

Author Guide

About the Journal

Mining and Metallurgy publishes content covering disciplines such as geology, mining, mineral processing, metallurgy, environmental protection, and materials. It features columns including Mine Geology, Mining and Safety, Mineral Processing and Process Mineralogy, Metallurgy and Materials, and Environmental Science and Engineering. The journal highlights academic progress in areas such as green mining and metallurgy, digitalization and intelligence in mining and metallurgical processes, comprehensive utilization of solid waste resources in mining and metallurgy, and environmental protection, with a particular focus on interdisciplinary fields. It publishes 6 issues per year. Suggested research and application areas include, but are not limited to:

- **Theoretical Research:** Foundational theories, academic mechanisms, and theoretical explorations and academic progress in cutting-edge directions within the fields of minerals, metallurgy, materials, and environmental protection.
- **Process Research:** Process optimization in mining, mineral processing, metallurgy, environmental protection, and technological research in material preparation and processing.
- **New Materials:** Research and development, performance studies, and application exploration of various materials.
- **Production Practice:** Practical production technologies, engineering applications, and practical experience in mining, mineral processing, smelting, and other areas within the mining and metallurgy industry.
- **Artificial Intelligence and Information Technology:** Technological applications of intelligent manufacturing and intelligent mining in the

mining and metallurgy industry, and research on the integrated practice of information technology.

Submission Instructions

Submission implies that the research results described in the manuscript have not been previously published, are not under consideration for publication elsewhere, and that all co-authors (if any) and the responsible parties at the institution where the work was carried out (implicitly or explicitly) have consented to publication. The publisher assumes no legal liability for any claims arising therefrom.

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Manuscripts should be submitted online via the journal's official website (<https://ky.bgrimm.cn/>). Complete submission guidelines and online submission process instructions are available on the general submission site. Please ensure submission of all relevant editable source files (in MS Word format), including the main text, figures, tables, and supplementary materials. Failure to submit source files may delay the review and publication process.

To expedite the review process, authors are requested to recommend at least two potential reviewers, ensuring that the recommended reviewers have not recently collaborated with or been closely associated with the authors. A cover letter is recommended for each manuscript, summarizing the research findings and innovation, preferably listing the research highlights in bullet points.

Article Types

Research Article

Approximately 7–10 pages, approximately 5,000 words (excluding references), with no more than 10 display items (e.g., figures, tables, flowcharts), and no fewer than 15 references. Research articles are peer-reviewed, in-depth research reports presenting findings of outstanding novelty and significant general interest to experts in other fields. The introduction should outline the research background and the main conclusions reached. The experimental section should provide sufficient detail (e.g., key materials, procedures, and measurement methods) to enable others to replicate and compare the study. This is followed by the results and discussion section. The conclusion should summarize the core findings of the paper. A brief abstract of at least 200 words and no fewer than 5 keywords are also required. Manuscripts may be accompanied by supplementary materials (e.g., figures, tables, experimental details, videos), which will be published online only and will not be copyedited; they must be accurate.

Letter

Approximately 4–6 pages, approximately 2,500 words (excluding

references), with no more than 4 display items, and no fewer than 15 references. Letters are unsolicited, peer-reviewed brief reports presenting findings of outstanding novelty and significant general interest to experts in other fields. The core research content must stand alone without supplementary materials. The first paragraph should summarize the research background and main conclusions, while the final paragraph should summarize the core findings of the paper. The findings reported in a Letter must be novel and not previously published. Manuscripts may be accompanied by supplementary materials (e.g., figures, tables, experimental details [which may be presented either in the main text or supplementary materials], videos), which will be published online only and will not be copyedited; they must be accurate.

Review

8,000–10,000 words, divided into appropriate sections, with 15–20 display items, and no fewer than 30 references. Reviews are peer-reviewed overviews of a field, intended to inform readers of the importance of the research area, summarize recent advances, and provide guidance to the literature. The introduction should introduce the topic in a clear manner accessible to non-specialist readers. The review must conclude with a "Summary and Outlook" section that concisely discusses achievements and new challenges in the field. A brief abstract of at least 150 words and no more than 6 keywords are also required.

Perspective

Approximately 2–3 pages, approximately 1,500 words, with no more than 2 display items, and no more than 15 references. Perspectives are concise reports on recent hot-button research topics of interest to nonferrous metals materials scientists globally. They may discuss scientific

breakthroughs or interpret significant technology and funding policies. They may contextualize the findings within the field or explain their potential interdisciplinary value. Perspective articles may have no more than two authors.

