

Accepted Manuscript

Cross-relaxation and non-steady-state processes induced up-conversion color modulation in $\text{Gd}_2\text{O}_3: \text{Ln}^{3+}/\text{Er}^{3+}$ ($\text{Ln} = \text{Tm}, \text{Ho}$)

Xiaoqi Zhao, Hao Suo, Zhiyu Zhang, Chongfeng Guo



PII: S0143-7208(17)32485-3

DOI: [10.1016/j.dyepig.2018.01.015](https://doi.org/10.1016/j.dyepig.2018.01.015)

Reference: DYPI 6489

To appear in: *Dyes and Pigments*

Received Date: 5 December 2017

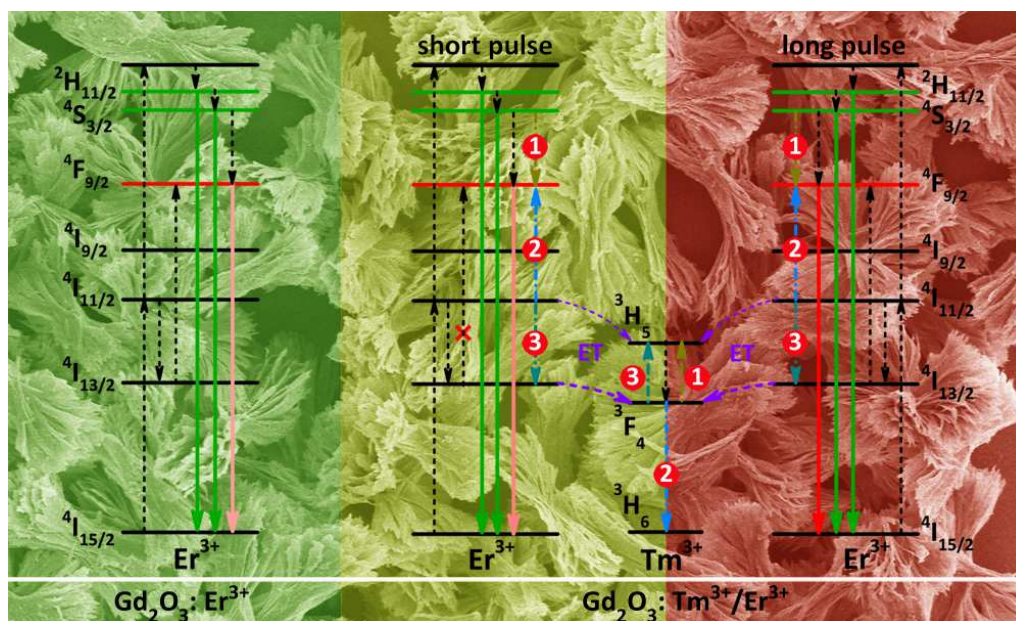
Revised Date: 30 December 2017

Accepted Date: 10 January 2018

Please cite this article as: Zhao X, Suo H, Zhang Z, Guo C, Cross-relaxation and non-steady-state processes induced up-conversion color modulation in $\text{Gd}_2\text{O}_3: \text{Ln}^{3+}/\text{Er}^{3+}$ ($\text{Ln} = \text{Tm}, \text{Ho}$), *Dyes and Pigments* (2018), doi: 10.1016/j.dyepig.2018.01.015.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Graphical abstract



Modulating the up-conversion (UC) emission colors through cross-relaxation and non-steady-state UC processes

Download English Version:

<https://daneshyari.com/en/article/6599184>

Download Persian Version:

<https://daneshyari.com/article/6599184>

[Daneshyari.com](https://daneshyari.com)