DESCRIPTION

Results in Physics is an open access journal offering authors the opportunity to publish in all fundamental and interdisciplinary areas of physics, materials science, and applied physics. Papers of a theoretical, computational, and experimental nature are all welcome. Results in Physics accepts papers that are scientifically sound, technically correct and provide valuable new knowledge to the physics community. Topics such as three-dimensional flow and magnetohydrodynamics are not within the scope of Results in Physics.

Results in Physics welcomes three types of papers:

1. Full research papers

2. Microarticles: very short papers, no longer than two pages. They may consist of a single, but well-described piece of information, such as:
   - Data and/or a plot plus a description
   - Description of a new method or instrumentation
   - Negative results
   - Concept or design study

3. Letters to the Editor: Letters discussing a recent article published in Results in Physics are welcome. These are objective, constructive, or educational critiques of papers published in Results in Physics. Accepted letters will be sent to the author of the original paper for a response. Each letter and response is published together. Letters should be received within 8 weeks of the article's publication. They should not exceed 750 words of text and 10 references.

All submitted manuscripts are fully peer-reviewed and after acceptance, a publication fee is charged to cover all editorial, production, and archiving costs. The gold open access publication fee for this journal is USD 1,200 for full papers, USD 550 for microarticles, excluding taxes. Letters to the Editor have no publication fee. Learn more about Elsevier's pricing policy: https://www.elsevier.com/openaccesspricing.

IMPACT FACTOR

2019: 4.019 © Clarivate Analytics Journal Citation Reports 2020
ABSTRACTING AND INDEXING

Directory of Open Access Journals (DOAJ)
Scopus
Science Citation Index
INSPEC

EDITORIAL BOARD

Editor-in-Chief
Cong-Feng Qiao, University of the Chinese Academy of Sciences, Beijing, China
Particle Physics, Quantum Theory

Editors
Fabio Baronio, University of Brescia, Brescia, Italy
Photonics; Optics; Nonlinear Optics
Shanshan Chen, Renmin University of China, Beijing, China
Low dimensional physics, Material Science
Eugenio Del Re, University of Rome La Sapienza Department of Physics, Roma, Italy
Solid State Physics, Complex Systems, Functional Materials
Vadim Markel, University of Pennsylvania Department of Radiology, Philadelphia, Pennsylvania, United States
Optics, Atomic and Molecular Physics, Condensed Matter Physics
Shuang-Yong Zhou, University of Science and Technology of China, Hefei, China
Gravitation, Quantum Field Theory, Astrophysics and Cosmology

International Advisory Board
Omid Akhavan, Sharif University of Technology, Tehran, Iran, Islamic Republic of
Maxim Avdeev, Australian Nuclear Science and Technology Organisation, Kirrawee, Australia
Crystal and magnetic structure of inorganic materials; Neutron scattering; Classical and ab initio atomistic modelling; Data mining
Michel W. Barsoum, Drexel University Department of Materials Science and Engineering, Philadelphia, Pennsylvania, United States
Ceramic materials; Ternary carbides and nitrides; MAX phases and their 2D derivatives; MXenes
Alida Bellosi, Institute of Science and Technology of Ceramic Materials National Research Council, Faenza, Italy
Frank de Boer, University of Amsterdam Van der Waals-Zeeman Institute, Amsterdam, Netherlands
Boris Bokstein, National University of Science and Technology MISiS, Department of Physical Chemistry, Moscow, Russian Federation
Diffusion and defects in metals and alloys; Amorphous and nanostructured materials; Grain boundary diffusion; Segregation and wetting; Diffusion controlled processes and properties of materials
Mikhail Brik, University of Tartu Institute of Physics, Tartu, Estonia
Crystal field theory; Calculations of energy levels of 3d and 4f ions in crystals; Ab initio calculations of physical properties of pure and doped crystals; Computational materials science
Ekkes Brück, TU Delft, Delft, Netherlands
Charles Doering, University of Michigan, Ann Arbor, Michigan, United States
Nonlinear Science; Statistical Physics; Biological Physics; Plasma and Fluid Physics
William Fahrenholtz, Missouri University of Science and Technology, Rolla, Missouri, United States
Eric Gaffet, University of Lorraine, Nancy, France
Nanomaterials: Synthesis and Characterization, Solid State Reaction, Mechanical alloying, Mechanochemistry, Ball Milling, Powder Metallurgy, Responsible Development of Nanomaterials, Safer by design / by process (nanomaterials)
Manoj Gupta, National University of Singapore, Singapore
Processing, microstructure and properties evaluation of advanced light weight structural materials inclusive of Al and Mg light-metal alloys/micro/nano/metastable-composites and lightweight high entropy alloys
Young-Woo Heo, Kyungpook National University, Daegu, Korea, Republic of
Azam Iraji zad, Sharif University of Technology, Tehran, Iran, Islamic Republic of
Ryosuke Kainuma, Tohoku University, Sendai, Japan
Materials science, phase diagrams, phase transformations, microstructure
Vladislav Kharton, Institute of Solid State Physics Russian Academy of Sciences, Chernogolovka, Russian Federation
Iwan Kityk†, Czestochowa Technical University, Faculty of Electrical Engineering, Institute of Optoelectronics and Measuring Systems, Częstochowa, Poland
Condensed Matter Physics, Spectroscopy of condensed matter; Nonlinear optical effects in solids; Band structure of crystals