Authorship

Authorship should be limited to those who have made a significant contribution to the research work. Each author must be accountable for the data and arguments presented in the paper. Author contributions should be clearly stated in the manuscript. The corresponding author must ensure that submission of each version of the manuscript and any changes to authorship are authorized by all co-authors. Furthermore: authorship changes (including affiliations, order of authorship, addition or deletion of authors) are not permitted after manuscript acceptance; requests to add or remove authors during the revision stage or after publication are serious matters and will only be considered upon receipt of written consent from all authors and a detailed explanation of the role of the added/removed author and the reason for removal; the final decision on whether to accept the change rests with the Editor-in-Chief. Upon request, authors should be prepared to provide relevant documentation or data to verify the authenticity of the research results.

Authorship and co-authorship should be based on substantial intellectual contributions. All named authors are deemed to have made significant contributions to the paper published under their names. Therefore, the author list carries multiple implications: it indicates responsibility for the research work and identifies points of contact for academic inquiries. Furthermore, the scholarly credit associated with authorship is often used

as a measure of researcher productivity and serves as an important basis for employment, promotion, funding, and awards.

1. Authorship qualification must meet all of the following criteria:
 - Made substantial intellectual contributions to the theoretical development, system or experimental design, prototype development, and/or data analysis and interpretation of the work contained in the article;
 - Participated in drafting the article and/or critically reviewing and revising it for intellectual content;
 - Approved the final version of the article (including references) and agreed to publication.

Deceased scholars who meet the criteria may be included as authors, with a footnote indicating the date of death.

2. For multi-authored articles, the order of authors is determined by mutual agreement among the authors.

3. Once the author list and order are finalized, changes cannot be made without the consent of all living authors of the article. Changes to the author list are rare exceptions, and whether a change is permitted is decided by the responsible editor. This excludes requests by authors to change their own name.

4. Each author must assume responsibility for at least one key aspect of the research presented in the article.

5. For multi-authored articles, one author must be designated as the "corresponding author" responsible for overseeing the publication process

and ensuring the integrity of the final file. The corresponding author assumes the following responsibilities:

- Ensuring that all appropriate contributors are listed as co-authors and that no inappropriate individuals are included;
- Obtaining consent from all co-authors to be listed as authors and to approve the final version of the article;
- Promptly informing all co-authors of the manuscript's submission status, including providing copies of reviewer comments and the published version in a timely manner.

6. Co-authors are accountable for the work submitted under their names. They should be as familiar as possible with the content and status of the article, including the nature of any revisions.

7. If a manuscript is resubmitted to the same journal after revision, the corresponding author should consult with co-authors to reconfirm their consent to be listed as authors and to approve the revised version.

8. Co-authors added at any stage of the review process or when submitting the final version of the article must meet the authorship requirements specified on the journal's website, and the corresponding author must notify the responsible editor regarding the addition of the co-author.

9. Co-authors have the right to withdraw their authorship at any time before the article is accepted by the editor. The corresponding author must notify the responsible editor regarding the removal of a co-author.

Author Responsibilities

1. Authors should prioritize the initial formal publication of their research findings through peer-reviewed academic journals.
2. The manuscript must clearly acknowledge financial support received for the research work and authors, and disclose any potential conflicts of interest.
3. Research methods and materials should be described in sufficient detail to ensure assessability and reproducibility.
4. Upon request from the editor, authors should provide all raw data to assist with the review process.
5. Upon submission, authors must declare whether the manuscript has been previously published or is under consideration by another journal. If submitted elsewhere during the review period, the journal must be informed immediately.
6. Upon submission, if the research involves human or animal subjects, authors must state this and comply with the journal's relevant ethical requirements (see details below).
7. Any form of plagiarism, fabrication, or falsification of data is strictly prohibited.
8. Submitted work must be original, unpublished, and not simultaneously submitted to other journals. If a new manuscript is based on the author's previously published work, the original work must be cited, and the substantial novelty of the new manuscript must be briefly explained.
9. During the manuscript review process, authors must not discuss the manuscript with reviewers.
10. References should only list published works directly related to the manuscript's topic. If citing works that are under review or accepted but

not yet published, they should be labeled as "submitted" or "accepted," respectively.

