Electronic Supplementary Information (ESI)

Hybrid luminescent porous silicon for efficient drug loading and release

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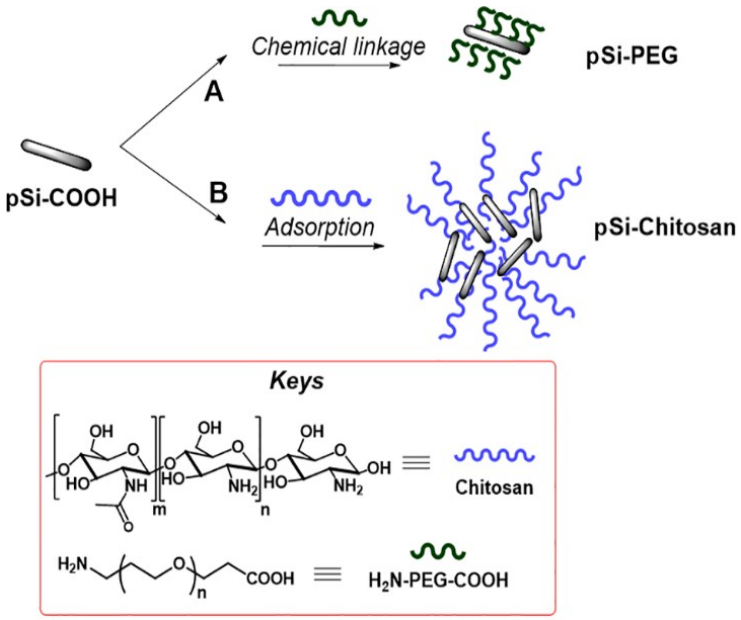

Figure S1. Schematic representation of the pSi surface functionalization procedure.

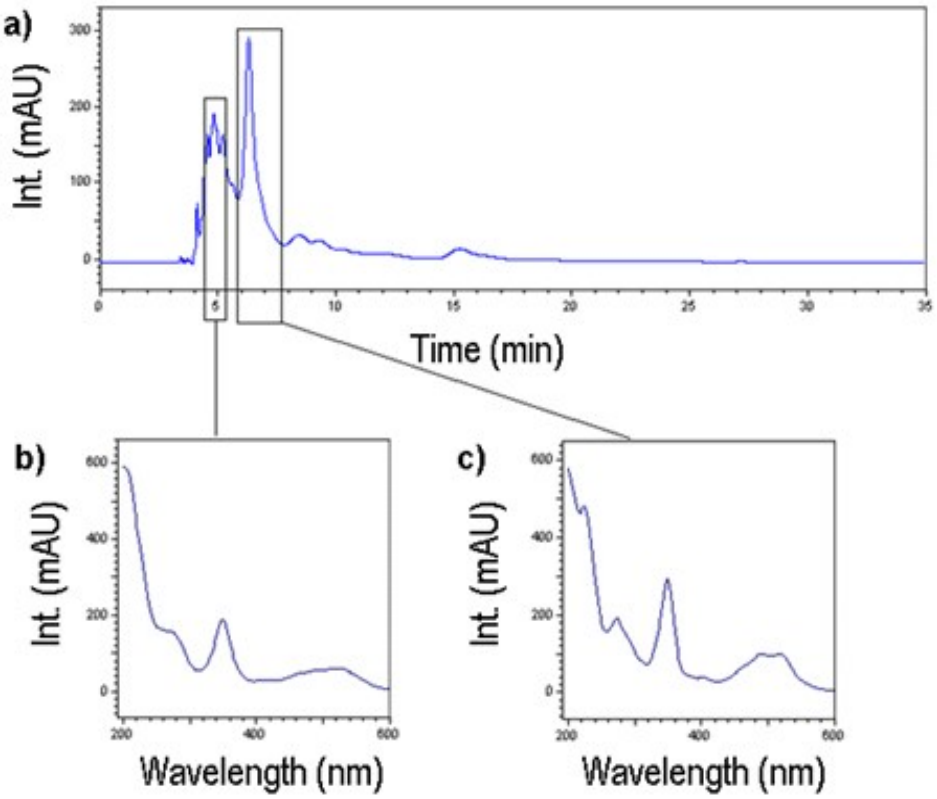

Figure S2. HPLC trace of compounds released from hydroxocobalamin (OH-Cbi) by UV detection at 168 – 351 nm (a). Optical density at times of 289 s (b) and 380 s (c).

