

Electronic Supplementary Information (ESI)

Design and preparation of hybrid films containing three-branched chromophores for nonlinear optical applications

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Supplementary data

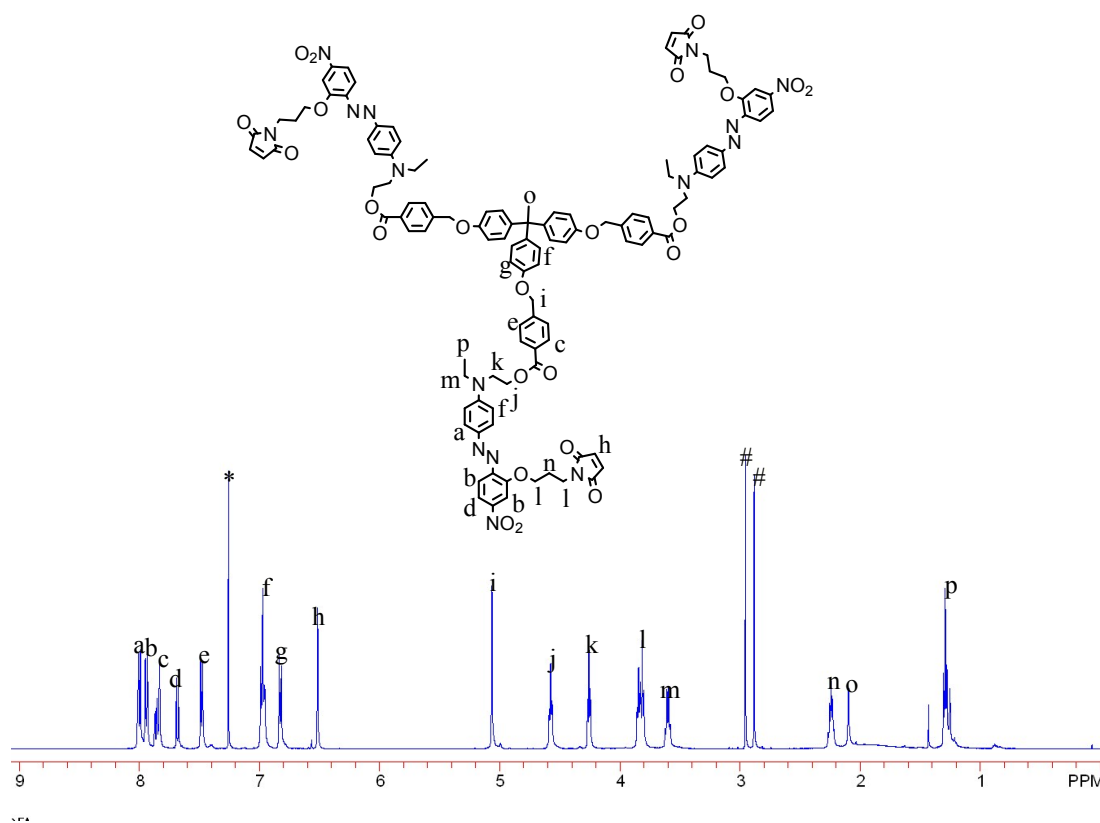


Fig. S1 ¹H NMR spectrum and peak assignments of three-branched dendrimer TCN in CDCl₃.

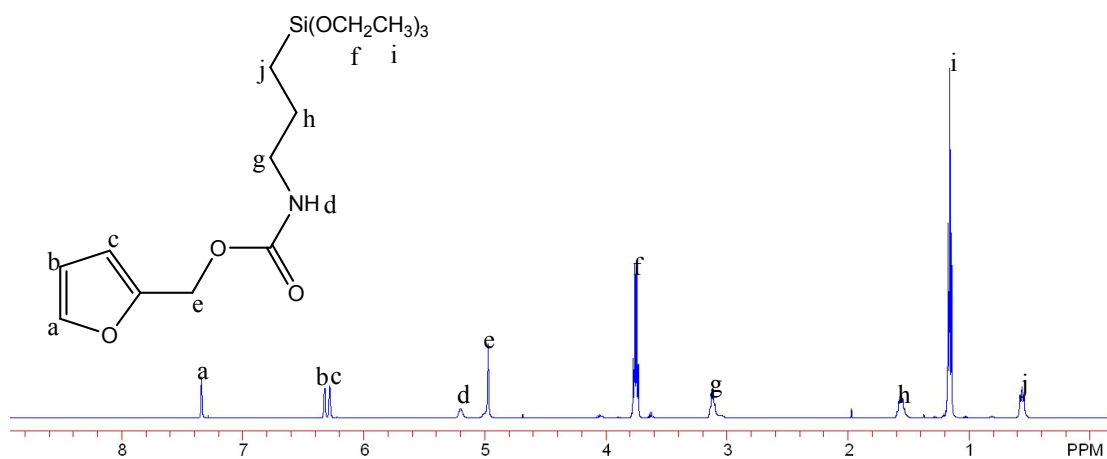


Fig. S2 ¹H NMR spectrum and peak assignments of alkoxy silane dye FTEOS.