11. If using figures, tables, photographs, or other copyrighted graphic materials, authors are responsible for obtaining written permission for their use.

12. After final acceptance, the corresponding author should submit the final version for publication along with any supplementary materials. If any substantive changes (including additions or deletions of references) are needed for the accepted manuscript during the final publication stage, the responsible editor must be informed in writing, and the editor will decide whether re-review is necessary. Failure to notify may be considered academic misconduct.

Peer Review Policy

All submitted manuscripts undergo editorial review and/or peer review. Direct acceptance after initial assessment is rare and occurs only in exceptional cases. If a manuscript lacks novelty, contains significant scientific flaws, requires substantial improvement in language expression, or does not align with the journal's aims and scope, the editor will reject it during the initial screening. All other manuscripts likely to be of interest to readers will enter the formal review process, typically reviewed by at least two reviewers. Additionally, the editor may include additional reviewers as needed. The editor will decide whether to accept, reject, or request revisions based on the received review comments. The journal operates a single-blind review system. Reviewer selection is based on multiple factors, including area of expertise, academic reputation, specific recommendations, and the journal's knowledge of the reviewer's past performance. Author-recommended reviewers will only be considered if

no other suitable reviewers can be identified. Reviewer identities are kept confidential from authors and other reviewers. The journal maintains a policy where reviewers remain anonymous throughout and after the review process.

Manuscript Preparation Guidelines

To ensure manuscripts meet the journal's requirements, authors are requested to pay special attention to the following points when preparing submissions for *Mining and Metallurgy*:

Manuscripts should be well-structured and concise, avoiding redundant figures and tables. Authors are encouraged to use internationally standard naming conventions, and all measurement data must use the International System of Units (SI). The journal provides a dedicated submission template, which authors can download from the submission login page (<https://ky.bgrimm.cn/>). If authors choose not to use the template, the manuscript should be formatted as follows: use 12-point Times New Roman font throughout, single-column layout, justified alignment, and 1.5 line spacing. Please prepare two files (if applicable): one main file (containing the main text and all figures/tables inserted within the text) and a separate supplementary materials file (if any).

Language

The language of this journal is Chinese. We require correction of language prior to submission. Submissions with unqualified Chinese will not be reviewed.

Headings/Section Levels (Numbering)

For articles, please use a decimal system for headings with no more than three levels. Example:

Introduction

1 Experiment

2 Results and Discussion

2.1...

2.2...

3 Conclusion

References

Placing the methods section at the end of the text is acceptable. For short articles, having no section levels is acceptable.

Title Page

The title page should include:

- A concise and clear title (no non-standard abbreviations or acronyms, typically no more than 20 words and no more than 3 lines; use title case; avoid terms like "Effect of," "Study on," etc.).
- Author names (full names, format: WANG Xiaoer; up to two corresponding authors, who should hold senior professional positions; generally no more than 8 authors).
- Author affiliations: institution, (department), city, (state), postal code, country.
- Clear indication of the corresponding author (marked with an asterisk) and a valid email address.
- If registered, the 16-digit ORCID identifier of the corresponding author.

Abstract

It should be a single paragraph of 150–500 words, concisely describing the main findings reported in the manuscript and understandable to readers who have not read the full paper. The abstract should not contain any undefined abbreviations or unspecified citations. It should present the motivation for the work, the methods employed, the results obtained, and the conclusions drawn. Please note that background information should not exceed one-third of the abstract length.

The English abstract should be consistent with the Chinese abstract in principle, but to enhance the article's dissemination, it is recommended that the English abstract include more details on the core research content, with a length of 600–800 words.

Keywords

Five to eight keywords should be provided for indexing purposes. The use of measurement methods and formulas is generally not recommended.

Section Headings

For "Research Articles," "Reviews," and "Mini-Reviews," please use a decimal numbering system for headings with no more than three levels, and all headings should be numbered.

Introduction

The introduction should briefly explain the research background (without providing a comprehensive review of the entire field), state the purpose of the study, and summarize the main findings, allowing readers unfamiliar

with the field to understand the significance of the results. Relevant references should be cited. Please avoid using subheadings within the introduction.

Experimental

This section should provide sufficient detail to allow others to replicate and compare the study. Only genuinely novel experimental methods or operational procedures need to be detailed. For theoretical papers, key technical details such as computational models should also be concentrated in a correspondingly named section.