**Xiaoguang Li**, University of Science and Technology of China Department of Physics, Hefei, Anhui, China

superconductivity and magnetism

**Zi-Kui Liu**, The Pennsylvania State University Department of Materials Science and Engineering, University Park, Pennsylvania, United States

**Jörg Löffler**, Swiss Federal Institute of Technology, Zurich, Switzerland

(1) Bulk metallic glasses, (2) Biodegradable metallic implants

**Wilfrid Prellier**, Laboratory of Crystallography and Materials Science, Caen, France

**Czesław Rudowicz**, West Pomeranian University of Technology, Szczecin, Poland, and A. Mickiewicz University, Poznan, Poland

World-class expert in the areas: magnetism and optical & EMR (EPR/ESR) spectroscopy of transition ions: ligand/crystal field theory, foundations of EMR, microscopic spin Hamiltonian theory, superposition model, low symmetry effects

**David Schmool**, Versailles Saint-Quentin-en-Yvelines University, Versailles, France

Ferromagnetic resonance (FMR) and spin dynamics in nanoscale systems; Magneto-transport measurements; Magnetic thin films and multilayers; Magnetic oxides; Nanostructured magnetic materials and magnetic nanoparticles; Ultrafast magnetisation dynamics

**Penelope Schobinger-Papamantellos**, Swiss Federal Institute of Technology, Zurich, Switzerland

Magnetic structures of Rare earth intermetallics and Boracites. I am basically a chemist and diffractionist (x-ray and neutron).

**David Sellmyer**, University of Nebraska-Lincoln, Lincoln, Nebraska, United States

Quantum and spin phenomena in nanomagnetic structures

**Zbigniew Stadnik**, University of Ottawa, Ottawa, Ontario, Canada

Magnetism, quasicrystals, high-Tc superconductors, novel compounds

**Wieslaw Strek**, W Trzebiatowski Institute of Low Temperature and Structural Research of the Polish Academy of Sciences, Wroclaw, Poland

Rare earth ions and transition metal ions, doped sol-gel materials, photonic structures, nanomaterials, nanoceramics and crystals.

**Andrez Wisniewski**, Polish Academy of Sciences, Warszawa, Poland

Magnetism (Impact of pressure on magnetic properties; Magnetic nanoparticles; Magnetic properties of manganites and cobaltites) and Superconductivity (Impact of pressure on superconducting properties; Properties of vortex matter; Impact of irradiation defects and chemical substitutions on vortex lattice properties; High-Tc superconductors; Iron-based superconductors)

**Thomas G. Woodcock**, IFW Dresden Institute for Metallic Materials, Dresden, Germany

Electron microscopy; Electron backscatter diffraction; Magnetic materials; Microstructure

**Chun-Liang Yeh**, Feng Chia University, Taichung, Taiwan

Self-propagating High-temperature Synthesis (SHS), Transition metal borides and nitrides, Intermetallics, MAX phases, Thermite Reaction

**Yu-feng Zheng**, Peking University Department of Material Science and Engineering, Beijing, China

**Cordt Zollfrank**, Technical University of Munich School of Life Sciences Weihenstephan, Freising, Germany
Your Paper Your Way

We now differentiate between the requirements for new and revised submissions. You may choose to submit your manuscript as a single Word or PDF file to be used in the refereeing process. Only when your paper is at the revision stage, will you be requested to put your paper in to a "correct format" for acceptance and provide the items required for the publication of your article.

