

INSTRUCTIONS TO AUTHORS

Journal of Institute of Science and Technology (JIST)
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SCOPE

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Authors are kindly requested to check the final paper thoroughly before submission – that you have considered all requirements stated in the instructions.

Specific points to note:

- *The manuscript should be in grammatically correct English language (preferably British). Text title (12 pt. Uppercase) and subtitles (10 pt. Sentence case) and text 10 pt., table and figure captions 9.5 pt. (Bold) in Times New Roman. Do not give numbers for title and subtitle.*
- *The length of the paper, including tables and figures, should preferably not exceeding 5-10 typed pages for the original article and 3-4 pages for short communications.*
- *The manuscript in a word file with table(s) and figure(s) inserted in the main text in the appropriate position, but high-quality JPEG or TIFF files should be sent separately.*
- *The text should be double spaced with a margin of at least 3 cm in A4.*
- *Paragraphs should be separated by a blank space.*
- *Enter the page number on every page.*
- *Language should be precise, clear without redundant words.*
- *Binomial names of organisms should be spelled out in full at the first use.*

Instructions for preparing manuscript

Manuscripts

A full-length paper should normally be divided into the following parts: TITLE, Authors' names with affiliations and corresponding address with email. ABSTRACT, **Keywords** (3-5 words), INTRODUCTION, MATERIALS AND METHODS (or MODELS AND DATA), RESULTS, DISCUSSION (or RESULTS AND DISCUSSION or APPLICATIONS), CONCLUSIONS, ACKNOWLEDGEMENTS, REFERENCES, and ANNEXURES if any.

TITLE: Titles should indicate the content of the manuscript, serve as a guide to reference librarians, and facilitate communication. It should be concise, meaningful, and clear. Subtitles may be used whenever needed.

Author(s): The full name of the author(s) should be written centre aligned, below the title. The authors' list should include only those who have made a substantial contribution to the design and execution of the work and the writing of the manuscript. Provide the full postal address, including the country name and email address

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ABSTRACT: Abstract should be understandable by itself and briefly explain the main messages of the paper. It must contain an experimental question, method, major findings and conclusions not exceeding 250 words. The abstract must be followed by 3-5 keywords in alphabetical order.

INTRODUCTION: The purpose of your research should appear in the introduction. State the questions you sought to answer and provide pertinent and adequate background information of previous findings for those questions.

MATERIALS AND METHODS: Provide sufficient information clearly to allow someone to repeat your work. A clear description of your experimental design, sampling procedures, and statistical procedures should be described. Give the model number for equipment used (if any). The methods already published should be indicated by a reference, and only relevant modifications should be described.

RESULTS: Results should be clear and stated concisely. Present the results logically in text, tables and figures but do not interpret your findings.

DISCUSSION: Differentiate the results of your study from data obtained from other secondary sources. Interpret your results, relate them to the results of previous research, and discuss the implications of your results.

[NOTE: Results and discussion sections can be combined if you think necessary]

CONCLUSIONS: State clearly the main conclusions of the research and give a clear explanation of the importance and relevance. This section should be based on your findings and standalone.

ACKNOWLEDGEMENTS: Acknowledge only those who have made an important contribution to the study. Many contributions justify acknowledgements, such as technical help, financial support, sources of materials, and persons who have contributed intellectually to the development of the manuscript. Do not acknowledge anyone who has no contribution.

AUTHORS CONTRIBUTION STATEMENT: The authors should mention the contributions to the work by each author. For instance, the section should cover but not limited to: conceptualization, project administration, fieldwork, laboratory works, resources, supervision, writing original drafts, review and editing, etc.

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ETHICAL STATEMENT: The authors should state that it is their original work and has not been previously published or submitted for publication elsewhere. In addition, if human subjects and/or animals are part of the research work, the authors must provide ethical approval from the Institutional Review Board (or similar entity) to show that they obtained consent to carry out the research.

DATA AVAILABILITY STATEMENT: The data availability statement should be clarified by mentioning the responsible author who has owned the raw data. For instance, one can state: 'The data that support the findings of this study are available from the corresponding author, upon reasonable request'.

