Supplementary Information

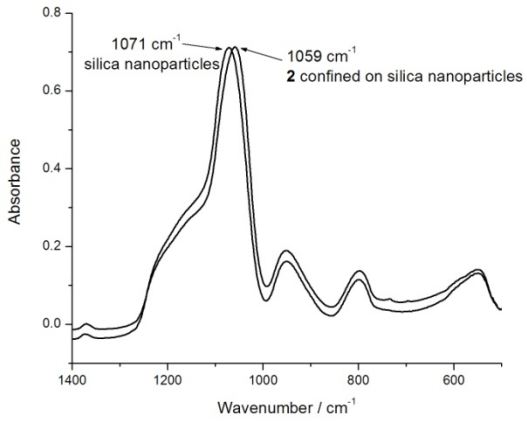

Fig. S1. FTIR spectra of silica nanoparticles and inolocarbazole axle functionalized silica nanoparticles.

The shift of Si-O-Si stretching mode from 1071 cm^{-1} for the bare silica nanoparticle to 1060 cm^{-1} of **8** functionalized silica particles is attributable to an increase in the Si/O ratio with covalent condensation at the surface.[1, 2]

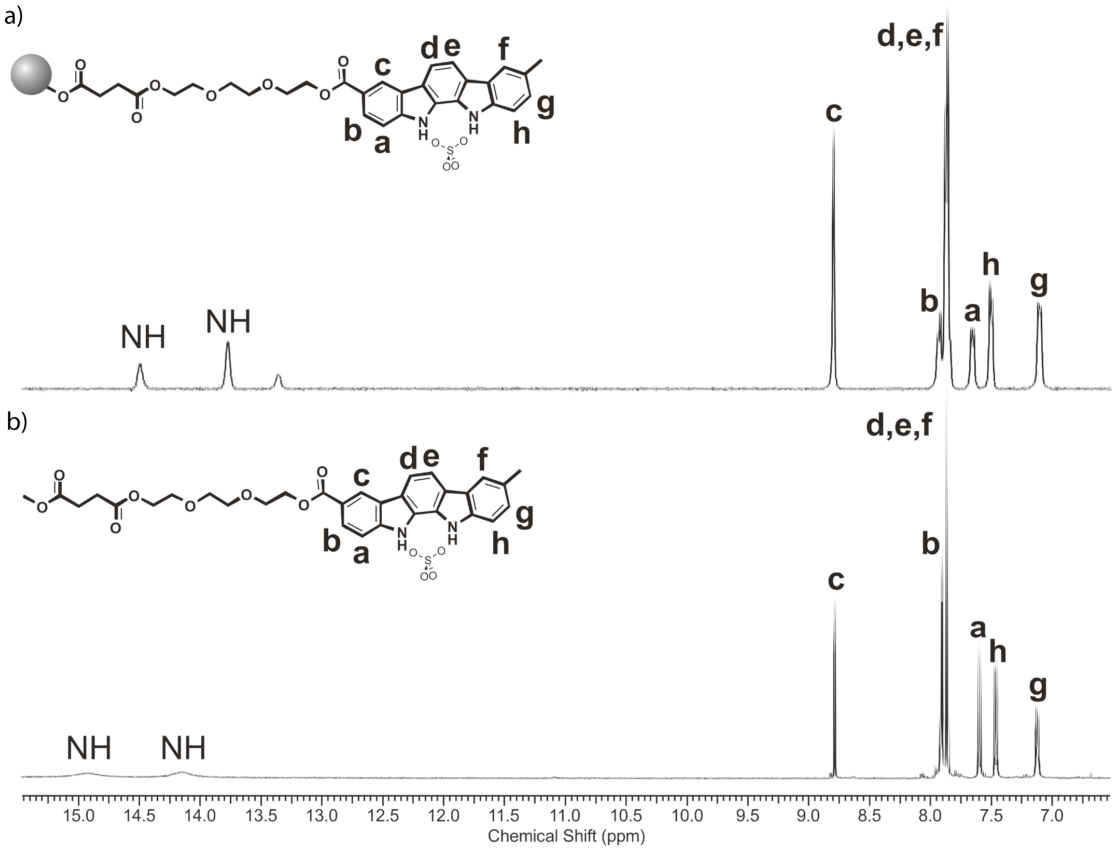

Fig. S2. Direct NMR comparison between solution phase and solid bound indolocarbazole threads; top spectrum - HR MAS ^{1}H NMR spectrum of TentaGel™—OH bound indolocarbazole **4** plus excess $(TBA)_2SO_4$ in CD_3CN; bottom spectrum - ^{1}H NMR spectrum of indolocarbazole **13** plus 1 equivalent of $(TBA)_2SO_4$ (3 mM) in CD_3CN.

