

Supporting Information

**Synthesis of a Bi-Functional Terminal Polyhedral
Octasilicate-Core Dendrimer containing Carbazole and
1,8-Naphthalimide, and its Photoluminescence
Properties, Film Formability, and Glass Transition
Behavior**

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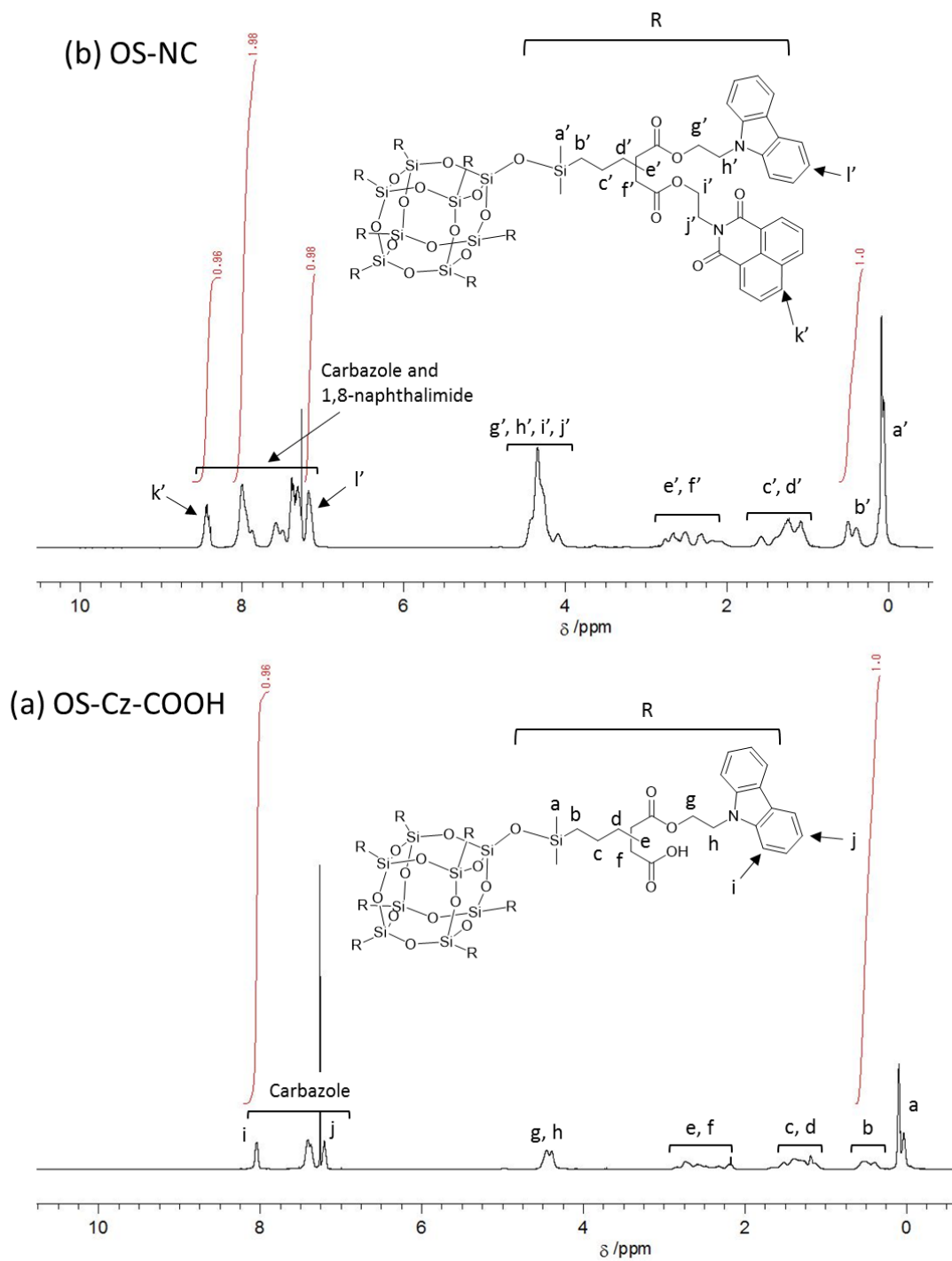


Fig. S1 ^1H NMR spectrum (400 MHz) in CDCl_3 ; (a) OS-Cz-COOH and (b) OS-NC.