Results and Discussion

In academic papers, the "Results and Discussion" section can be presented either combined or separately. This section should clearly and logically present the main observations and core conclusions of the study, discussing their significance in the context of historical background and future prospects. Research hypotheses or theories based on solid evidence may be proposed here. It is recommended to use informative subheadings in this section.

Conclusion

The conclusion should differ from the abstract and summarize the main conclusions of the paper in a single paragraph. These conclusions should be self-contained.

Author Contributions (Optional)

Authors are required to include a statement of responsibility in the

manuscript detailing the contributions of each author.

References

Only published works or works appearing in press (with DOI if available) from journals and books should be cited in the reference list. Citations are indicated in the text by numbers in square brackets at appropriate positions (preceding punctuation like periods, commas, etc.), set as superscripts. For cited works, list the first three authors; subsequent authors should be indicated by "et al." The full title of the cited work is required (sentence case). For cited articles and book chapters, include the publication year, volume (issue) number, and starting page number. If the cited article lacks page numbers, provide the DOI. Research articles and Letters should contain at least 30 references, Mini-Reviews at least 60 references, and Reviews at least 100 references.

Reference examples are as follows:

(1) Journal

[1] LI L, BIAN Y F, ZHANG X X, et al. Economical recycling process for spent lithium-ion batteries and macro- and micro-scale mechanistic study[J]. *Journal of Power Sources*, 2018, 377: 70-79.

[2] WEN Y P, HE X H, DI S, et al. Comparative of malonic acid aqueous solution and malonic acid-based deep eutectic solvent for LiCoO₂ cathode materials recovery: leaching efficiency and mechanism[J]. *Journal of Environmental Chemical Engineering*, 2023, 11(5): 110979. DOI:10.1016/j.jece.2023.110979.

[3] SI J F, LI B L. Study on comprehensive utilization of low-grade laterite nickel ore based on atmospheric acid leaching[J]. *China Resources Comprehensive Utilization*, 2023, 41(9): 5-8, 12.

(2) Book

[4] ZHANG Y. Sub-molten salt technology-cleaner production and efficient resource utilization[M]. Beijing: Chemical Industry Press, 2016.

(3) Patent

[5] TAN R H, LIU Z L, WANG H H, et al. An oxygen pressure leaching method for nickel sulfide concentrate: CN202110489660.0[P]. 2022-03-29.

(4) Conference Proceedings (including monographs, conference proceedings, manuals, etc.)

[6] HE X J, GUAN J F, CHEN Z Q, et al. Research on inclusions of gangue quartz ore in Xingtai Area, Hebei Province[C]// Proceedings of the 2018 China Non-metallic Minerals Science and Technology and Market Exchange Conference. Datong, 2018: 197-202.

(5) Dissertation

[7] Bai M M. Experimental study of nickel sulfide ore direct pressure leaching[D]. Xi'an: Xi'an University of Architecture and Technology, 2016.

Abbreviations

Abbreviations should be used only when necessary. They must be defined separately in the abstract and the main text upon first use and used consistently thereafter.

Units

The journal requires the use of the International System of Units (SI) throughout the manuscript. Non-SI units such as ppm, Å, Oe, emu, sccm, pct, M, etc., are not permitted. Derived units should follow specific formatting norms (e.g., use $\text{m}\cdot\text{s}^{-1}$ instead of m/s).

Integrity of Research and Reporting

Ethical Standards

Mining and Metallurgy adheres to recognized publication ethics standards (COPE guidelines), continuously strengthening industry self-discipline, promoting academic integrity, and improving long-term development mechanisms. This statement is formulated with reference to the publication ethics standards of internationally renowned publishing groups. It primarily outlines the journal's policies and systems regarding publication ethics, aiming to provide a reference for various parties, including authors, academic communities, editors, research funders, and readers.

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The journal encourages authors to deposit data supporting their research findings in public repositories whenever possible and applicable, such as the Science Data Bank (<https://www.scidb.cn/c/j00269>). General-purpose repositories for all types of research data, such as figshare and Dryad, may also be used. Datasets assigned a Digital Object Identifier (DOI) by a data repository can be cited in the reference list. Data citations should include the minimum information recommended by DataCite: author, title, publisher (repository name), and identifier.

After Manuscript Acceptance

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After online publication, further changes can only be made in the form of an erratum/correction, which will be hyperlinked to the article.

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