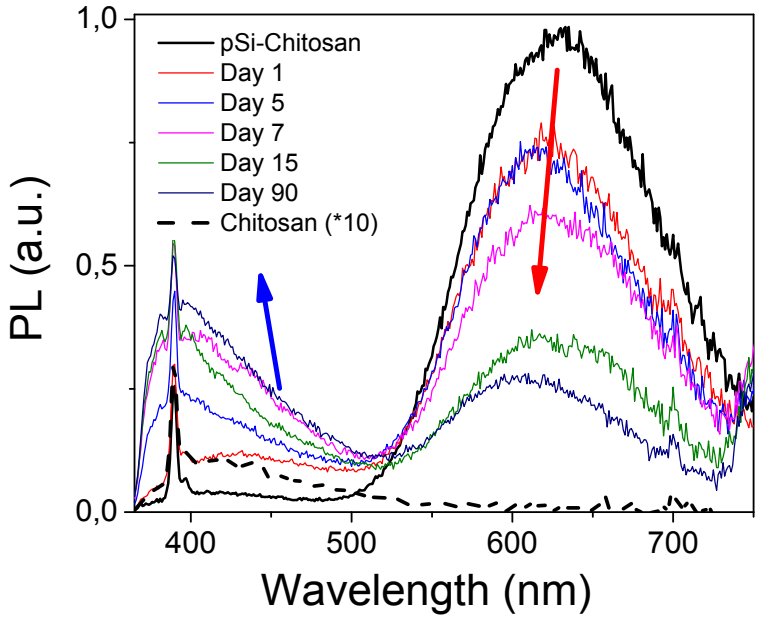

Figure S3. Optical emission spectra of pSi-Chitosan sample after suspension in PBS as a function of time (after 1 day and up to 90 days).

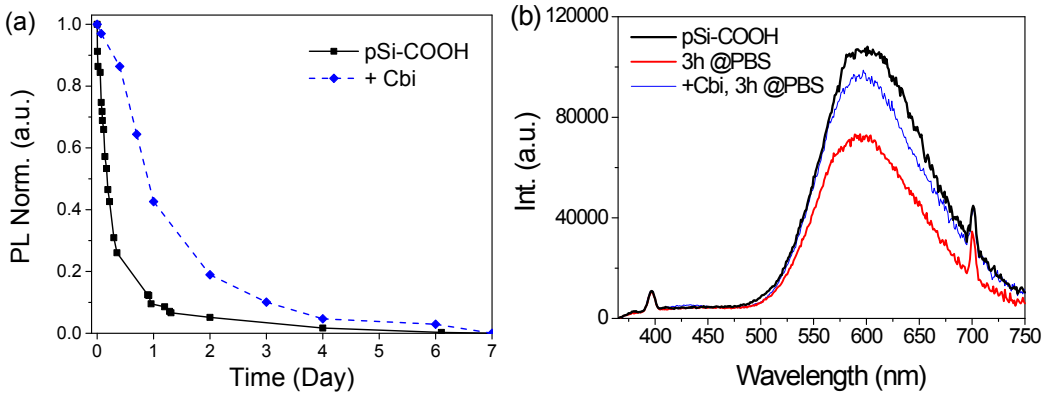

Figure S4. a) influence of Cbi loading on reduction of pSi-COOH PL intensity into PBS. b) PL spectrum of pSi-COOH initially and after 3 h of incubation in PBS, and effect of Cbi loading.