To find out more, please visit the Preparation section below.

INTRODUCTION

Results in Physics is an open access journal offering authors the opportunity to publish in all fundamental and interdisciplinary areas of physics, materials science, and applied physics. Papers of a theoretical, computational, and experimental nature are all welcome. Results in Physics accepts papers that are scientifically sound, technically correct and provide valuable new knowledge to the physics community.

Types of paper

Results in Physics welcomes three types of papers: Full research papers Microarticles: very short papers, no longer than 2 pages. They may consist of a single, but well-described piece of information, such as: Data and/or a plot plus a description Description of a new method or instrumentation Experimental or theoretical disproof of previous results Concept or design study Letters to the Editor: Letters discussing a recent article published in RINP are welcome. These are objective, constructive, or educational critiques of papers published in Results in Physics. Accepted letters will be sent to the author of the original paper for a response. Each letter and response is published together. Letters should be received within 8 weeks of the article's publication. They should not exceed 750 words of text and 10 references.

BEFORE YOU BEGIN

Acceptance Criteria

All published papers in Results in Physics are peer reviewed and must be:
• Scientifically sound • In compliance with international research and publishing ethics standards • Written in clear, concise and correct English • A valid contribution to the existing literature and of educational value to the specific community and readers • Original, unpublished work

Ethics in publishing

Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

Declaration of competing interest

All authors must disclose any financial and personal relationships with other people or organizations that could inappropriately influence (bias) their work. Examples of potential conflicts of interest include employment, consultancies, stock ownership, honoraria, paid expert testimony, patent applications/registrations, and grants or other funding. Authors should complete the declaration of competing interest statement using this template and upload to the submission system at the Attach/Upload Files step. Note: Please do not convert the .docx template to another file type. Author signatures are not required. If there are no interests to declare, please choose the first option in the template. This statement will be published within the article if accepted. More information.

Submission declaration and verification

Submission of an article implies that the work described has not been published previously (except in the form of an abstract, a published lecture or academic thesis, see ‘Multiple, redundant or concurrent publication’ for more information), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere in the same form, in English or in any other language, including electronically without the written consent of the copyright-holder. To verify originality, your article may be checked by the originality detection service Crossref Similarity Check.
Preprints
Please note that preprints can be shared anywhere at any time, in line with Elsevier's sharing policy. Sharing your preprints e.g. on a preprint server will not count as prior publication (see 'Multiple, redundant or concurrent publication' for more information).

Use of inclusive language
Inclusive language acknowledges diversity, conveys respect to all people, is sensitive to differences, and promotes equal opportunities. Content should make no assumptions about the beliefs or commitments of any reader; contain nothing which might imply that one individual is superior to another on the grounds of age, gender, race, ethnicity, culture, sexual orientation, disability or health condition; and use inclusive language throughout. Authors should ensure that writing is free from bias, stereotypes, slang, reference to dominant culture and/or cultural assumptions. We advise to seek gender neutrality by using plural nouns ("clinicians, patients/clients") as default/wherever possible to avoid using "he, she," or "he/she." We recommend avoiding the use of descriptors that refer to personal attributes such as age, gender, race, ethnicity, culture, sexual orientation, disability or health condition unless they are relevant and valid. These guidelines are meant as a point of reference to help identify appropriate language but are by no means exhaustive or definitive.

Author contributions
For transparency, we encourage authors to submit an author statement file outlining their individual contributions to the paper using the relevant CRediT roles: Conceptualization; Data curation; Formal analysis; Funding acquisition; Investigation; Methodology; Project administration; Resources; Software; Supervision; Validation; Visualization; Roles/Writing - original draft; Writing - review & editing. Authorship statements should be formatted with the names of authors first and CRediT role(s) following. More details and an example

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, (3) final approval of the version to be submitted.

Changes to authorship
Authors are expected to consider carefully the list and order of authors before submitting their manuscript and provide the definitive list of authors at the time of the original submission. Any addition, deletion or rearrangement of author names in the authorship list should be made only before the manuscript has been accepted and only if approved by the journal Editor. To request such a change, the Editor must receive the following from the corresponding author: (a) the reason for the change in author list and (b) 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 corrigendum.

