

Information for Authors

The journal *Fizika Nizkikh Temperatur* is for publication of articles, short notes, letters to the Editor with original results, and reviews of the most relevant problems in low temperature physics. Articles and reviews should not have been published before or be intended for publication anywhere else.

Scope of the Journal

1. Quantum Liquids and Quantum Crystals
2. Superconductivity, Including High-Temperature Superconductivity
3. Bose–Einstein Condensation
4. Low-Temperature Magnetism
5. Electronic Properties of Conducting Systems
6. Low-Dimensional and Disordered Systems
7. Nanostructures at Low Temperatures
8. Quantum Effects in Semiconductors and Dielectrics
9. Physical Properties of Cryocrystals
10. Lattice Dynamics
11. Low-Temperature Optic Spectroscopy
12. Low-Temperature Physics of Plasticity and Strength
13. Physical Properties of Nanobiosystems
14. Ultralow-Temperature Technique and Experimental Methods

General Information

Articles should include new scientific results. The length of an article should not generally exceed 24 typewritten pages, including tables and figures.

Short Notes present information on essential results of preliminary research. The length of notes should not exceed *five* typewritten pages and contain more than *two* illustrations. The results published under this heading can be used subsequently in the text of complete article.

Letters to the Editor are for prompt publication of brief reports of high priority on discoveries and fundamentally new scientific results. The length of Letter to the Editor is the same as that for Short Note. The term of publication is within two or three months from the date of submission.

Reviews are ordered by the Editorial Board. The authors may propose a review but first they should submit a scheme and an abstract of the review for consideration.

Comments are for publication of remarks (of no more than *two* typewritten papers) to the articles published in the journal. The authors' comments to their own articles are published under the heading **Corrections**.

Under the heading **Chronicles** is published an information on conferences, symposia, seminars, etc.

The communications of new materials, instruments, and apparatus for cryogenic material are also accepted.

The journal *Fizika Nizkikh Temperatur* is published simultaneously in English translation by the American Institute of Physics under the title *Low Temperature Physics*.

Rules of Manuscript Format

The manuscript must contain:

– a title page, including the title of the article, the first initials and surnames of authors, the names and complete postal address(es) of the authors' affiliation(s) where the work was

performed (if necessary, the name and address of the authors' permanent location are stated in a footnote);

- the abstract;
- keywords;
- the text of the article;
- the references;
- the figure captions;
- the set of figures.

The title of the article should be brief but informative. Abbreviations are not allowed except for a few of the most universal standards (HTSC or high- T_c , FCC, NMR, etc.).

The abstract should summarize the main results. Formulas and literature citations in the abstract are discouraged.

Keywords (no more than 5 or 6 words) must be fundamental terms of the article.

The main text should include an *Introduction*, briefly reviewing the history of the subject and setting forth the objective of the reported investigation. The *main part* of the article should include an *experimental* and *theoretical* description of the investigation. The results are recapitulated in the *Conclusions* or *Summary*.

The journal *Fizika Nizkikh Temperatur* publishes articles in Ukrainian and English.

The manuscript should be in A4 page format (210 × 297), 12 pt font, one and a half interval (margins not less than 2 cm). The fonts used must be limited to the standard family (Times New Roman, Arial or Symbol).

The electronic version of the article completely corresponding to the typewritten one should be submitted in Microsoft Word for Windows or TeX.

Formulas and mathematical symbols should be prepared in Math Type. The font image should be distinguished: *italic* (for Latin letters), plain (for chemical formulas), **bold** (for vectors). Alphabetic indices should be in English (with explanations in the text), dimensions of physical quantities – in the SI system. It is only as a last resort that cumbersome mathematical explanations and complex notation should be used. Abbreviations should be deciphered in the text at the first mention, and specific mathematical symbols and symbols should be explained.

Illustrations should be presented in vector graphic formats: mainly CorelDRAW (CDR), Windows Meta File (WMF), or Origin (OPJ, OGG) with export options such as "Built-In Fonts" (text as "text" ", not as" curves ") in print and in electronic version. Drawings in these formats can be directly used for high quality printing.

When preparing the electronic version of the drawings (both color and black and white), the following requirements must be observed: the width of the drawing intended for one column should not exceed 8 cm and the total height of the drawings combined by one signature (Fig. 1, a, b, c ...), – 18 cm. Accordingly, the maximum dimensions of a drawing intended for placement in two columns are 16 × 18 cm. - do not conform to the designations accepted in the article.

Do not overload the drawings with minor details. When constructing graphs, avoid using unusual characters that cannot be reproduced in the caption under the drawing.

Photos submitted in the electronic version should be clear, contrasting. Acceptable color and halftone black images for photos and 3D in formats: BMP, GIF, TIFF, JPG. Colorful figures should not use colors (e.g., yellow, blue) which poorly displayed in black and white print of the journal. These formats must have resolution of at least 300 dpi.

Figures and photographs must be numbered, and the file name containing this figure must be the number of the figure.

Tables are only used if they contribute to the brevity of the presentation, or the information cannot be presented as graphs or histograms.

References are numbered and listed at the end of the article in the order in which cited in the text. The format is as follows: reference number, first initials and surnames of all authors, the name of the journal, the volume number, the first page number, and in parentheses the year of publication. The bibliographic description of a book gives the initials and surnames of the authors and the title of the book, followed by the name of the publisher, the city, and in parentheses the year of publication.

1. S.I. Beloborod'ko, *Fiz. Nizk. Temp.* **29**, 868 (2003) [*Low Temp. Phys.* **29**, 650 (2003)].
2. R. Dillenschneider, *Phys. Rev. B* **78**, 224413 (2008).
3. L.D. Landau and E.M. Lifshitz, *Fluid Mechanics*, Pergamon Press, Oxford—New York (1997).
4. K.S. Song and R.T. Williams, *Self-Trapped Excitons, Ser. Solid State Sci.*, Springer-Verlag, Berlin, Heidelberg (1993), Vol. 105.

Final Notes

1. All material is submitted in hard copy and /or electronic version. Pages should be numbered. The following should be submitted: abstracts, references, figures and tables, and captions.

2. The article is signed by all authors. The authors provide the following information: surname, name, patronymic, business and home addresses, telephone numbers, fax and e-mail. It should be specified which of the authors it is desirable to correspond with.

3. The contract of assignment on the assignment and transfer to the management of copyright is formalized, signed by all authors and submitted to the Editorial Office together with the article.

The Editorial Office sends the author one copy of proofs. Those corrections are permitted which bring the page-proof in agreement with the initial text. Essential changes would hamper the publishing process and cause the delay. The corrected proofs should be sent to the Editorial Office within twenty-four hours since their receipt.

Information for authors is published in the Journal and is also available on the journal's website <http://www.ilt.kharkov.ua/>

Materials for publication should be sent to the following address:

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