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| Book Name: | **Proceedings of the 8th International Conference on Solidification and Gravity** |
| Manuscript Number: | **Ms\_BPR\_** **3590.9** |
| Title of the Manuscript: | **Numerical study on the effect of convection on grain growth structure** |
| 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 minimum of 3-4 sentences may be required for this part.** | This manuscript discusses the numerical study on the effect of convection  on grain growth structure. It provides valuable information on the structure of grain growth caused by convective effect in metal droplet, evaluated using numerical simulation method. |  |
| **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. | **Abstract need to be improved to state the problem statement, explicit method of analysis and quantitative results obtained**. The stated results are qualitative, not quantitative. |  |
| **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 minimum of 3-4 sentences may be required for this part.** | This manuscript appears to be scientifically robust and technically sound based on the presented data and analysis of the grain structure. The author(s) provided detailed information on the effect of convection on grain growth structure. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The refences are insufficient (See comment in manuscipt)**. More literature should be added to give substantial information of the effect of convection on grain groth structure as reported by other researchers. |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | **The language/English quality of the article suitable for scholarly communications** |  |
| Optional/General comments | Tables 1, 2, & 3 are calculation parameters obtained from a source and do not constitute RESULT of your study. These Tables could better placed in Section 2.2. (See comment in manusrcipt)  Results should also be stated quantitatively. |  |

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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: | **Michael Niame Nwigbo** |
| Department, University & Country | **Kenule Beeson Saro-Wiwa Polytechnic, Nigeria** |