

Instructions for Authors

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OPEN PHYSICS considers submissions of:

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- Brief Report ** (Mini article)
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- Erratum
- Editorial
- Interview
- Letter
- Retraction

*Rapid Communications are intended to present information of exceptional novelty and extraordinary results of significant interest to the readers. Authors are asked to provide an explanation in the cover letter why their contribution should be handled *via* the rapid channel.

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All submissions must be made *via* online submission system [Editorial Manager](#).

Manuscripts submitted under multiple authorship are reviewed on the assumption that all listed authors contributed to the work and are responsible for its content; they had to agree to its publication and gave the corresponding author the authority to act on their behalf in all matters leading to publication. The corresponding author is responsible to inform the coauthors of the manuscript status throughout the submission, review, and production process.

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We accept submission of text, tables and figures as separate files or as a composite file. For your initial submission, we recommend you upload your entire manuscript, including tables and figures, as a single PDF file. If you are invited to submit a revised manuscript, please provide us with individual files: an editable text and publication-quality figures.

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Any articles that have been prepared in LaTeX will be accepted for review, but only in PDF format. Post acceptance, text files of the revised manuscript and tables are required for use in the production. Authors should clearly indicate location of tables and figures in the text if these elements are given separately or at the end of the manuscript. If this information is not provided to the editorial office, we will assume that they should be left at the end of the text.

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Resubmitted manuscript should be accompanied by a letter outlining a point-by-point response to Editor's and reviewers' comments and detailing the changes made to the manuscript. A compare copy of the manuscript should be included if the Editor requested one. If it is the first revision authors need to return revised manuscript within 28 days; if it is the second revision authors need to return revised manuscript within 14 days. Additional time for resubmission must be requested in advance; further 14 days may be given to authors for further improvements. If the above mentioned deadlines are not met, the manuscript will be treated as a new submission.

Please provide us with an editable text and publication-quality figures:

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- Supply any figures as separate high-resolution, print-ready digital versions.

In addition to the editorial remarks, authors are asked to take care that they have prepared the revised version according to the Journal's style. Please adopt numbered citation (citation-sequence) style referencing.

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It is essential that contributors prepare their manuscripts according to the instructions and specifications presented below.

General rules for writing

The work must demonstrate its novelty and importance to the field of physics its interest to physicists in general. Conclusions must be justified by the study; please make your argumentation complete and be self-critical as you review your drafts.

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Use simple and declarative sentences and commonly understandable terminologies; avoid long sentences and idle words. We recommend that for clarity you use the past tense to narrate particular events in the past, including the procedures, observations, and data of the study that you are reporting. Use the present tense for your own general conclusions, the conclusions of previous researchers, and generally accepted facts. Thus, most of the Abstract, Experimental Procedures, and Results should be in the past tense, and most of the Introduction and some of the Discussion should be in the present tense. Editors may make suggestions for how to improve clarity and readability, as well as to strengthen the argument.

Organization of the Manuscript

Articles should be organized into the following sections:

- Title page with: Title (and running title); Author's name(s); Affiliation(s); Address(es)
- Abstract
- Keywords
- Introduction
- Experimental Procedures
- Results
- Discussion
- Acknowledgments (if applicable)
- Author's Statements
- References
- Figure Legends and Table Captions
- Tables
- Figures
- Supplemental data (if applicable)

Each of these elements is detailed below. We draw particular attention of authors to the importance of carefully preparing the title, keywords and abstract as these elements are indicators of the manuscript content in bibliographic databases and search engines.

Title

We suggest the title should be informative, specific to the project, yet concise (75 characters or less). Please bear in mind that a title that is comprehensible to a broad scientific audience and readers outside your field will convey to wide readership of your article. Avoid specialist abbreviations and non-standard acronyms. Titles should not be presented in title case (words should not be capitalized). Please also provide a brief "running title" of not more than 50 characters.

Authors, Affiliations, Addresses

Provide the first names (or initials - if used), middle names (or initials - if used), surnames for all authors. Affiliations should include:

- Department
- University or organization
- City
- Postal code
- State/province (if applicable)

- Country

One of the authors should be designated as the corresponding author to whom inquiries regarding the paper should be directed. It is the corresponding author's responsibility to ensure that the author list and the summary of the author contributions to the study are accurate and complete. Place an asterisk after the name of the corresponding author and provide us with a valid e-mail address. Please note that a change in authorship (order of listing, addition or deletion of a name, or corresponding author designation) after submission of the manuscript will be implemented only after receipt of signed statements of agreement from all parties involved. Footnote can be used to present additional information (for example: permanent, adequate, present postal addresses). If the article has been submitted on behalf of a consortium, all consortium members and affiliations should be listed after the Acknowledgments.

