

# Introduction

**Atom Indonesia (AI)** is an international open access journal providing an authoritative source of scientific information for researchers and engineers in academia, research institutions, government agencies, and industries. We publish original research papers and case studies. The scope of this journal covers experimental and analytical research in nuclear science and technology. The topics include nuclear physics, reactor physics, radioactive waste, fuel element, radioisotopes, radiopharmacy, radiation, and neutron scattering, as well as their utilization in agriculture, industry, health, environment, energy, material science and technology, and related fields. AI is published and imprinted by National Research and Innovation Agency (BRIN) and managed to be issued third in every volume.

## Article criteria

Editors will judge submissions on the following criteria:

- Aim/scope of the submission is clearly defined
- Scientifically relevant methodologies used and adequately described
- Novelty and scientific impact will also be considered
- Results of interest to a particular niche/broad community and have not been published previously
- Conclusions are supported by the presented data
- Submission is well written and logically constructed

## Ensure that the following items are present

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

- E-mail address
- Full postal address

Further considerations

- Manuscript has been 'spell checked' and 'grammar checked'
- All references mentioned in the Reference List are cited in the text, and vice versa
- Journal policies detailed in this guide have been reviewed
- Referee suggestions and contact details provided, based on journal requirements

# Things to do before submission

## Ethics in publishing

Please see our information pages on [Publication Ethics and Malpractice Statement](#) for journal publication.

## Authorship

All authors should have made substantial contributions to all of the following:

1. The conception and design of the study, or acquisition of data, or analysis and interpretation of data
2. Drafting the article or revising it critically for important intellectual content

## List of Authors

- Authors must provide a complete and definitive list of authors during the initial manuscript submission, especially in the submission metadata. If the manuscript is submitted with a single name, it will be assumed to be a single-author paper.

- The list of authors must be finalized before the review process begins. Any changes to authorship during the review process require a clear and valid reason.

## Changes to authorship

Authors are expected to carefully consider the list and order of authors before submitting their manuscript and provide the definitive list of authors at the time of the original submission. The author list should be complete during the submission, especially in the submission metadata. Any addition, deletion, or rearrangement of author names in the authorship list is not permitted after acceptance. If a manuscript is submitted with only one name, it will be assumed to be a single-author paper.

The author list must be fixed before entering the review stage. Any changes to authorship during the review process must be accompanied by a clear reason.

To request a change before acceptance, the Editor must receive the following from the corresponding author:

1. The reason for the change in the author list.
2. Written confirmation (e-mail, letter) from all authors that they agree with the addition, removal, or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed.

Only in exceptional circumstances will the Editor consider the addition, deletion, or rearrangement of authors after the manuscript has been accepted. While the Editor considers the request, publication of the manuscript will be suspended.

If the manuscript has already been published in an online issue, any requests approved by the Editor will result in a Correction Notice accompanying the manuscript.

### Changes to Corresponding Author

Changes to the corresponding author should be avoided after submission. If a change is necessary, the new corresponding author must be agreed upon by all authors and requested with a clear rationale and written consent from all authors. Changes after acceptance will only be considered in exceptional circumstances and will require a correction notice if approved.

The new corresponding author must take over all responsibilities of the previous corresponding author, including managing ongoing communication with the journal and keeping all authors informed about the manuscript's status.

## Language

Please write your text in good English (American or British usage is accepted, but not a mixture of these). Every article accepted by AI shall be an object to Grammarly® writing-enhancement program conducted by AI Editorial Board.

Additionally, it is highly recommended that authors avoid using first-person narrative approach when composing their manuscript. It is crucial to steer clear of the pronouns 'we' or 'I'. The primary emphasis of the paper should be on the investigation and its findings rather than on the individuals conducting the research.

## Referees

Please submit, with the manuscript, the names, institution, addresses, and e-mail addresses of two potential referees. Suggested reviewers should have similar expertise with the topic of the paper and should not have any conflict of interest with the submitted paper or author/coauthor of the paper. Suggested reviewers should also not list as Editorial Board of AI. Note that the editors retain the sole right to decide whether or not the suggested reviewers are assigned.