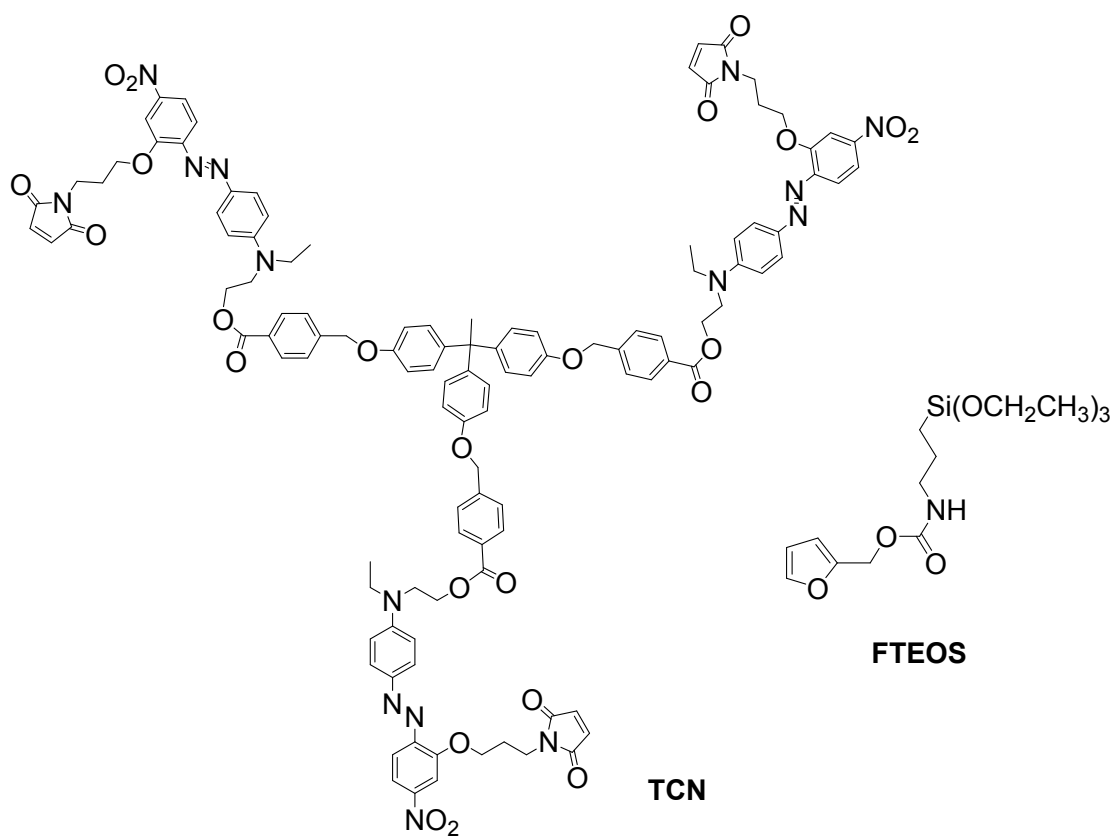


Fig. S3 The chemical structures of three-branched chromophoric dendrimer TCN and alkoxy silane precursor FTEOS.

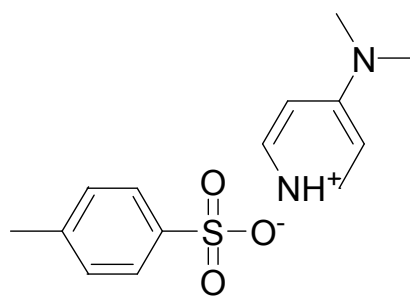


Fig. S4 The chemical structure of DPTS.

