Electronic Supplementary Information (ESI)

Radio-luminescence spectral features and fast emission in hafnium dioxide nanocrystals

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Figure S1 - Some RL spectra of the representative sample heated at 400 °C from 20 to 300 K. All the spectra are resolved in Gaussian components (full pink and yellow lines). The numerical reconstruction of the data (dash line) perfectly overlaps the experimental curves (markers). The RL intensity of the band at 2.31 as a function of the temperature is shown in the bottom panel.



Figure S2 – Room temperature RL spectra of samples heated from 500 to 900 °C. Gaussian components (full line) obtained by the numerical fit are shown with experimental curves (markers). The numerical reconstruction of the data is perfectly superimposed to the experimental curves (dash lines).



Figure S3 - RL spectra at different temperatures of HfO_2 NCs annealed at 700 °C. Gaussian components (full lines) obtained by the numerical fit are shown together with experimental curves (markers). The numerical reconstruction of the data well overlaps the experimental curves.