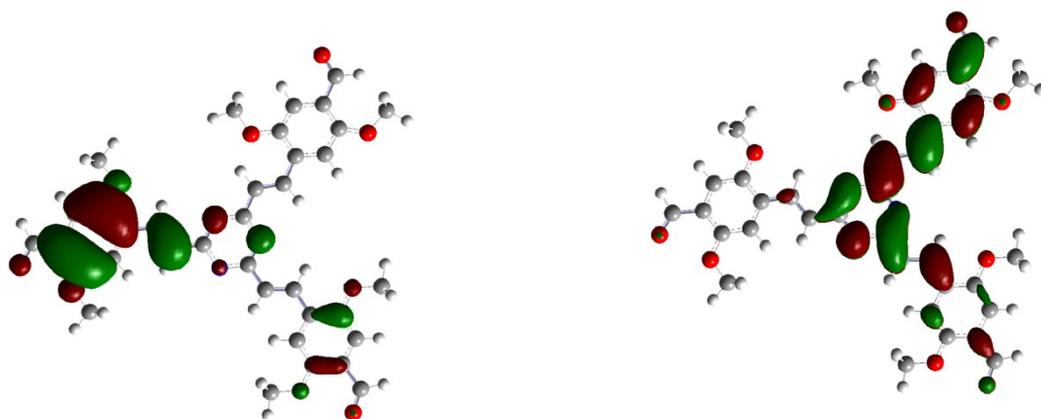


Figure S4. Frontier molecular orbitals of the target compounds (**LB1-LB3**, **DB1-DB3**, **EQ3**)