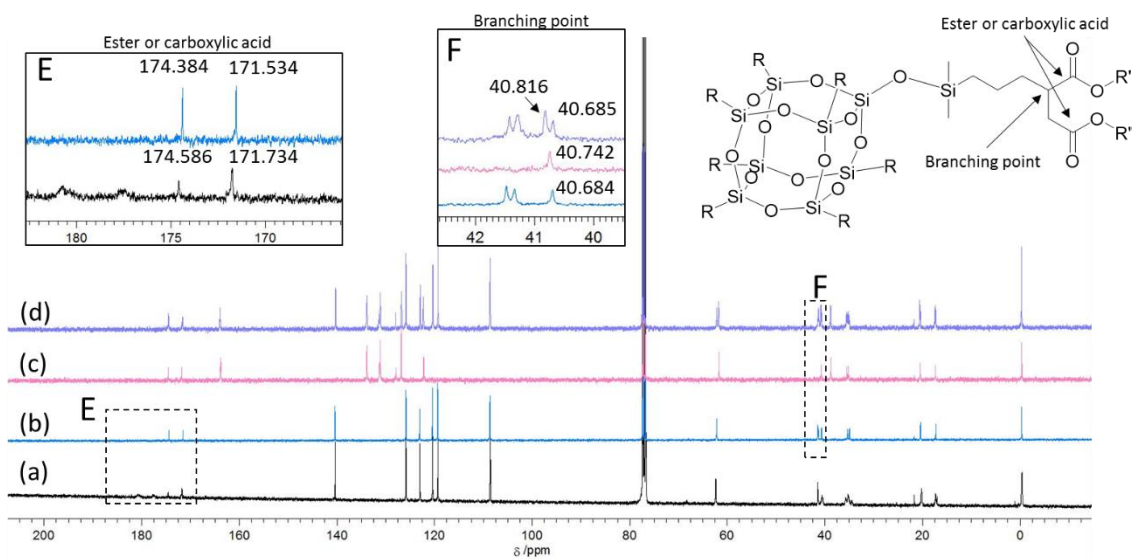


Fig. S2 ^{13}C NMR spectrum (100 MHz) in CDCl_3 ; (a) OS-Cz-COOH, (b) OS-Cz, (c) OS-Ni, and (d) OS-NC.

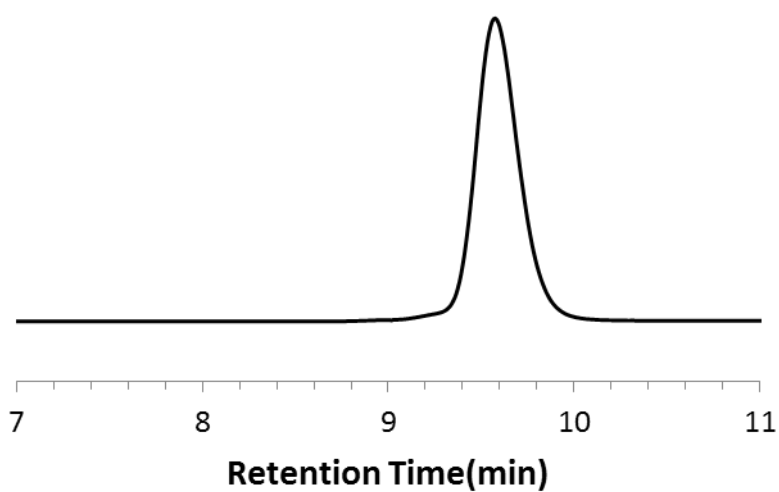


Fig. S3 GPC analysis of OS-NC in DMF containing with 10 mM LiBr.

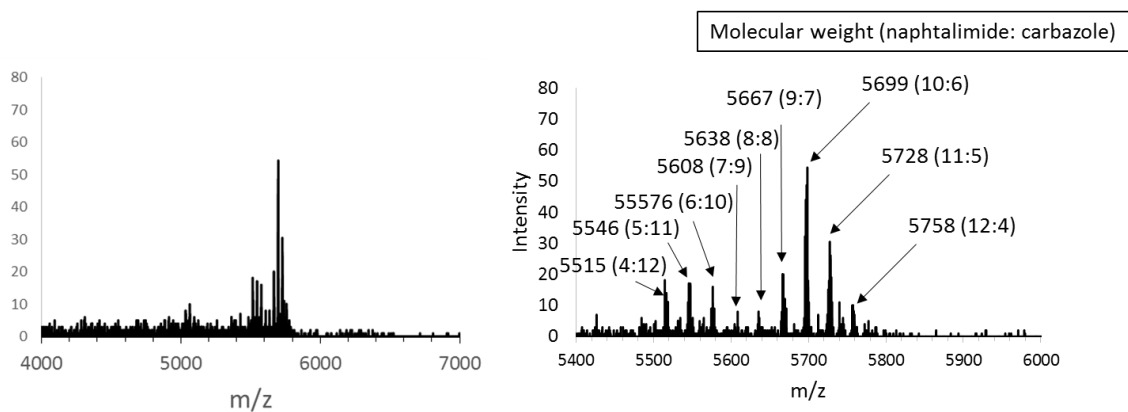


Fig. S4 (left) MALDI TOF-MS spectra of OS-NC, and (right) expanded spectra.

