

Supplementary information for:

**Single up-conversion nanocrystal as a local temperature probe
of electrically heated silver nanowire**

K. Wiwatowski¹, K. Sulowska¹, R. Houssaini², A. Pilch-Wróbel³,
A. Bednarkiewicz³, A. Hartschuh², S. Maćkowski¹, D. Piątkowski¹

1. Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University in Toruń, ul. Grudziądzka 5, 87-100 Toruń, Poland
2. Department of Chemistry and Center for NanoScience (CeNS), LMU Munich, Butenandtstr. 5-13, 81377 Munich, Germany
3. Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Okólna 2, 50-422 Wrocław, Poland

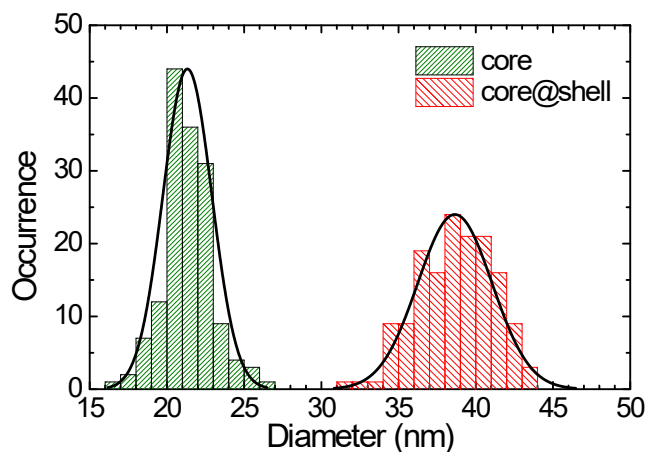


Fig. S1. Statistical distribution of NaYF₄:Er³⁺/Yb³⁺ nanocrystals diameter

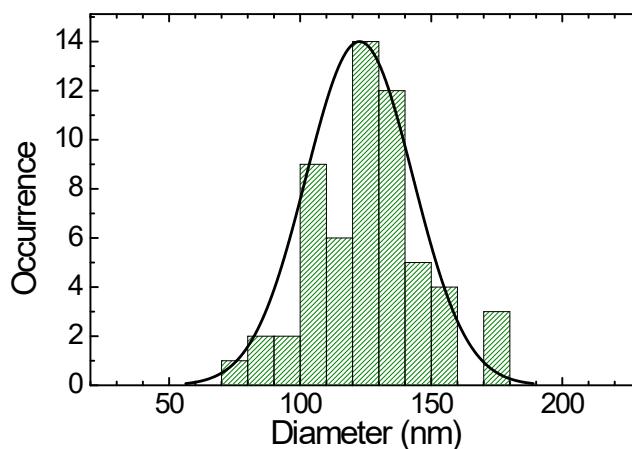


Fig. S2. Statistical distribution of Ag nanowires diameter