## Preparing the manuscript

### Formatting requirements

Please use the author submission template available online at AI website. To use the template, kindly 'Save As' the MS Word file to your document, then copy and paste your document. To copy and paste the text into the template, please use 'Special Paste' and choose 'Unformatted Text'. Papers not prepared in accordance with author guidelines and manuscripts with number of mistakes will have to be pre-rejected by Editor.

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If your article includes any Videos and/or other Supplementary material, this should be included in your supplementary file at initial submission for peer review purposes.

Please make sure that you use as much as possible normal fonts in your documents. Special fonts, such as fonts used in the Far East (Japanese, Chinese, Korean, etc.) may cause problems during processing. To avoid unnecessary errors, you are strongly advised to use the 'spellchecker' function of MS Word.

## Section Headings

Divide your article into clearly defined and numbered sections. 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.

Heading should be made in four levels. Level five cannot be accepted.

- *Heading Level 1*; Heading 1 should be written in title case, left aligned, bold, 14 TNR, and Roman numbered followed by a dot.
- *Heading Level 2*; Heading 2 should be written title case, left aligned, bold, 12 TNR, Capital Arabic numbered followed by a dot.
- *Heading Level 3*; Heading 3 should be written title case, left aligned, italic, 12 TNR, numbered by Arabic number followed by closed bracket
- *Heading level 4*; Heading 4 is not recommended, however, it could still be accepted with the format of sentence case, left indent 5 mm, hanging indent 5 mm, italic, 12 TNR, numbered by small cap followed by a closed bracket.
- *Heading Level 5*; Heading Level 5 cannot be accepted in the manuscript.

## Article structure

The manuscript should begin with title, abstract, and keyword(s) followed by the main text. The main text should consist of at least IMRaD structure, except for the review article: Introduction, Method/Material, Result and Discussion, and Conclusion; followed by acknowledgement and References.

### Introduction

State the objectives of the work and provide an adequate background, state of the art, and should be avoiding a detailed literature survey or a summary of the results. Explain how you addressed the problem and clearly state the aims of your study.

### Materials and methods

Provide sufficient details to allow the work to be reproduced by an independent researcher. Methods that are already published should be summarized and indicated by a reference. If quoting directly from a previously published method, use quotation marks and also cite the source. Any modifications to existing methods should also be described.

A Theory section (if necessarily added) should extend, not repeat, the background to the article already dealt with in the Introduction and lays the foundation for further work. A Calculation section represents a practical development from a theoretical basis.

### Results and discussions

Results should be clear and concise. Discussion should explore the significance of the results of the work, not repeat them. Avoid extensive citations and discussion of published literature.

The following components should be covered in the discussion section: How do your results relate to the original question or objectives outlined in the Introduction section (what)? Do you provide interpretation scientifically for each of your results or findings presented (why)? Are your results consistent with what other investigators have reported (what else)? Or are there any differences?

## Conclusions

The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section. The conclusion section should lead the reader to the important matter of the paper. Suggestion or recommendation related to further research can also be added but not to confuse the research with an uncompleted work.

## 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.).

## Appendices

It is not recommended to use appendices in AI submission.

## Essential title page information

### Title

The title of the manuscript should be concise and informative, less than 15 words, title case, centered, bold. Titles are often used in information-retrieval systems. The title should be accurate, unambiguous, specific, and completely identify the main issue of the paper. Avoid abbreviations and formulae where possible.

### Author names and affiliations

Author names should not contain academic title, official rank, or professional position. Please clearly indicate the given name(s) and last/family name(s) -full name if possible- of each author and check that all names are accurately spelled. Present the authors' affiliation addresses (where the actual work was done) below the names. Write clear affiliation of all Authors. Affiliation includes name of department/unit, (faculty), the name of university/institution, complete postal address, and country. All contributing author should be shown in contribution order.

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Clearly indicate the corresponding author clearly for handling all stages of pre-publication, refereeing, and post-publication. This responsibility includes answering any future queries about Methodology and Materials. Ensure that the e-mail address is given and that contact details are kept up to date by the corresponding author.

