

**Review Form 1.7**

Journal Name:	<b>Physical Science International Journal</b>
Manuscript Number:	<b>Ms_PSIJ_107690</b>
Title of the Manuscript:	<b>EFFECT OF TEMPERATURE ON THE RADIAL DISTRIBUTION FUNCTION OF ATOMS IN THE SILICATE GLASS 2SiO<sub>2</sub>-PbO</b>
Type of the Article	<b>Original Research Article</b>

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**PART 1: Review Comments**

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p><b>Review</b> of an article titled <b>EFFECT OF TEMPERATURE ON THE RADIAL DISTRIBUTION FUNCTION OF ATOMS IN THE SILICATE GLASS 2SiO<sub>2</sub>•PbO</b> (Manuscript Number: Ms_PSIJ_107690).</p> <p><b>Materials and methods.</b> A brief report is devoted to the study of the effect of temperature on the radial distribution function of atoms in lead-silicate glass of the composition 2SiO<sub>2</sub>.PbO using X-ray data in the range 773-973 K, which were obtained on a Siemens D500 X-ray diffractometer with a high-temperature Anton Parker HTK16N camera), and calculations using Mathematica 5.1 Wolfram Research.</p> <p><b>Results and discussion.</b> In the temperature range 773-973 K, minor changes were observed in the arrangement of atoms of the third coordination sphere, whereas in the temperature range 973-1123 K, changes occur in the first and second coordination spheres. The traditional conclusion is made that silicon atoms in glasses are surrounded by tetrahedra of oxygen atoms. This conclusion, according to the authors, correlates with a sharp increase, and then an equally sharp drop in the resistivity and thermal emf coefficient of glass of a similar composition in the temperature range of 800 - 1200 K, which was observed in the literature more than 15 years ago. Unfortunately, the volume of the brief report did not allow the authors to discuss the reproducibility and errors of the experimental results, and all the conclusions are purely descriptive.</p> <p><b>Conclusion.</b> Nevertheless, the Reviewer is inclined to conclude that it is possible to publish this work because it clearly and effectively demonstrates the picture of structural transformations of fairly simple glasses in the field of glass transition temperatures. However, in this case, the authors should provide a more detailed report on the materials used, methods of processing experimental results and mathematical calculations. We also note the presence of both Figure 1 in the article (it is taken from the literature and its description given in the text of the article is quite sufficient) and figure 2 (its presence in the article of a standard volume would be understandable, but it can be omitted in a short message). Naturally, the article must be re-examined after processing.</p>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>		
<p><b>Optional/General</b> comments</p>		

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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