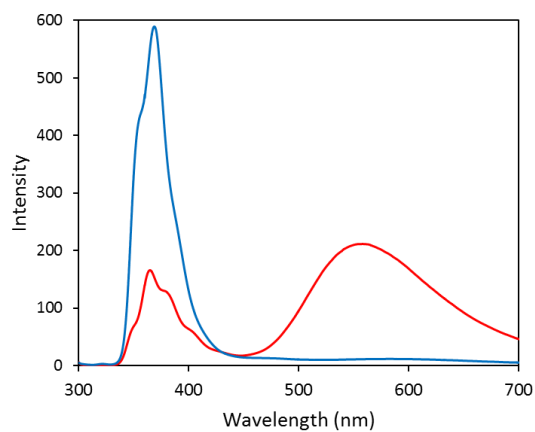


Fig. S5 PL spectra of OS-NC in (red) CHCl_3 , and (blue) DMSO.

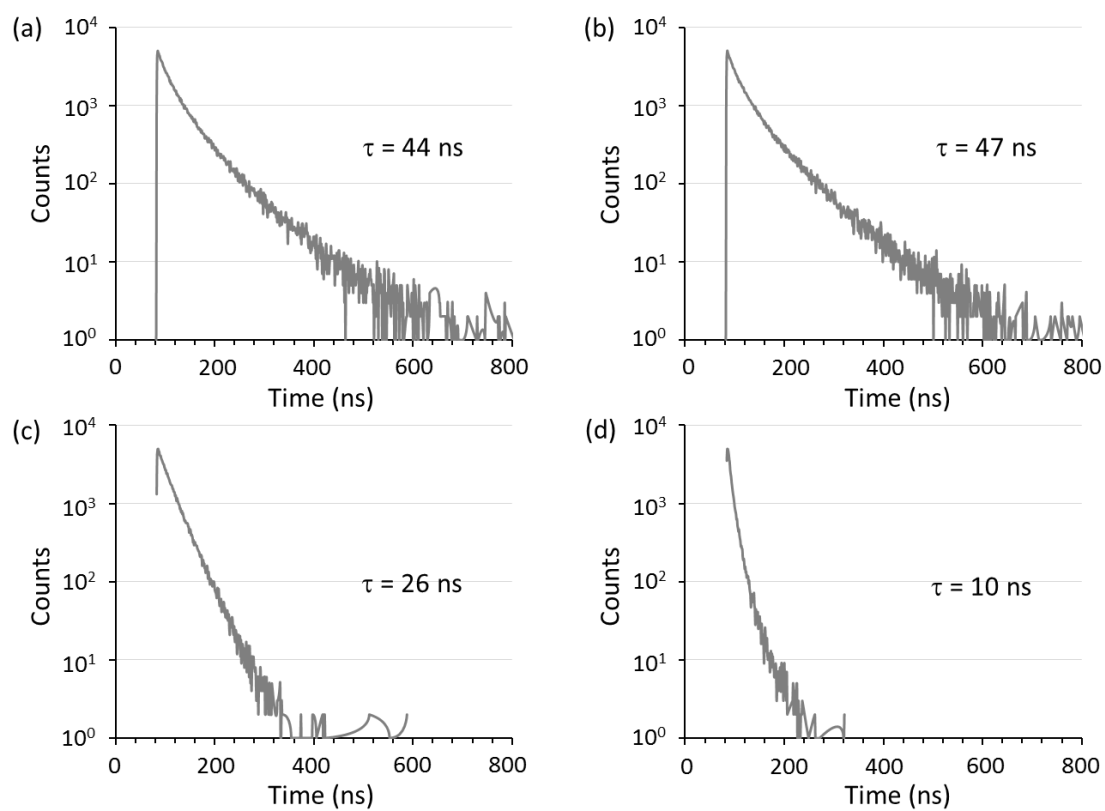


Fig. S6 The emission decay kinetics of (a) OS-NC, (b) OS-C_{0.5}N_{0.5}, (c) OS-Cz, and (d) OS-Ni on excitation at 380 nm.