Article transfer service
This journal is part of our Article Transfer Service. This means that if the Editor feels your article is more suitable in one of our other participating journals, then you may be asked to consider transferring the article to one of those. If you agree, your article will be transferred automatically on your behalf with no need to reformat. Please note that your article will be reviewed again by the new journal. More information.

Copyright
Upon acceptance of an article, authors will be asked to complete an 'Exclusive License Agreement' (see more information on this). Permitted third party reuse of open access articles is determined by the author's choice of user license.

Author rights
As an author you (or your employer or institution) have certain rights to reuse your work. More information.
Elsevier supports responsible sharing
Find out how you can share your research published in Elsevier journals.

Role of the funding source
You are requested to identify who provided financial support for the conduct of the research and/or preparation of the article and to briefly describe the role of the sponsor(s), if any, in study design; in the collection, analysis and interpretation of data; in the writing of the report; and in the decision to submit the article for publication. If the funding source(s) had no such involvement then this should be stated.

Open access
The gold open access publication fee for this journal is USD 1,200 for full papers, USD 550 for microarticles, excluding taxes. Letters to the Editor have no publication fee. Please visit our Open Access page for more information.

Elsevier Researcher Academy
Researcher Academy is a free e-learning platform designed to support early and mid-career researchers throughout their research journey. The "Learn" environment at Researcher Academy offers several interactive modules, webinars, downloadable guides and resources to guide you through the process of writing for research and going through peer review. Feel free to use these free resources to improve your submission and navigate the publication process with ease.

Language (usage and editing services)
Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier's Author Services.

Referees
Please suggest contact information of four potential reviewers, by indicating their name, title, institution and email address. For more details, visit our Support site. Note that the editor retains the sole right to decide whether or not the suggested reviewers are used.

PREPARATION

NEW SUBMISSIONS
Submission to this journal proceeds totally online and you will be guided stepwise through the creation and uploading of your files. The system automatically converts your files to a single PDF file, which is used in the peer-review process.
As part of the Your Paper Your Way service, you may choose to submit your manuscript as a single file to be used in the refereeing process. This can be a PDF file or a Word document, in any format or layout that can be used by referees to evaluate your manuscript. It should contain high enough quality figures for refereeing. If you prefer to do so, you may still provide all or some of the source files at the initial submission. Please note that individual figure files larger than 10 MB must be uploaded separately.

There are no strict requirements on reference formatting at submission. References can be in any style or format as long as the style is consistent. Where applicable, author(s) name(s), journal title/book title, chapter title/article title, year of publication, volume number/book chapter and the pagination must be present. Use of DOI is highly encouraged. The reference style used by the journal will be applied to the accepted article by Elsevier at the proof stage. Note that missing data will be highlighted at proof stage for the author to correct. If you do wish to format the references yourself they should be arranged according to the following examples: [1] 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.

Formatting requirements
There are no strict formatting requirements but all manuscripts must contain the essential elements needed to convey your manuscript: Title, Author(s), Affiliations, Abstract, Keywords, Reference list. Tables, figures and images should contain clear captions. If your article includes any Videos and/or other Supplementary material, this should be included in your initial submission for peer review purposes.

REVISED SUBMISSIONS
**Highlights**

Highlights are optional yet highly encouraged for this journal, as they increase the discoverability of your article via search engines. They consist of a short collection of bullet points that capture the novel results of your research as well as new methods that were used during the study (if any). Please have a look at the examples here: example Highlights.

Highlights should be submitted in a separate editable file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point).

**Formatting of funding sources**

List funding sources in this standard way to facilitate compliance to funder's requirements:

Funding: This work was supported by the National Institutes of Health [grant numbers xxxx, yyyyy]; the Bill & Melinda Gates Foundation, Seattle, WA [grant number zzzzz]; and the United States Institutes of Peace [grant number aaaaa].

It is not necessary to include detailed descriptions on the program or type of grants and awards. When funding is from a block grant or other resources available to a university, college, or other research institution, submit the name of the institute or organization that provided the funding.

