

JOURNAL OF INTELLIGENT MANUFACTURING AND ADVANCED MATERIALS

Manuscript Template

TITLE OF THE MANUSCRIPT

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ABSTRACT

The abstract should provide a concise summary of the manuscript, including the research background, objective, methodology, major findings, and principal conclusions. The abstract should be self-contained and should not contain references, equations, or undefined abbreviations.

Recommended length: 150–250 words.

Keywords: Intelligent Manufacturing; Advanced Materials; Additive Manufacturing; Artificial Intelligence; Smart Manufacturing; Materials Processing; Industry 4.0.

1. INTRODUCTION

The introduction should provide the background and context of the research, explain the research problem, summarize relevant previous studies, identify the research gap, and clearly state the objectives and significance of the present work.

Authors should use appropriate and recent references to establish the scientific basis of the study.

2. LITERATURE REVIEW / RELATED WORK

This section should discuss relevant previous research and critically evaluate existing approaches, technologies, methodologies, and findings related to the research topic.

The literature review should clearly establish the research gap addressed by the present study.

3. MATERIALS AND METHODS

3.1 Materials

Describe the materials, compositions, grades, properties, suppliers, and relevant specifications used in the study.

3.2 Experimental Setup

Provide details of the equipment, instruments, machines, processing conditions, and experimental configuration.

8. REFERENCES

References should be listed at the end of the manuscript and cited consistently throughout the text.

Journal Article

Author(s). Title of article. *Journal Name*. Year; Volume (Issue): Page–Page. DOI.

Example:

Singh A, Kumar R, Sharma P. Advanced materials processing for intelligent manufacturing applications. *Journal of Manufacturing Science and Engineering*. 2025;147(3):031005. <https://doi.org/xxxxx>

TABLES

Tables should be numbered consecutively according to their order of appearance in the manuscript.

Table 1. Experimental parameters used in the study.

Parameter	Unit	Value
Processing speed	mm/min	XX
Rotational speed	rpm	XX
Temperature	°C	XX
Load	N	XX

Tables should be cited in the manuscript as **Table 1**, **Table 2**, etc.

FIGURES

Figures should be numbered consecutively according to their order of appearance.

Figure 1. Schematic representation of the experimental setup.

Figures should be clear, high-resolution, and appropriately labelled. All symbols, abbreviations, axes, legends, and units should be clearly defined.

Figures should be cited in the manuscript as **Fig. 1**, **Fig. 2**, etc.

EQUATIONS

Equations should be numbered consecutively.

For example:

[=]

where:

σ = stress (MPa)

F = applied force (N)

A = cross-sectional area (mm²)

Equations should be referred to in the text as **Eq. (1)**.

ABBREVIATIONS

Define abbreviations at their first occurrence in the manuscript.

Example:

Scanning Electron Microscopy (SEM)

X-ray Diffraction (XRD)

Artificial Intelligence (AI)

Additive Manufacturing (AM)

AUTHOR INFORMATION

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MANUSCRIPT SUBMISSION CHECKLIST

Before submission, authors should ensure that:

- ☐ The manuscript is original and has not been published elsewhere.
 - ☐ The manuscript is not under consideration by another journal.
 - ☐ All authors have approved the final manuscript.
 - ☐ The manuscript follows the journal's formatting requirements.
 - ☐ All figures and tables are properly numbered and cited.
 - ☐ All references cited in the text are included in the reference list.
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GENERAL FORMATTING GUIDELINES

File format: Microsoft Word (.docx)

Recommended page size: A4

Font: Times New Roman

Main text: 12 pt

Title: 16 pt, Bold

Section headings: 12 pt, Bold

Line spacing: 1.15

Text alignment: Justified

Margins: 2.5 cm on all sides

Page numbers: Consecutive page numbering

Figures: High-resolution and editable where possible

Tables: Editable, not inserted as images

Units: SI units should be used wherever applicable.

Language: English