Abstract and Image accompanying abstract

The abstract should be succinct; it should not exceed 200 words. The abstract should give the idea of the basic content of the paper and is usually conceptually divided into: Background, Methodology, Principal Findings/Results, and Conclusions/Significance. Mention the techniques used without going into methodological detail and summarize briefly the most important items of the paper. Please do not include any citations or references to tables or figures, and avoid specialist abbreviations and symbols. Because the abstract will be published separately by abstracting services, it must be complete and understandable without reference to the text.

Authors may provide a striking image to accompany their article, if one is available. If the image (photo, graph, and scheme) is judged by the editors to be suitable for publication, it may be featured on the web to highlight the paper online. It is preferable, but not essential, that these should be related strictly to the subject reported in the manuscript. The image could originate from the experimental findings reported in the manuscript but does not have to constitute a part of the original work and need not be reprinted in the article. Images must be original and should be submitted as separate files.

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List keywords for the work presented (minimum of 4, and maximum of 10), separated by commas. We suggest that keywords are other than those used in the title.

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The introduction should put the focus of the manuscript into a broader context and should supply sufficient background information to allow the reader to understand and evaluate the results without referring to previous publications on the topic. As you compose the introduction, think of readers who are not experts in this field. Include a brief review of the key literature - use only those references required to provide the most salient background rather than an exhaustive review of the topic. Relevant controversies or disagreements in the field should be mentioned so that a non-expert reader can delve into these issues further. The introduction should conclude with a brief statement of the rationale for the study, the hypothesis that was addressed or the overall purpose of the experiments reported and should provide a comment about whether that aim was achieved.

Experimental Procedures

This section should include sufficient technical information to enable the experiments to be reproduced. Protocols for new methods or significant modifications to existing methods should be included, while previously published or well-established protocols should only be referenced. Describe new methods completely and give sources of unusual chemicals, equipment, strains etc. Studies presented should comply with our recommendations for Distribution of materials and data (see below). In theoretical papers comprising the computational analyses, technical details (methods, models applied or newly developed) should be provided to enable the readers to reproduce the calculations.

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This section should provide details of all of the experiments that are required to support the conclusions of the paper. Reserve extensive interpretation of the results for the Discussion section. Details of experiments that are peripheral to the main thrust of the article and that detract from the focus of the article should not be included. Present the results as concisely as possible in text, table(s), or figure(s) (see below). Avoid extensive use of graphs to present data that might be more concisely presented in the text or tables. Graphs illustrating methods commonly used need not be shown except in unusual circumstances. Limit photographs to those that are absolutely necessary to show the experimental

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The results and discussion sections may be combined into one section and can include additional subheadings.

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Acknowledgments

This section should describe recognition of personal assistance: people who contributed to the work, but do not fit the criteria for authors should be listed along with their contributions. You must ensure that anyone named in the acknowledgments agrees to being so named.

Author's Statements

This section should describe:

- any funding information, including the role of the study sponsor(s), if any, in study design, collection, analysis, and interpretation of data, writing the paper and decision to submit it for publication;
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- conflict of interest;
- Data Availability Statement (if applicable).

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References

Because all references will be linked electronically to the papers they cite, proper formatting of the references is crucial. A complete reference should give the reader enough information to find the relevant article. Please pay particular attention to spelling, capitalization and punctuation. **Completeness of references is the responsibility of the authors.**

References to unpublished or submitted work, unpublished conference presentations, personal communications, patent applications and patents pending, computer software, databases, and websites should be referred to as such only in the body of the text. These should be kept to the minimum.

The examples are as follows:

- (J. Smith, unpublished data)
- (J. Smith and P. Brown, submitted for publication)
- (J. Smith, personal communication)
- (J. Smith and P. Brown, presented at the 4th Symposium on Food Microbiology, Overton,

- IL, 13 - 15 June 1989)
- (J. C. Odell, April 1970, Process for batch culturing, U.S. patent 484,363,770)
- (J. Smith, 20 June 1999, Australian Patent Office)
- ... from the GenBank database (<http://www.ncbi.nlm.nih.gov/Genbank/index.html>)
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Published Papers

- Halpern SD, Ubel PA, Caplan AL. Solid-organ transplantation in HIV-infected patients. *N Engl J Med.* 2002;347(4):284-7. doi:10.1157 2002-x34742847.
- Rose ME, Huerbin MB, Melick J, Marion DW, Palmer AM, Schiding JK, et al. Regulation of interstitial excitatory amino acid concentrations after cortical contusion injury. *Brain Res.* 2002;935(1-2):40-6. doi:10.18.x548689553.
- Ellingsen AE, Wilhelmsen I. Sykdomsangst blant medisiner- og jusstudenter. *Tidsskr Nor Lægeforen.* 2002;122(8):785-7. Norwegian.
- Mansharamani M, Chilton BS. The reproductive importance of P-type ATPases. *Mol Cell Endocrinol.* 2002;188(1-2):22-5. Corrected and republished from: *Mol Cell Endocrinol.* 2001;183(1-2):123-6.