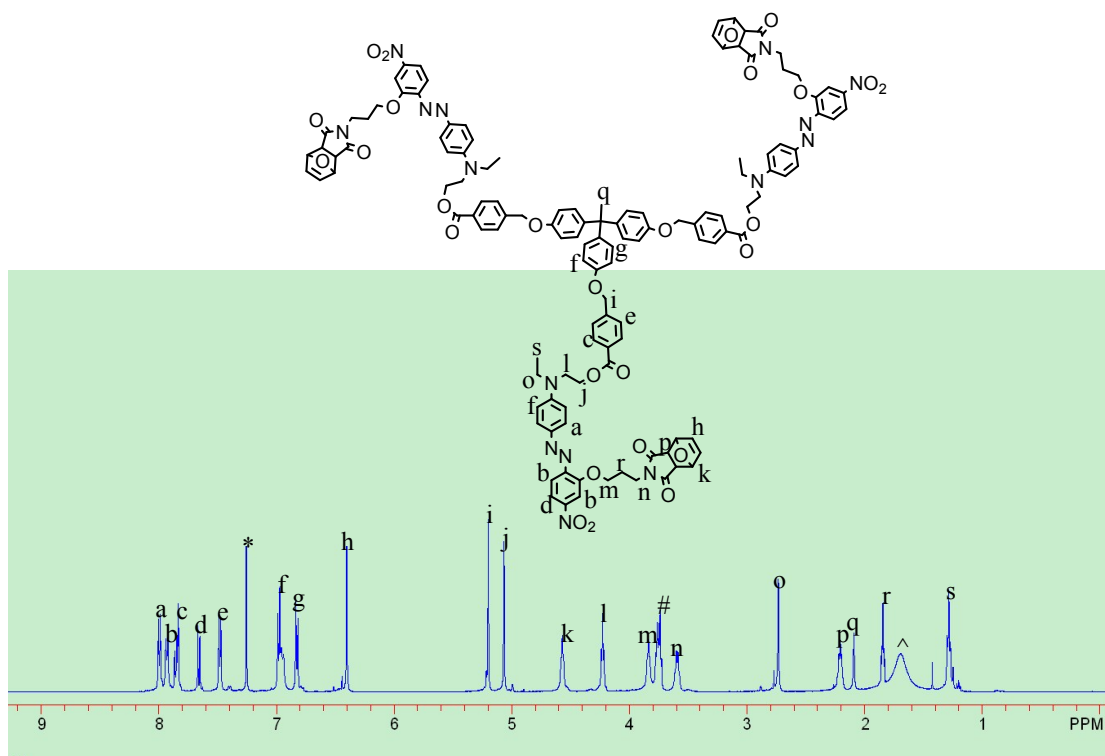


Fig. S5 ¹H NMR spectrum of three-branched dendrimer P-TCN in CDCl₃.

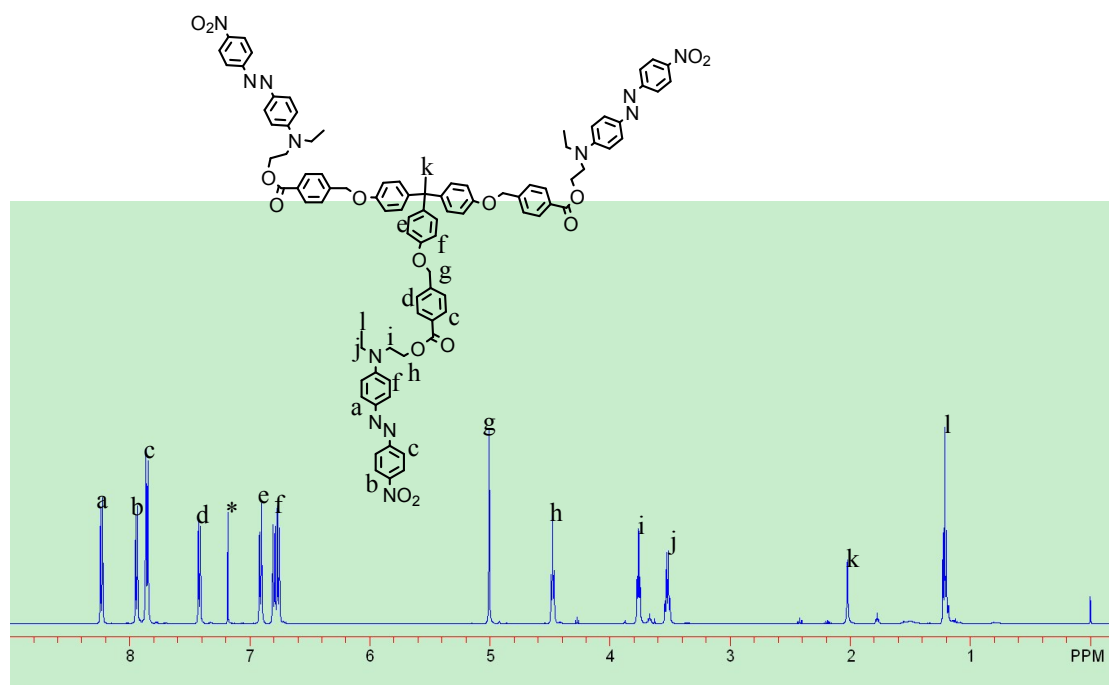


Fig. S6 ¹H NMR spectrum of three-branched dendrimer TDR1 in CDCl₃.

