

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: Dataset of the NMR spectra of the POM-pyr in deuterated acetonitrile (CD_3CN), the ZnPc in deuterated chloroform (CDCl_3), and the POM-ZnPc complex in a $\text{CD}_3\text{CN}/\text{CDCl}_3$ mixture of solvent.

File name: Supplementary Data 2

Description: UV-visible spectra of a solution of ZnPc in CH_2Cl_2 with successive addition of POM-pyr in acetonitrile or pure acetonitrile

File name: Supplementary Data 3

Description: Dataset of the main AFM-IR results : infrared spectra of the TSB thick and thin layers (compared with the IR spectrum of the TSB powder recorded in a KBr pellet), Z profile in AFM and IR spectra of big, flat and small nano-objects formed in the POM-ZnPc layer.