If no funding has been provided for the research, please include the following sentence:

This research did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

**Data references**

This journal encourages you to cite underlying or relevant datasets in your manuscript by citing them in your text and including a data reference in your Reference List. Data references should include the following elements: author name(s), dataset title, data repository, version (where available), year, and global persistent identifier. Add [dataset] immediately before the reference so we can properly identify it as a data reference. The [dataset] identifier will not appear in your published article.

**Reference management software**

Most Elsevier journals have their reference template available in many of the most popular reference management software products. These include all products that support Citation Style Language styles, such as Mendeley. Using citation plug-ins from these products, authors only need to select the appropriate journal template when preparing their article, after which citations and bibliographies will be automatically formatted in the journal’s style. If no template is yet available for this journal, please follow the format of the sample references and citations as shown in this Guide. If you use reference management software, please ensure that you remove all field codes before submitting the electronic manuscript. More information on how to remove field codes from different reference management software.

Users of Mendeley Desktop can easily install the reference style for this journal by clicking the following link:

http://open.mendeley.com/use-citation-style/results-in-physics

When preparing your manuscript, you will then be able to select this style using the Mendeley plug-ins for Microsoft Word or LibreOffice.

**Reference formatting**

There are no strict requirements on reference formatting at submission. References can be in any style or format as long as the style is consistent. Where applicable, author(s) name(s), journal title/book title, chapter title/article title, year of publication, volume number/book chapter and the article number or pagination must be present. Use of DOI is highly encouraged. The reference style used by the journal will be applied to the accepted article by Elsevier at the proof stage. Note that missing data will be highlighted at proof stage for the author to correct. If you do wish to format the references yourself they should be arranged according to the following examples:

**Video**

Elsevier accepts video material and animation sequences to support and enhance your scientific research. Authors who have video or animation files that they wish to submit with their article are strongly encouraged to include links to these within the body of the article. This can be done in the
same way as a figure or table by referring to the video or animation content and noting in the body text where it should be placed. All submitted files should be properly labeled so that they directly relate to the video file's content. In order to ensure that your video or animation material is directly usable, please provide the file in one of our recommended file formats with a preferred maximum size of 150 MB per file, 1 GB in total. Video and animation files supplied will be published online in the electronic version of your article in Elsevier Web products, including ScienceDirect. Please supply 'stills' with your files: you can choose any frame from the video or animation or make a separate image. These will be used instead of standard icons and will personalize the link to your video data. For more detailed instructions please visit our video instruction pages. Note: since video and animation cannot be embedded in the print version of the journal, please provide text for both the electronic and the print version for the portions of the article that refer to this content.

**Preferred Video Specifications**
Authors should be aware that file compression and low bandwidth on YouTube does result in some degradation of the source file. In the interest of ensuring that the videos meet minimum standards of quality (including both video and audio components) we advise the below specifications when creating a video abstract for *Results in Physics:*

- Frame rate: 15 frames per second minimum
- NTSC (4:3) size and frame rate, deinterlaced
- Video Codec: MPEG2 or MPEG4 (MPEG4 preferred)
- Video Bitrate: at least 260Kbps (750kbps preferred)
- Audio Codec: MP3 vbr
- Audio Bitrate: at least 70Kbps (128 Kbps preferred)

For more information on Elsevier's general multimedia file policies, please visit: https://service.elsevier.com/app/answers/detail/a_id/810/c/6261/kw/movie%20animation

**Data visualization**
Include interactive data visualizations in your publication and let your readers interact and engage more closely with your research. Follow the instructions here to find out about available data visualization options and how to include them with your article.

**Supplementary material**
Supplementary material such as applications, images and sound clips, can be published with your article to enhance it. Submitted supplementary items are published exactly as they are received (Excel or PowerPoint files will appear as such online). Please submit your material together with the article and supply a concise, descriptive caption for each supplementary file. If you wish to make changes to supplementary material during any stage of the process, please make sure to provide an updated file. Do not annotate any corrections on a previous version. Please switch off the 'Track Changes' option in Microsoft Office files as these will appear in the published version.

**Research data**
This journal encourages and enables you to share data that supports your research publication where appropriate, and enables you to interlink the data with your published articles. Research data refers to the results of observations or experimentation that validate research findings. To facilitate reproducibility and data reuse, this journal also encourages you to share your software, code, models, algorithms, protocols, methods and other useful materials related to the project.

