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| Book Name: | [**Chemical and Materials Sciences: Research Findings**](https://www.bookpi.org/bookstore/product/chemical-and-materials-sciences-research-findings-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6099** |
| Title of the Manuscript: | **Post-Processing Heat Treatment of LPBF 316L Steel: Influence on Mi-crostructure-Properties Evolution** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journals.**

**Materials, 18(5), 1102, 2025.**

**Available:** [**https://doi.org/10.3390/ma18051102**](https://doi.org/10.3390/ma18051102)

**Materials, 15(6), 684, 2025.**

**Available:** [**https://doi.org/10.3390/met15060684**](https://doi.org/10.3390/met15060684)

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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. A minimum of 3-4 sentences may be required for this part.** | **This is Novel approach regarding Material Science & Metallurgy applications of a components fabricated using LPBF technique and in this chapter they have explained microstructural features in a explicitly in order to understand thermal mechanisms which influences on material properties in terms of changes in the structural characteristics.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes it is observed to be appropriate and clear regarding the content** |  |
| 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. | **Allowable and essential keywords are only utilised** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes it is scientifically correct** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **As you have incorporated a good n number of references they are relatedto LPBF process and Microstructure characteristics through a sophisticated equipments like EBSD,FESM etc., but for calculation of a structural parametrs like microstarin crystallite size,dislocation density by the effect of post HeatTreatment of LPBF 316L stainless steel parts, arecent publication** <https://doi.org/10.1016/j.jallcom.2025.181650> **will navigate forthis study to incorporate structuralparameters behavior. Hence we suggest you to refer this** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes its understandable manuscript for research community |  |
| Optional/General comments | No |  |

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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)* |  |

**Reviewer details:**

**Praveena. S, Annamacharya Institute ofTechnology and Sciences, India**