



bebeh wahid <bebehwahid102@gmail.com>

Our initial decision on your article: MRX-107025

1 message

Materials Research Express <onbehalf@manuscriptcentral.com>

Tue, Feb 20, 2018 at 6:34 PM

Reply-To: mrx@iop.org

To: bebehwahid102@uinsgd.ac.id, bebehwahid102@gmail.com

Cc: bebehwahid102@uinsgd.ac.id, bebehwahid102@gmail.com, yayusuryani2@gmail.com, yuli.yuliani21@gmail.com, s.setiadji@gmail.com, ade.yeti@uinsgd.ac.id, ferry@fi.itb.ac.id

Dear Dr Nuryadin,

Re: "Sintering Time Optimization on Red Photoluminescence Properties of Manganese-doped Boron Carbon Oxynitride (BCNO:Mn) Phosphor" by Nuryadin, Bebeh; Suryani, Yayu; Yuliani, Yuli; Setiadji, Soni; Nuryantini, Ade; Iskandar, Ferry
Article reference: MRX-107025

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The referee(s) have recommended that you make some amendments to your article. The referee report(s) can be found below and/or attached to this message. You can also access the reports at your Author Centre, at <https://mc04.manuscriptcentral.com/mrx-iop>

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Yours sincerely

Lucy Evans

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Impact Factor: 1.068

REFeree REPORT(S):

Referee: 1

COMMENTS TO THE AUTHOR(S)

The subject investigated in this MS is very interesting. Unfortunately, the scientific merit and the organizational quality of the paper are too low to deserve publication. The following points require careful revision:

1- About the organization of the MS, the structural properties of the materials should be described first. There is no sense describing the luminescence properties until the crystal structure of the host lattices is unknown. In this paper, only sample D has been checked by X-ray diffraction and then it happens that the material consists of a mixture of phases. In this situation, it seems to me very difficult to draw out reliable conclusions on the spectroscopic behaviors. For the other samples, nothing is known in connection with phase purity. This should be addressed.

2 - We know nothing about the crystal structures of BCNO. This, also, is missing if we want to know more about the location of Mn²⁺ ions within the host lattice.

3 –The wavelength position of the red band differs significantly from one sample to the other. How can this be explained? Does it reveal different kinds of Mn²⁺ emitters or other contributions, for instance from the host lattice itself. Please expand.

4 – What is the origin of the blue emission?

5 – The paragraph at top of page 5 is hardly understandable. It is question of energy transfer but from what to what? From the host to Mn²⁺ or between Mn²⁺ ions? Please clarify. At the end of this paragraph, it is stated that the excitation energy is absorbed by the crystal lattice and then transferred to the dopant. In this situation, the excitation spectrum corresponding to the Mn²⁺ emission should contain host-related excitation features. However, the 350 nm band is ascribed to 6A₁-4T₁ absorption of Mn²⁺, not to the host. This should be clarified.

6 – It is stated at bottom of page 4 that the PL intensity increases due to the increase of Mn content. This, however, is not confirmed by Fig. 3(a) that shows that the maximum of red intensity is observed in the undoped sample. Please clarify.

7 - The decay curves of Fig. (4b) were fitted using a double exponential function from which we expect to get two time constants. According to the bottom of page 6, the decay curves relate to the lifetime of the 4T₁ state of Mn²⁺. Should we understand that the 4T₁ state possesses two time-constants? Please clarify.

Letter reference: DSMo01



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Your revised submission to Mater. Res. Express: MRX-107025.R1

1 message

Materials Research Express <onbehalfof@manuscriptcentral.com>

Mon, Mar 5, 2018 at 10:23 PM

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Article reference: MRX-107025.R1

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Letter reference: SAu07



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Thu, Mar 8, 2018 at 10:00 PM

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Dear Dr Nuryadin,

Re: "Sintering Time Optimization on Red Photoluminescence Properties of Manganese-doped Boron Carbon Oxynitride (BCNO:Mn) Phosphor" by Nuryadin, Bebeh; Suryani, Yuyu; Yuliani, Yuli; Setiadji, Soni; Nuryantini, Ade; Iskandar, Ferry
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Letter reference: ERWC05



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Our decision on your Paper: MRX-107025.R1

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Tue, Apr 3, 2018 at 3:42 PM

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Article reference: MRX-107025.R1

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REFEREE REPORT(S):

Referee: 2

COMMENTS TO THE AUTHOR(S)

The Authors have duly considered all points raised by the reviewer and satisfactorily replied to the related criticisms. In the present version, the style of the presentation has been improved and the paper can be accepted for publication.

Letter reference: ERWSA01



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Thu, Apr 5, 2018 at 7:22 PM

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