Supporting information for
Luminescent terbium(III) complex-based titania sensing material for fluoride and its photocatalytic properties

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Figure S1 IR spectra of the hybrid material.

Figure S2 Excitation spectra of H$_a$ in water ($\lambda_{em}$=545 nm).
Figure S3 Plot of fluorescence intensity of H$_a$ in water upon addition of 10$^{-3}$ mol/L of [Bu$_4$N]Cl, Br, I and CH$_3$COO (monitored at the 545 nm).

Figure S4 Nitrogen adsorption-desorption curves of the hybrid material.
Figure S5 Fluorescence microscope of $H_a$. 