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The tables and figures should be marked with self-explanatory notes and figure legends. Figure and table captions should be given below and above, respectively. Figures and illustrations should be in JPEG/TIFF (at least 300 dpi resolution) format. Each figure and table should be linked with the text. Figure and Table number should be in sequence, using Arabic numerals – i.e., Fig. 1, 2, 3., etc., Table 1., 2., 3., etc. Equations should be written in Equation Editor/Math Type. They should be numbered. All the new symbols must be clearly explained.

Metric units: for all kinds of measurements would be preferred.

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The list of references should include only those works that are cited in the text. Personal communications should only be mentioned in the text, not in the references.

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Journal articles

Surname, Given Name Initial. Second Name Initial (if any). Published Year in the bracket. Paper Title (sentence case). *Full Journal Name (italics)*, Volume No. (Issue No.), (blank space) xx-xx (page ranges without spacing).

Sharma, C.M. (2008). Freshwater, fishes, fisheries, and habitat prospects of Nepal. *Aquatic Ecosystem Health & Management*, 11(3), 289-297.

Ghimire, M.P., & Richter, M. (2017). Chemical gating of a weak topological insulator: Bi₁₄Rh₃I₉. *Nano Letters*, 17(10), 6303-6308.

Chhatkuli, D.N., Paudel, S., & Aryal, B. (2020). Study of star formation rate and metallicity of an interacting dwarf galaxy NGC 2604. *Journal of Institute of Science and Technology*, 25(2), 55-60.

Ghale, D.B., Bohara, N.B., Duwal, N., & Bhattarai, J. (2019). Investigation on the mineralogical phase of ancient brick samples of Kathmandu valley (Nepal) using XRD and FTIR analysis. *Rasayan Journal of Chemistry*, 12(2), 402-408.

Neupane, B., Dang, N.C., Acharya, K., Reppert, M., Zazubovich, V., *et al.* (2010) Insight into the electronic structure of the CP47 antenna protein complex of photosystem II: Hole burning and fluorescence study. *Journal of American Chemical Society*, 132(12), 4214-4229.

Book

Gotelli, N.J., & Ellison, A.M. (2004). *A primer of ecological statistics*. Sunderland, Massachusetts, USA: Sinauer Associates, Inc.

Edited Book

Sutherland, W.J. (Ed). (2006). *Ecological census techniques: A handbook* (2nd ed.). Cambridge, United Kingdom: Cambridge University Press.

Book Chapters

Richter, M. (2001). Density Functional Theory applied to 4f and 5f Elements and Metallic Compounds. In K.H.J. Buschow (Ed.), *Handbook of magnetic materials* (pp. 87-s228), Vol. 13, Elsevier, Amsterdam, Netherlands.

Sharma, C.M., Borgström, R., & Rosseland, B.O. (2011). Biomanipulation in Lake Årungen, Norway: A tool of biological control. In Ansari, A.A., Singh Gill, S., Lanza, G.R., Rast, W. (Eds.) *Eutrophication: causes, consequences and control* (pp. 292-323), Springer.

Report

Bhattarai, J. (2019). *Investigation on physico-chemical and sintering properties of ceramic tiles and bricks available in local market of Kathmandu Valley*. The University Grants Commission-Nepal, Sanothimi, Bhaktapur, Nepal. p. 121.

Conference paper

Swar, D.B. (2008). History of rainbow trout (*Oncorhynchus mykiss*) introduction in Nepal. In T.B. Gurung (Ed.), *Proceedings of the first national workshop on scaling up rainbow trout (Oncorhynchus mykiss) farming strategies in Nepal* (pp. 21-24), Kathmandu, Nepal.

Theses/Dissertations

Pyakurel, U. (2016). *Evacuation planning problem with contraflow approach*. PhD Thesis, Central Department of Mathematics, Institute of Science and Technology, Tribhuvan University, Nepal.

Bhattarai, J. (1998). *Tailoring of corrosion-resistant tungsten alloys by sputtering*. PhD Thesis, Department of Materials Science, Faculty of Engineering, Tohoku University, Japan.

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