Answers:

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Reviewer B:

The manuscript reports on the spectroscopic properties of Er3+ doped heavy

metal oxide glasses. The glass composition under investigation is

interesting in view of the reported thermal stability factor. However, thereare some concerns which needs to be addressed before further consideration of the manuscript.

1. In Table 2, the absorption and emission cross section shows an increasing trend with the increase in dopant concentration. Such strong increase in cross section for a small composition change (1 mol% if any) is strange. Are all the samples transparent for the concentrations investigated? Are all the glasses homogeneous, no phase separation or no devitrification? If yes,then provide a detailed explanation for the increase in cross section withconcentration.

**After precise analysis of the cross-section parameters a misstatementin a computing system, which caused abnormal values of the parameters, has been found. Valid values are now presented in Table 2. Authors also inform that all samples are transparent without visible phase separation or crystallization effects. Proper text was included in manuscript.**

2. In view of the discussion above, it would be helpful to include the

Judd-Ofelt analysis and correlate the results with theoretical emission

cross sections

**Thank You for Your suggestion. The main aim of article was presentation of thermal and spectroscopic properties of fabricated glass. Judd-Ofelt analysis is of course very useful and important method of analysis and will be included in further investigations.**

3. The values in table 1 can be restricted to one or two decimal points,

i.e. interionic distance,, etc.

**Values in table 1 has been revised.**

4. Give reference for the expressions 1, 5 used.

**Reference has been added.**

5. Is mid-infrared application appropriate region for the investigated

emission?

**Title has been corrected.**

6. It would be helpful for the readers to understand the chemical

composition of the glasses, if possible.

**Approximate molar compositions of the examined glasses have been included.**

finally, the language needs careful revision.

**Manuscript language has been revised with our best effort.**

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Reviewer C:

Manuscript No. : 561-2110-1-RV

Reviewer?s report on the manuscript entitled ?Spectroscopic properties of

heavy metal oxide glasses doped with Er3+ ions for mid-infrared

applications?

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The manuscript has been thoroughly examined for its suitability of

publication in Photonics Letters of Poland. This manuscript presents 1.53

?m emission from Er3+ doped bismuth-germanate glass. Authors also presented

some basic optical properties like refractive index and thermal properties

like glass transition temperature, crystallization initiation temperature

and glass stability factor. This appears very routine work and lacks in

depth scientific discussion. In order to keep up the standard of the

journal, it needs major revision on the following points:

1. First of all, authors have indicated in the title of the manuscript ?for mid-infrared applications?. However, the manuscript reports only 1.54 ?m emission properties, this wavelength pertains to near infrared wavelength only. So title should be changed appropriately.

**Title has been corrected.**

2. In experimental section, authors have not given details of DSC

measurements. It should be included.

**Description of the DSC measurements has been added.**

3. Authors have prepared set of four glasses with varied concentration of dopant ion, but the properties of only one glass (0.5 % Er2O3) is presented in Table 1. For clear understanding of the readers, it is suggested to present properties of all glasses understudy, compare and discuss.

**Table 1 has been corrected with suitable comment.**

4. It is mentioned 1 mol% as optimum concentration of dopant to give maximum luminescence intensity, authors should discuss on concentration quenching mechanism. It is genuine to measure lifetime and discuss.

**Thank You for Your suggestion, during subsequent research specified parameters will be measured and analyzed.**

5. Scientific discussion should be strengthened on the grounds of band

width, quenching mechanisms etc.

**Discussion has been added to the manuscript with Fig. 4.**

6. There are many grammatical and typographical mistakes throughout the

manuscript. Language part should be improved to a great extent

**Manuscript has been revised with our best effort.**

If the authors implement the correction and revise the manuscript

accordingly, the manuscript may be accepted for publication in the journal,

Photonics Letters of Poland.