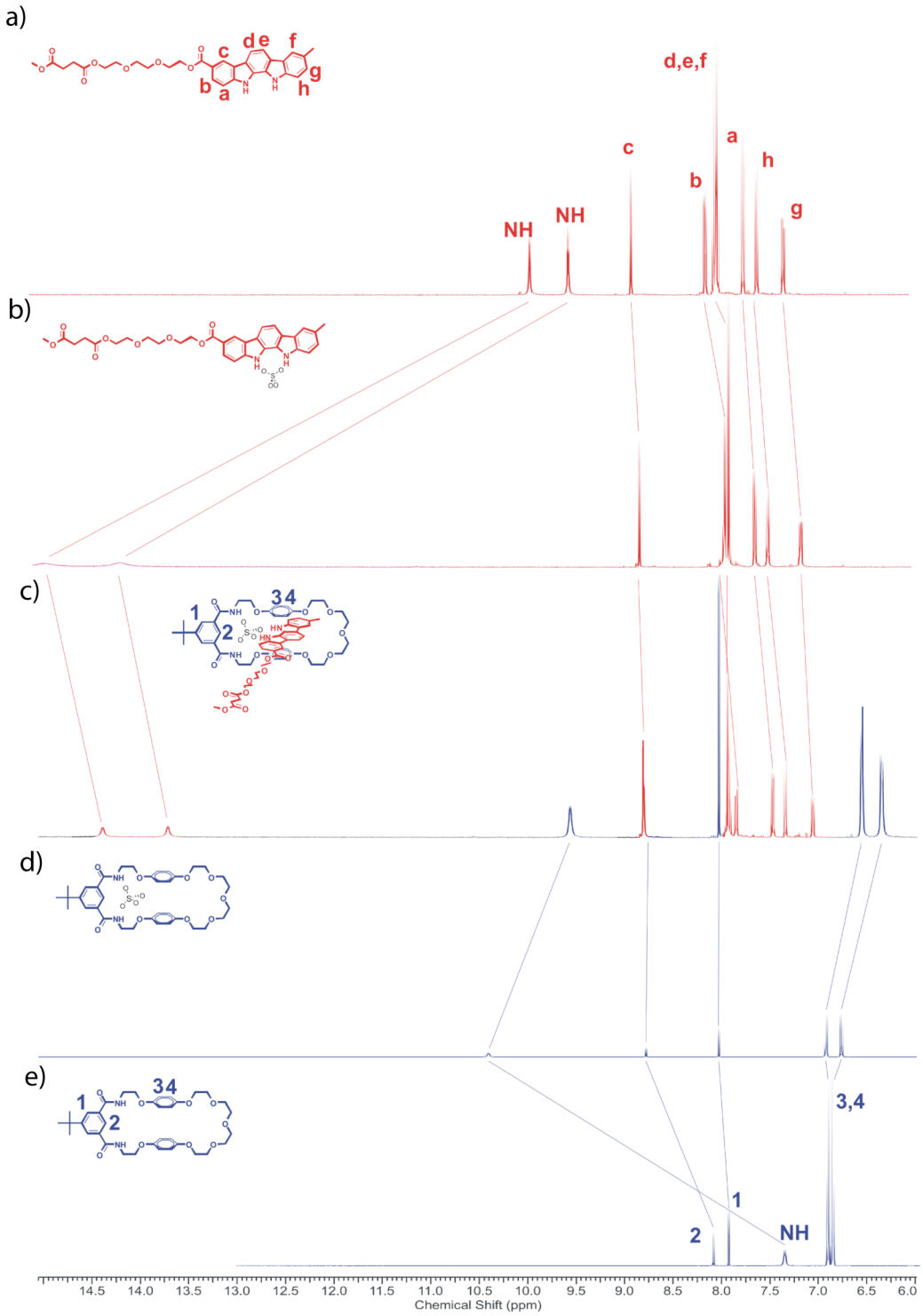

Fig. S3. ^{1}H NMR spectra of a) indolocarbazole **13** b) a 1:1 mixture of **13** and $(TBA)_2SO_4$ c) a 1:1:1 mixture of **13**, $(TBA)_2SO_4$ and macrocycle d) a 1:1 mixture of macrocycle **1** and $(TBA)_2SO_4$ and e) macrocycle **1** in CD_3CN at 18.5 ºC. All components are at a concentration of 3 mM.

References

1. J. Lambers and P. Hess, *J. Appl. Phys.*, 2003, **94**, 2937-2941.
2. M. K. Weldon, B. B. Stefanov, K. Raghavachari and Y. Chabal, *Phys. Rev. Lett.*, 1997, **79**, 2851-2854.