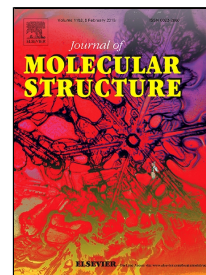


Accepted Manuscript

Structural studies of a green-emitting terbium doped calcium zinc phosphate phosphor



B. Ramesh, G.R. Dillip, B. Rambabu, S.W. Joo, B. Deva Prasad Raju

PII: S0022-2860(17)31532-6
DOI: 10.1016/j.molstruc.2017.11.044
Reference: MOLSTR 24531
To appear in: *Journal of Molecular Structure*
Received Date: 28 August 2017
Revised Date: 09 November 2017
Accepted Date: 10 November 2017

Please cite this article as: B. Ramesh, G.R. Dillip, B. Rambabu, S.W. Joo, B. Deva Prasad Raju, Structural studies of a green-emitting terbium doped calcium zinc phosphate phosphor, *Journal of Molecular Structure* (2017), doi: 10.1016/j.molstruc.2017.11.044

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.

Highlights

Structural studies of a green-emitting terbium doped calcium zinc phosphate phosphor

B. Ramesh^a, G. R. Dillip^{b,}, B. Rambabu^c, S.W. Joo^{b,**}, B. Deva Prasad Raju^{a,*}**

1. A green emitting $\text{CaZn}_2(\text{PO}_4)_2:\text{Tb}^{3+}$ phosphors were synthesized.
2. Chemical bonds of P-O, Ca-O, Zn-O and Tb-O were investigated by XPS.
3. The phosphor has two different decay dynamics upon various emissions.
4. Chromaticity coordinates were located in green region of visible spectrum.

Download English Version:

<https://daneshyari.com/en/article/7808879>

Download Persian Version:

<https://daneshyari.com/article/7808879>

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