



# JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY

Official Publication of the [Brazilian Metallurgical, Materials and Mining Association](#)

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### DESCRIPTION

The *Journal of Materials Research and Technology* is a publication of ABM - Brazilian Metallurgical, Materials and Mining Association - and publishes four issues per year also with a free version online ([www.jmrt.com.br](http://www.jmrt.com.br)). The journal provides an international medium for the publication of theoretical and experimental studies related to Metallurgy, Materials and Minerals research and technology. Appropriate submissions to the *Journal of Materials Research and Technology* should include scientific and/or engineering factors which affect processes and products in the Metallurgy, Materials and Mining areas. The journal does not seek or publish non technical or scientific papers or papers on case studies concerning optimization of equipments, processes and others where the technical or scientific content on the report is not heavily present. The journal accepts manuscripts for publication in the following categories: Original Articles, Review Articles, Short Communications and Letters. The editorial board strongly recommends that prospective authors access the online version and analyze the published articles as a model for preparation of their papers.

### AUDIENCE

Engineers and researchers working in subjects related to Metallurgy, Materials and Minerals research and technology.

### IMPACT FACTOR

2016: 2.359 © Thomson Reuters Journal Citation Reports 2017

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## GUIDE FOR AUTHORS

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### INTRODUCTION

#### *Aims and Scope*

The *Journal of Materials Research and Technology* (JMRT) is a publication of ABM – Brazilian Metallurgical, Materials and Mining Association. The journal provides an international medium for the publication of theoretical and experimental studies related to Metallurgy, Materials and Minerals research and technology.

Appropriate submissions to the JMRT should include scientific and/or engineering factors which affect processes and products in the Metallurgy, Materials and Mining areas. The journal does not seek or publish non-technical or scientific papers or papers on case studies concerning optimization of equipments, processes and others where the technical or scientific content on the report is not heavily present.

The journal publishes four issues per year and is available online at <http://www.jmrt.com.br>.

The journal accepts manuscripts for publication in the following categories: Original Articles, Review Articles, Short Communications and Letters. The editorial board strongly recommends that prospective authors access the online version (<http://www.jmrt.com.br>) and analyze the published articles as a model for preparation of their papers.

#### **Audience**

Engineers and researchers working in subjects related to Metallurgy, Materials and Minerals research and technology.

#### *Types of Contributions*

*Original Articles:* A full-length article describing original research. It should not exceed 10 pages in length.

*Review Articles:* Reviews summarize studies on a specific subject by introducing the author's own opinions concerning recent progress and future prospects to give a balanced assessment. It should be normally no longer than 12 pages. Submission of review articles could be done by invitation or voluntary proposal.

*Short Communications and Letters to the Editor:* Could be (i) an article on a new finding or an interesting aspect of an ongoing study that merits prompt preliminary publication in condensed form; (ii) a medium for the presentation of new research and techniques; (iii) topics, opinions, or proposals that would be of interest to the readers; and (iv) criticisms or additional proofs and interpretations in connection with articles previously published in the institute journals. It must be no longer than 4 pages.

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One author has been designated as the corresponding author with contact details:

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- Ensure all figure and table citations in the text match the files provided
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*Graphical Abstracts / Highlights files* (where applicable)

*Supplemental files* (where applicable)

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### *Taxonomy*

#### Materials

- Microstructure characterization;
- Phase transformation;
- Materials testing: fatigue, creep, torsion and related subjects;
- Heat treatment;
- Corrosion;
- Chemical analysis;
- Coating.

#### Processing

- Process metallurgy: direct reduction, ironmaking, steelmaking, secondary metallurgy, casting;
- Metal forming: near net shape casting/shaping, rolling, sheet metal forming, drawing, forging, joining .

#### Minerals

- Extraction;
- Treatment;
- Disposal and remediation.

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This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. [More information on types of peer review.](#)

## **PREPARATION**

Use of word processing software

It is important that the file be saved in the native format of the word processor used. Text must be in a single-column format, typed in Arial, font size 12 pt, using 1.0 spacing on a A4 (21 x 29,7 cm) paper. Leave a 2.5-cm margin on all sides. Keep the layout of the text as simple as possible. Most formatting

codes will be removed and replaced on processing the article. In particular, do not use the word processor's options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier: <http://www.elsevier.com/guidepublication>). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.

To avoid unnecessary errors you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

### **Article structure**

The manuscript file should have the following structure: Title, Abstract, Keywords, Main text (divided in Introduction, Methods, Results, Discussion, and Conclusions), and References. Acknowledgements and Appendices are optional and should stay in a separate section at the end of the text, before References. Figures and Tables should be sent in separate files, with the respective title, legends, and captions. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

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Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

### **Essential title page information**

- **Title.** Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible.
- **Author names and affiliations.** Indicate the name of each author. Where the family name may be ambiguous (e.g., a double name), please indicate this clearly. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the affiliation, including department/laboratory, institution/university, city, state and the country name and, if available, the e-mail address of each author.
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### **Abstract**

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### **Keywords**

Immediately after the abstract, provide a maximum of 6 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

### **Abbreviations**

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### *Acknowledgements*

Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

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### *Math formulae*

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Refer to the following examples for the proper format:

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» Until six authors (list all authors): Elnenaey A, Shastry CR. Analysis of edge buildup on aluminized steel strip using computational fluid dynamics (CFD) and metallography. *Iron and Steel Technology*. 2011;8(8):90–6.

