

Review Form 1.7

Journal Name:	Asian Journal of Physical and Chemical Sciences
Manuscript Number:	Ms_AJOPACS_114967
Title of the Manuscript:	Tg, density and X-ray diffraction of zinc-doped bioactive glasses with molar formulation : 20.15[(2.038+x)SiO ₂ -(1.457-x)Na ₂ O]-2.6P ₂ O ₅ -26.905CaO-0.045ZnO system
Type of the Article	

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)
Compulsory REVISION comments 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u>	<p>The impact of adding zinc to silica glass has been analyzed, focusing on its effect on both the glass transition temperature and density.</p> <p>Yes</p> <p>Yes</p> <p>It would be even better if acknowledgments were added. Even if this suggestion is not added, the manuscript is still acceptable. Yes, but in the notation of glass transition temperature, the letter 'g' should be in a subscript position like this: T_g</p> <p>Yes</p> <p>None</p>	<p>Indeed, these aspects are important when engineering biomaterials. The crystalline state of engineered samples has been highlighted.</p> <p>Acknowledgements have been added to the basic manuscript.</p> <p>In Tables 1 and 2, commas have been replaced by periods. The letter "g" in T_g has been subscripted throughout the manuscript.</p>
Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications?	<p>Yes</p>	
Optional/General comments	<p>1. If future benefits are added, I think the work will become more relevant. 2. The relationship between T_g and density appears to be inverse. Therefore, a suggestion for future work could be to investigate and potentially highlight any missing links between T_g and density, which could be added to the manuscript.</p> <p>Note: the manuscript is acceptable.</p>	<p>1. The aim here is to highlight the thermal characteristics of zinc-doped glasses. 2. This study was carried out to investigate the influence of Zn addition on the density and T_g of zinc-doped bioactive glasses compared with zinc-free bioactive glasses.</p>

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PART 2:

	Reviewer's comment	Author's comment <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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	