Nanoscale



CORRECTION

View Article Online



Cite this: Nanoscale, 2017, 9, 18107

Correction: Controlled synthesis of lanthanidedoped Gd₂O₂S nanocrystals with novel excitationdependent multicolor emissions

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DOI: 10.1039/c7nr90246h

Correction for 'Controlled synthesis of lanthanide-doped Gd₂O₂S nanocrystals with novel excitationdependent multicolor emissions' by Lei Lei, et al., Nanoscale, 2017, 9, 5718-5724. rsc.li/nanoscale

The authors wish to amend the sections of the manuscript detailed below. These corrections are due to the misleading origin of the excitation bands for Eu/Sm/Dy in lanthanide oxysulfide hosts.

The corrections are as follows:

- (1) On page 5718 in the sentence beginning "Considering that Tb³⁺ and..." the phrase "4f \rightarrow 5d" should instead read as " $4f \rightarrow 5d \text{ or } 4f \rightarrow 4f$ ".
- (2) On page 5721 in the sentence beginning "Taking the F-NYG NCs..." the phrase " $4f^n \rightarrow 4f^{n-1}5d^1$ " should instead read as " $4f \rightarrow 5d$ or charge transfer band"
- (3) On page 5721 in the sentence beginning "On replacing all Gd^{3+} ions..." the phrase "the intensity of the $4f \rightarrow 5d$ transitions for Tb³⁺ and Dy³⁺ in the PLE spectra" should instead read as "the intensity of the 4f \rightarrow 5d transitions for Tb³⁺ and O²⁻ \rightarrow Dy³⁺ charge transfer for Dy³⁺ in the PLE spectra".
- (4) On page 5721 in the sentence beginning "However, the color variation..." the phrase " $4f \rightarrow 5d$ transitions of Tb³⁺ and Eu³⁺" should instead read as "4f \rightarrow 5d transitions of Tb³⁺ and 4f \rightarrow 4f transitions of Eu³⁺"
 - (5) The labels in Fig. 4(a) and Fig. S10(b) should be corrected, as shown in the below corrected figures.

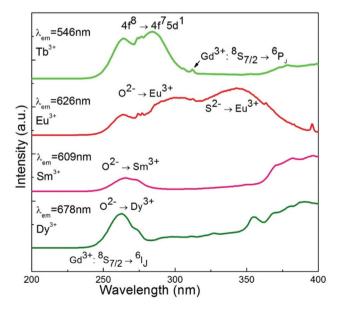


Fig. 4a PLE spectra of F-NYG:Tb³⁺ (or Eu³⁺, Sm³⁺, and Dy³⁺).

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Fig. S10b PLE spectrum of F-NYG: 2%Dy (Y₂O₂S: 2%Dy).

(6) References 9 and 39 given in the sentence beginning "Multicolor emission could not..." should instead refer to the references listed below (ref. 2 and 3)

Wavelength (nm)

300

350

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

References

Correction

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