

## Accepted Manuscript

Title: Moss-Burstein effect in stable, cubic ZrO<sub>2</sub>: Eu<sup>+3</sup> nanophosphors derived from rapid microwave-assisted solution-combustion technique

Authors: S. Manjunatha, R. Hari Krishna, Tiju Thomas, B.S. Panigrahi, M.S. Dharmaprakash



PII: S0025-5408(17)30546-9  
DOI: <https://doi.org/10.1016/j.materresbull.2017.10.006>  
Reference: MRB 9613

To appear in: *MRB*

Received date: 9-2-2017  
Revised date: 4-10-2017  
Accepted date: 4-10-2017

Please cite this article as: S.Manjunatha, R.Hari Krishna, Tiju Thomas, B.S.Panigrahi, M.S.Dharmaprakash, Moss-Burstein effect in stable, cubic ZrO<sub>2</sub>: Eu<sup>+3</sup> nanophosphors derived from rapid microwave-assisted solution-combustion technique, Materials Research Bulletin <https://doi.org/10.1016/j.materresbull.2017.10.006>

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.

# Moss-Burstein effect in stable, cubic $ZrO_2$ : $Eu^{+3}$ nanophosphors derived from rapid microwave-assisted solution-combustion technique

S. Manjunatha,<sup>a</sup> R. HariKrishna,<sup>b</sup> TijuThomas,<sup>c\*</sup> B.S. Panigrahi,<sup>d</sup> M.S. Dharmaprakash<sup>a\*</sup>

<sup>a</sup> Department of Chemistry, BMS College of Engineering, Bull Temple Road, Bengaluru-560019, India.

<sup>b</sup> Department of Chemistry, M. S. Ramaiah Institute of Technology, Bengaluru -560054, India.

<sup>c</sup> Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Madras, Chennai-600036, India.

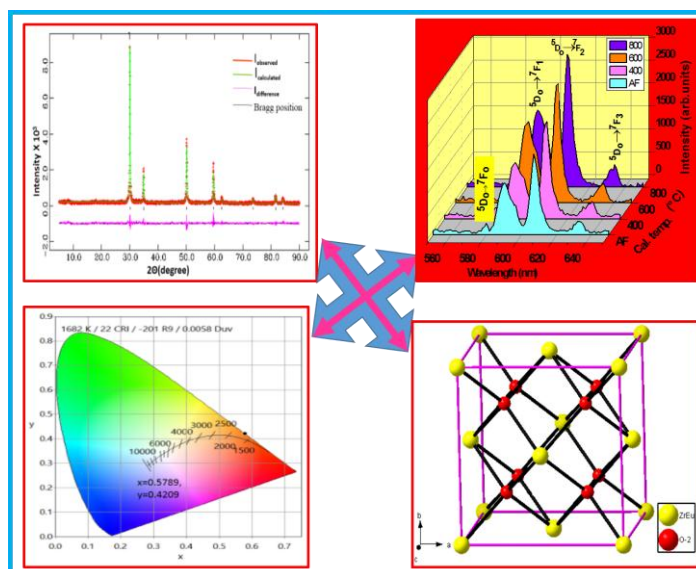
<sup>d</sup> Department of Atomic Energy, Indira Gandhi Centre for Atomic Research, Technical Services Division, Kalpakkam-603102, India.

## \*Corresponding author

\* Department of Chemistry, BMS College of Engineering, Bull Temple Road, Hanumanthnagar, Bangalore-560019, India. E-mail: [dharmaprakashbms@gmail.com](mailto:dharmaprakashbms@gmail.com)

\* Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Madras, Chennai-600036, India E-mail: [tt332@cornell.edu](mailto:tt332@cornell.edu), [tijuthomas@iitm.ac.in](mailto:tijuthomas@iitm.ac.in)

## Graphical abstract



Download English Version:

<https://daneshyari.com/en/article/5441696>

Download Persian Version:

<https://daneshyari.com/article/5441696>

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