Below are a number of ways in which you can associate data with your article or make a statement about the availability of your data when submitting your manuscript. If you are sharing data in one of these ways, you are encouraged to cite the data in your manuscript and reference list. Please refer to the "References" section for more information about data citation. For more information on depositing, sharing and using research data and other relevant research materials, visit the research data page.

**Data linking**
If you have made your research data available in a data repository, you can link your article directly to the dataset. Elsevier collaborates with a number of repositories to link articles on ScienceDirect with relevant repositories, giving readers access to underlying data that gives them a better understanding of the research described.
There are different ways to link your datasets to your article. When available, you can directly link your dataset to your article by providing the relevant information in the submission system. For more information, visit the database linking page.

For supported data repositories a repository banner will automatically appear next to your published article on ScienceDirect.

In addition, you can link to relevant data or entities through identifiers within the text of your manuscript, using the following format: Database: xxxx (e.g., TAIR: AT1G01020; CCDC: 734053; PDB: 1XFN).

**Mendeley Data**
This journal supports Mendeley Data, enabling you to deposit any research data (including raw and processed data, video, code, software, algorithms, protocols, and methods) associated with your manuscript in a free-to-use, open access repository. During the submission process, after uploading your manuscript, you will have the opportunity to upload your relevant datasets directly to Mendeley Data. The datasets will be listed and directly accessible to readers next to your published article online.

For more information, visit the Mendeley Data for journals page.

**Data statement**
To foster transparency, we encourage you to state the availability of your data in your submission. This may be a requirement of your funding body or institution. If your data is unavailable to access or unsuitable to post, you will have the opportunity to indicate why during the submission process, for example by stating that the research data is confidential. The statement will appear with your published article on ScienceDirect. For more information, visit the Data Statement page.

**AFTER ACCEPTANCE**

**Use of the Digital Object Identifier**
The Digital Object Identifier (DOI) may be used to cite and link to electronic documents. The DOI consists of a unique alpha-numeric character string which is assigned to a document by the publisher upon the initial electronic publication. The assigned DOI never changes. Therefore, it is an ideal medium for citing a document, particularly ‘Articles in press’ because they have not yet received their full bibliographic information. An example of the correct format for citing a DOI is shown as follows: https://doi.org/10.1016/j.rinp.2011.01.038

When you use the DOI to create URL hyperlinks to documents on the web, they are guaranteed never to change.

**Online proof correction**
To ensure a fast publication process of the article, we kindly ask authors to provide us with their proof corrections within two days. Corresponding authors will receive an e-mail with a link to our online proofing system, allowing annotation and correction of proofs online. The environment is similar to MS Word: in addition to editing text, you can also comment on figures/tables and answer questions from the Copy Editor. Web-based proofing provides a faster and less error-prone process by allowing you to directly type your corrections, eliminating the potential introduction of errors. If preferred, you can still choose to annotate and upload your edits on the PDF version. All instructions for proofing will be given in the e-mail we send to authors, including alternative methods to the online version and PDF.

We will do everything possible to get your article published quickly and accurately. Please use this proof only for checking the typesetting, editing, completeness and correctness of the text, tables and figures. Significant changes to the article as accepted for publication will only be considered at this stage with permission from the Editor. It is important to ensure that all corrections are sent back to us in one communication. Please check carefully before replying, as inclusion of any subsequent corrections cannot be guaranteed. Proofreading is solely your responsibility.

**Offprints**
The corresponding author will be notified and receive a link to the published version of the open access article on ScienceDirect. This link is in the form of an article DOI link which can be shared via email and social networks. For an extra charge, paper offprints can be ordered via the offprint order form which is sent once the article is accepted for publication. Both corresponding and co-authors may order offprints at any time via Elsevier’s Author Services.
Author inquiries
For inquiries relating to Results in Physics please contact the Managing Editor of Results in Physics at: rinp@elsevier.com. You can track accepted articles at https://www.elsevier.com/trackarticle and set up e-mail alerts to inform you of when an article's status has changed. Also accessible from here is information on copyright, frequently asked questions and more. Contact details for questions arising after acceptance of an article, especially those relating to proofs, will be provided by the publisher.

Editor; 2 reviewers, double blind
This journal operates a double 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 at least one independent expert reviewer 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.