Supporting document for

Synthesis, Characterization and Optical Properties of

Flower-like Tellurium

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**Figure S1.** SEM images of the samples obtained at different NaOH concentrations: (a, b) 0.23 mol.L$^{-1}$, (c, d) 0.46 mol.L$^{-1}$, (e, f) 1.40 mol.L$^{-1}$ and (g, h) 2.32 mol.L$^{-1}$. 
**Figure S2.** Photoluminescence emission spectrum of Te 3D flower-like superstructures with an excitation wavelength of 341 nm. The deconvolution of the emission band gave two Gaussian components (green lines) with peaks located at 461 and 466 nm.
Figure S3. (a) Low-magnification and (b) high-magnification SEM images of tellurium nanocrystals synthesized in the presence of 0.15 g PVP at 120 °C for 3 h.