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If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.

## Abstract and keywords

### Abstract

Abstract should be concise and factual, contains neither pictures nor tables, and should not exceed 250 words. The abstract should state briefly the purpose of the research, research materials and methods, the principal results, and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

### Graphical abstract

A graphical abstract is optional. Its use is encouraged as it draws more attention to the online article. The graphical abstract should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide

readership. Graphical abstracts should be submitted as a supplementary file in the online submission system. Image size: Please provide an image with a minimum of  $531 \times 1328$  pixels (h  $\times$  w) or proportionally more. The image should be readable at a size of  $5 \times 13$  cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. You can view Example Graphical Abstracts on our information site.

## Keywords

The keywords should be avoiding general and plural terms and multiple concepts. Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

## Instruments

### Abbreviations, Acronyms, and Units

Define abbreviations and acronyms at the first time they are used in the text, even after they have been defined in the abstract. Abbreviations such as IEEE, SI, MKS, CGS, sc, dc, and rms do not have to be defined. Do not use abbreviations in the title or heads unless they are unavoidable.

Use either SI (MKS) or CGS as primary units. (SI units are encouraged.) English units may be used as secondary units (in parentheses). An exception would be the use of English units as identifiers in trade, such as "3.5-inch disk drive." Avoid combining SI and CGS units, such as current in amperes and magnetic field in oersteds. This often leads to confusion because equations do not balance dimensionally. If you must use mixed units, clearly state the units for each quantity that you use in an equation.

Do not mix complete spellings and abbreviations of units: "Wb/m<sup>2</sup>" or "webers per square meter," not "webers/m<sup>2</sup>." Spell units when they appear in text: "...a few henries," not "...a few H." Use a zero before decimal points: "0.25," not ".25." Use "cm<sup>3</sup>," not "cc".

## Math formulae

Mathematical equation should be clearly written, numbered orderly, and should be an editable text prepared using MS Equation Editor (not in image format) and should also be separated from the surrounding text. Be sure that the symbols in your equation have been defined before or immediately following the equation. Use "(1)," not "Eq. (1)" or "equation (1)," except at the beginning of a sentence: "Equation (1) is ...". Italicize Roman symbols for quantities and variables, but not Greek symbols. Use a long dash rather than a hyphen for a minus sign.

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## Figure and table

Figure should be in grayscale, and if it made in color, it should be readable (if it later printed in grayscale). A caption should be sequentially numbered with Arabic numerals and comprise a brief title (not on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used. The lettering on the artwork should be clearly readable and in a proportional measure and should have a finished, printed size of 8 pt for normal text and no smaller than 6 pt for subscript and superscript characters. Use words rather than symbols or abbreviations when writing Figure axis labels to avoid confusing the reader. As an example, write the quantity "Magnetization," or "Magnetization, M," not just "M." If including units in the label, present them within parentheses. Do not label axes only with units. In the example, write "Magnetization (A/m)" or "Magnetization (A (m(1)," not just "A/m." Do not label axes with a ratio of quantities and units. For example, write "Temperature (K)," not "Temperature/K."

Figures should have a brief description in the main body of the manuscript. Insert figures and tables after they are cited in the text. For layouting purpose, please provide high resolution figure ( $\geq 300$  dpi) in .tif/.jpg/.jpeg. Low-quality scans are not acceptable. Figures and tables should be embedded and not supplied separately. Moreover, kindly avoid mentioning the position of figure/table e.g. “figure below” or “table as follow” because the position will be rearranged in layouting process. DO NOT put boxes around your figures to enclose them.

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## Image manipulation

Whilst it is accepted that authors sometimes need to manipulate images for clarity, manipulation for purposes of deception or fraud will be seen as scientific ethical abuse and will be dealt with accordingly. For graphical images, this journal is applying the following policy: no specific feature within an image may be enhanced, obscured, moved, removed, or introduced. Adjustments of brightness, contrast, or color balance are acceptable if and as long as they do not obscure or eliminate any information present in the original.

