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| Book Name: | **Proceedings of the 8th International Conference on Solidification and Gravity** |
| Manuscript Number: | **Ms\_BPR\_3590.7** |
| Title of the Manuscript: | **Solidification Kinetics of Zr-Cu-based Alloys: Experiments on the Ground and in Microgravity** |
| Type of the Article | **BOOK CHAPTER** |

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| PART 1: Review Comments | | |
| Compulsory REVISION comments | Reviewer’s comment | Author’s Feedback*(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.** | This manuscript presents pioneering research on the solidification kinetics of Zr-Cu-based alloys, conducted in both ground-based and microgravity environments. The findings of this study are crucial for advancing our understanding of the complex solidification processes in these alloys, which are essential for developing novel materials with enhanced properties. By exploring the effects of microgravity on solidification kinetics, this research opens up new avenues for materials scientists and engineers to design and optimize alloys for a wide range of applications, from aerospace to biomedical industries. Ultimately, this manuscript contributes significantly to the scientific community by providing valuable insights into the fundamental mechanisms governing solidification in Zr-Cu-based alloys. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **YES** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **YES** |  |
| **Are subsections and structure of the manuscript appropriate?** | **YES** |  |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimumof 3-4 sentences may be required for this part.** | **NO correction** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **YES** |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | GOOD |  |
| Optional/Generalcomments | NO COMMENTS |  |

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| **PART 2:** | | |
|  | **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** | |
| Name: | **Dayanand M.Goudar** |
| Department, University & Country | **Tontadarya College of Engineering, India** |