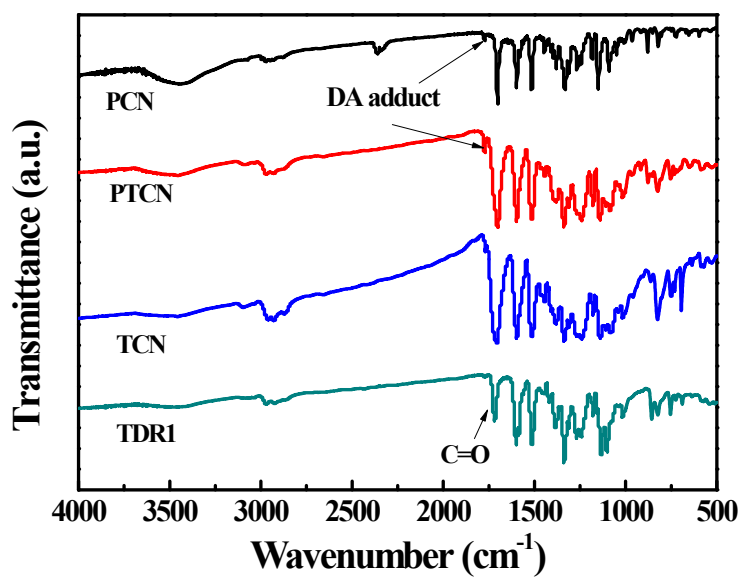


Fig. S7 FTIR spectra of chromophores PCN, PTCN, TCN and TDR1.

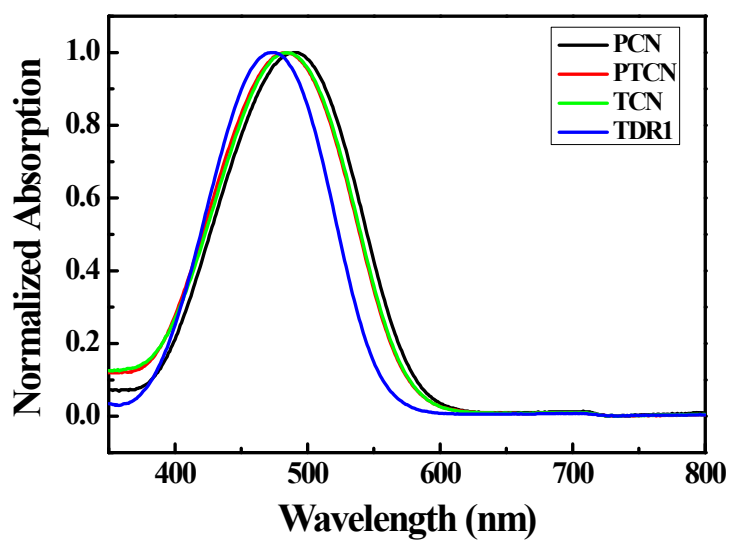


Fig. S8 UV-visible absorption spectra of chromophore PCN and three-branched dendrimers PTCN, TCN, TDR1 in CHCl_3 .

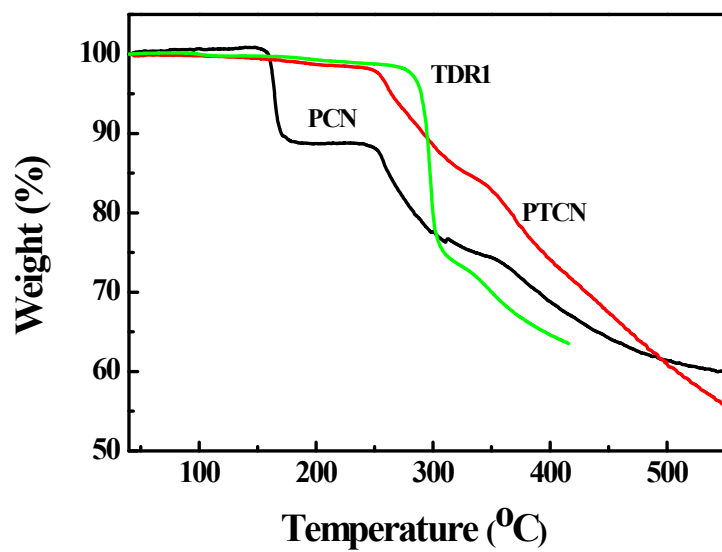


Fig. S9 TGA curves of chromophores PCN, PTCN and TDR1.