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General points:

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Formats

Regardless of the application used, when your electronic artwork is finalized, please 'save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):

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Please do not:

- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); the resolution is too low.
- Supply files that are too low in resolution.
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Ensure that each illustration has a caption. A caption should comprise a brief title (not on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used. figure caption of a single line must be centered whereas multi-line captions must be justified

## Tables

Please submit tables as editable text and not as images. Number tables consecutively with Arabic numerals in accordance with their appearance in the text. Place footnotes below the table body and indicate them with superscript lowercase letters. Be sparing in the use of tables and ensure that the data presented in them do not duplicate results described elsewhere in the article. Please avoid using vertical rules and shading in table cells.

## Construction of references

References are recommended using IEEE referencing style. Please ensure that every reference cited in the text is also present in the reference list (and vice versa). References should be listed at the end of the paper and numbered in the order of their appearance in the text. The template will number citations consecutively within brackets [1]. The sentence punctuation follows the bracket [2]. Refer simply to the reference number, as in [3]—do not use “Ref. [3]” or “reference [3]” except at the beginning of a sentence: “Reference [3] was the first ...”

Unpublished results and personal communications are not recommended in the reference list but may be mentioned in the text. If these references are included in the reference list, they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication. Wikipedia, personal blog, or non-scientific website is not allowed to be taken into account. Primary references should be at least 80% from at least twenty-five references. References should be taken from the late ten years.

Avoid bulk references such as [1–9]. Avoid excessive self-citations (no more than 20%). If possible, article's DOI should be given for each reference list. Note that missing data will be highlighted at proof stage for the author to correct.

## Citation in text

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Citation of a reference as 'in press' implies that the item has been accepted for publication.

## Reference formatting

There are two types of references, i.e., electronics sources and nonelectronics sources. Sample of correct formats for various types of references are as follows

- *Book*: Author, *Title*. edition, editor , City, State or Country: Publisher, year, Pages.
- *Part of book*: Author, “Title”, in *Book*, edition, editor, City, State or Country: Publisher, year, Pages.
- *Periodical*: Author, “Title”, *Journal*, *volume (issue)*, pages, month, year.
- *Proceeding*: Author, “Title”, in *Proceeding*, year, pages.
- *Unpublished paper*: Author, “Title”, presented at Conference/ event title, City, State or Country, year.
- *Patent/Standard*: Author, “Title”, patent number, month day, year.
- *Technical report*: Author, “Title”, Company, City, State or Country, Tech. Rep. Number, month, year.

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- *Periodical*: Author. (year, month). Title. *Journal*. [Type of medium]. *volume (issue)*, pages. Available: site/path/file.
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## Reference management software

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Journal names in the reference list must be abbreviated according to the List of Title Word Abbreviations, which can be found at [http://images.webofknowledge.com/images/help/WOS/A\\_abrvjt.html](http://images.webofknowledge.com/images/help/WOS/A_abrvjt.html)

## DOI of references

Each reference in the reference list must be provided with its DOI to easily track the sources during the publication process, so the process of your accepted article can be smooth and fast.

## Use of word processing software

You must provide us with an editable file of the entire article. Use this document as a template using Microsoft Word 2010 or later. To avoid unnecessary errors, you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

## Supplementary material

We encourage the use of supplementary materials such as applications, images, and sound clips to enhance research. These should be accurate, relevant, cited in the manuscript, and submitted with the article. Each file must include a concise caption, will appear online in its original format without typesetting, and may be updated with a new version if needed, but not corrected within the previous file.

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Complete Peer Review Policy can be found on Peer Review Policy page [More information](#).

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7. Title already brief and concise, written in English, and less than 15 words.
8. Abstract already brief and concise and not exceed 150 words in English.
9. Keywords are written in English, between three to five phrase.
10. The manuscript structure already consist: Introduction, Method/Material, Result and Discussion, Conclusion, Acknowledgement, and References.
11. References are written according the writing style of AI. The primary references are no less than 80% from at least twenty-five sources and had been taken from the late ten year publications.
12. (At least) two scientific referees have been suggested in "Comments for the Editor" textbox in the bottom of this page.

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