» More than six authors (list the first six followed by "et al"): Leng B, Ukai S, Sugino Y, Tang Q, Narita T, Hayashi S, et al. Recrystallization texture of cold-rolled oxide dispersion strengthened ferritic steel. *Isij International* 2001; 51(6):951–7.

» From the internet: Oluyemi DO, Oluwole OI, Adewuyi BO. Studies of the properties of heat treated rolled medium carbon steel. *Materials Research [Internet]* 2011; [cited 2011 Sep 8];14(2):135–41. Available from: [http://www.scielo.br/pdf/mr/v14n2/AOP\\_0471-10.pdf](http://www.scielo.br/pdf/mr/v14n2/AOP_0471-10.pdf)

• Conferences

» Paper: Hiraoka Y, Inoue K. Effect of alloy elements on nitrogen distribution in hot-work tool steels after nitriding. In: The Japan Society for Heat Treatment, organizer. *Proceedings of the 17th IFHTSE Congress; 2008 Oct 27–30; Kobe, Japan. (Netsu Shori; vol. 49, special issue)*. p. 57–60.

» Proceedings in journal:

The Japan Society for Heat Treatment, organizer. *Proceedings of the 17th IFHTSE Congress; 2008 Oct 27–30; Kobe, Japan. (Netsu Shori; vol. 49, special issue)*.

• Books

» Until six authors (list all authors):

Ashby M, Shercliff H, Cebon D. *Materials, engineering, science, processing and design*. 2nd. ed. Oxford: Butterworth-Heinemann; 2010.

» No author:

*The Oxford dictionary of computing*. 5th ed. Oxford: Oxford University Press; 2003.

» Editor:

Lišćic B, Tensi HM, Canale LCF, Totten GE, editors. *Quenching theory and technology*. 2nd. ed. Boca Raton: CRC; 2010.

• Books chapter

» Author's chapter is the same of the book:



Ashby M, Shercliff H, Cebon D. *Materials, engineering, science, processing and design*. 2nd. ed. Oxford: Butterworth-Heinemann; 2010. Chapter 6, Beyond elasticity: plasticity, yielding and ductility, p. 111-39.

» Author's chapter are different of the author's book: Canale LCF, Totten GE. Hardening of steels. In: Lišćic B, Tensi HM, Canale LCF, et al., editors. *Quenching theory and technology*. 2nd. ed. Boca Raton: CRC; 2010, p. 1–41.

- Homepage ABM – Associação Brasileira de Metalurgia, Materiais e Mineração [homepage on the internet]. São Paulo: ABM, 2011 [cited 2011 Sep 8]. Available from: <http://www.abmbrasil.com.br/>

- E-Books

Bass L, Clements P, Kazman R. *Software architecture in practice*. 2nd. ed. Reading, MA: Addison Wesley, 2003. [E-book] Available at: Safari e-book.

- Thesis and dissertations Seshadri V. Measurement of dihedral angle in Pb-Fe alloys [M.Sc. dissertation]. Bangalore: Indian Institute of Science; 1959

#### *Data references*

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» [dataset] [5] Oguro M, Imahiro S, Saito S, Nakashizuka T. Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1; 2015. <http://dx.doi.org/10.17632/xwj98nb39r.1>.

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#### *Examples:*

Reference to a journal publication:

[1] Van der Geer J, Hanraads JAJ, Lupton RA. The art of writing a scientific article. *J Sci Commun* 2010;163:51–9.

Reference to a book:

[2] Strunk Jr W, White EB. *The elements of style*. 4th ed. New York: Longman; 2000.

Reference to a chapter in an edited book:

[3] Mettam GR, Adams LB. How to prepare an electronic version of your article. In: Jones BS, Smith RZ, editors. *Introduction to the electronic age*, New York: E-Publishing Inc; 2009, p. 281–304.

Reference to a website:

[4] Cancer Research UK. Cancer statistics reports for the UK, <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>; 2003 [accessed 13.03.03].

Reference to a dataset:

[dataset] [5] Oguro M, Imahiro S, Saito S, Nakashizuka T. Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1; 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

Note shortened form for last page number. e.g., 51–9, and that for more than 6 authors the first 6 should be listed followed by 'et al.' For further details you are referred to 'Uniform Requirements for Manuscripts submitted to Biomedical Journals' (J Am Med Assoc 1997;277:927–34) (see also [Samples of Formatted References](#)).

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