

Figure S1. DLS measurements on the size of (a) Tm,Yb:GdVO₄ and (b) Tm,Yb:GdVO₄@SiO₂ nanoparticles

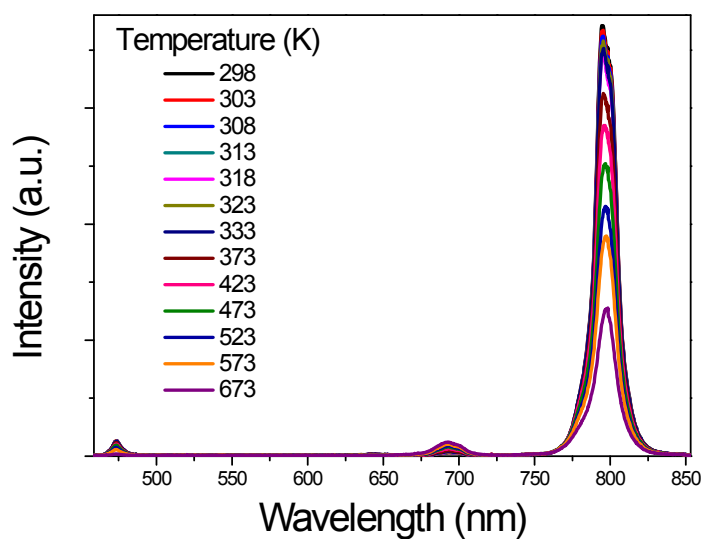


Figure S2. Evolution from room temperature up to 673 K of upconversion spectra under 980 nm excitation for 1% Tm³⁺, 15% Yb³⁺:GdVO₄ core-shell nanoparticles covering the spectral range from 460 nm to 850 nm.

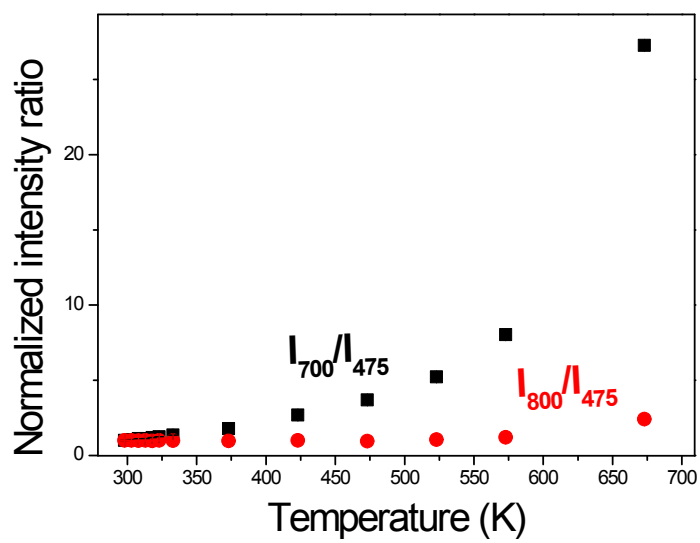


Figure S3. Calibration curves of the intensity ratios between the emission peaks located at 475 and 700 nm (I_{700}/I_{475}) and 475 and 800 nm (I_{800}/I_{475}) as a function of temperature.