Unpublished Material /Forthcoming and Preprints

- Tian D, Araki H, Stahl E, Bergelson J, Kreitman M. Signature of balancing selection in Arabidopsis. *Proc Natl Acad Sci U S A.* Forthcoming 2002.
- Alvarez R. Near optimal neural network estimator for spectral x-ray photon counting data with pileup. arXiv:1702.01006v1 [Preprint]. 2017 [cited 2017 Feb 9]: [11 p.]. Available from: <https://arxiv.org/abs/1702.01006>
- Bar DZ, Atkash K, Tavarez U, Erdos MR, Gruenbaum Y, Collins FS. Biotinylation by antibody recognition- A novel method for proximity labeling. *BioRxiv* 069187 [Preprint]. 2016 [cited 2017 Jan 12]. Available from: <https://www.biorxiv.org/content/10.1101/069187v1>

Electronic Journal Articles

- Abood S. Quality improvement initiative in nursing homes: the ANA acts in an advisory role. *Am J Nurs* [Internet]. 2002 Jun [cited 2002 Aug 12];102(6):[about 1 p.]. Available from: <https://ovidsp.tx.ovid.com/> Subscription required.

Books and book chapters

- Murray PR, Rosenthal KS, Kobayashi GS, Pfaller MA. *Medical microbiology.* 4th ed. St. Louis: Mosby; 2002.
- Gilstrap LC 3rd, Cunningham FG, VanDorsten JP, editors. *Operative obstetrics.* 2nd ed. New York: McGraw-Hill; 2002.
- Meltzer PS, Kallioniemi A, Trent JM. Chromosome alterations in human solid tumors. In: Vogelstein B, Kinzler KW, editors. *The genetic basis of human cancer.* New York: McGraw-Hill; 2002. p. 93-113.

Theses

- Borkowski MM. Infant sleep and feeding: a telephone survey of Hispanic Americans [dissertation]. Mount Pleasant (MI): Central Michigan University; 2002.

Conference proceedings

- Harnden P, Joffe JK, Jones WG, editors. Germ cell tumours V. Proceedings of the 5th Germ Cell Tumour Conference; 2001 Sep 13-15; Leeds, UK. New York: Springer; 2002.

Conference paper

- Christensen S, Oppacher F. An analysis of Koza's computational effort statistic for genetic programming. In: Foster JA, Lutton E, Miller J, Ryan C, Tettamanzi AG, editors. Genetic programming. EuroGP 2002: Proceedings of the 5th European Conference on Genetic Programming; 2002 Apr 3-5; Kinsdale, Ireland. Berlin: Springer; 2002. p. 182-91.

Newspaper articles

- Tynan T. Medical improvements lower homicide rate: study sees drop in assault rate. The Washington Post. 2002 Aug 12;Sect. A:2 (col. 4).

References are listed and numbered in the order that they appear in the text. In the text, citations should be indicated by the reference number in brackets. Multiple citations within a single set of brackets should be separated by commas. Where there are more than three sequential citations, they should be given as a range. References in figure captions and tables should be listed as last.

Before submitting your article, please make sure you have carefully checked the manuscript for any relevant references you may have missed.

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Authors may use photographs, schemes, diagrams, line graphs and bar charts to illustrate their findings. Figures included with online submissions should be suitable for onscreen viewing and desktop printing. High resolution images should be provided on request or on manuscript acceptance. The figures and their lettering should be clear and easy to read i.e. no labels should be too large or too small. Photomicrographs should include a scaled bar and indicate the size. We remind authors that it is not acceptable scientific conduct to modify any separate element within an image (adjustments of the entire image in brightness, contrast and color balance are justified only if they do not misrepresent the original, observed data). Composite figures composed of grouped images such as insets from different fields or separate parts of gels must be explained in the figure legend and differentiated by use of dividing lines or other means to make composites unambiguous. Figures should be numbered consecutively using Arabic numerals and referred to in the text by number. Figure legends should follow the main text, each on a separate page. Each figure legend should have a concise title and should provide enough information so that the figure is understandable without frequent reference to the text. It should inform the reader of key aspects of the figure, but the figure should also be discussed in the text. The legend should be succinct, while still explaining all symbols and abbreviations. Avoid lengthy descriptions of methods.

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Supplemental Material

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