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Supporting Information

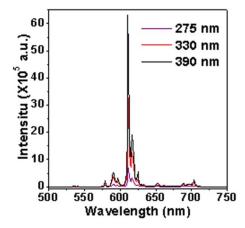


Figure S1. Downconversion emission spectra of HNPs under UV excitation (from 200 to 400 nm).

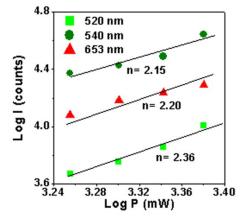


Figure S2. lnI (intensity of UC emission) versus lnP (applied laser input power in mW) plot for UC transitions. The slope of these curves (n) gives the number of photons involved in the particular UC transition.

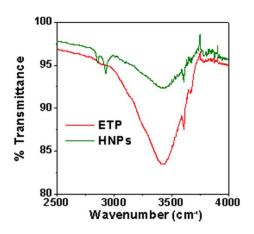


Figure S3 FTIR spectra of ETP and HNPs showing the reduce intensity of vibrational bands in case of HNPs.