

## Column of the Editor-in-Chief of the Technical Physics



Dear authors and readers of the Technical Physics Letters,

Starting the work on the 2024 issues, we are pleased to inform you that the Technical Physics Letters ranks third among physical journals and sixth among all scientific journals in the 2022 SCIENCE INDEX rating of Russian journals published by e-LIBRARY. Surely, these successes are primarily attributable to the combined efforts of the Editorial Staff and the Editorial Board and authors for ensuring a high scientific level of publications. At the same time, we are introducing modern submission processing tools, trying to make the editorial and publishing process more convenient, transparent and fast, and ensure objective and prompt review of incoming materials.

However, I would like to focus on the important issue of formatting of articles by authors. The use of figures and tables allows for a quick and convenient transfer of large amounts of complex

information which is sometimes cannot be easily conveyed by words or such description turns out to be too cumbersome. The vivid design of graphic materials with an extensive use of color and the possibilities provided by existing graphic design packages catches the eye even with a fleet glance at the world's leading natural science magazines, regardless of their topics.

The use of the modern graphic design tools can make publications more visual and understandable, which helps to expand the community of readers and authors. Colored halftone graphs, as well as 3D graphics, have long been in use in some science fields such as computational aerodynamics and provide convenient tools for analyzing and demonstrating complex gas-dynamic phenomena (examples of such graphics are given in the appendix to the Editor-in-Chief's column, some guidelines on the design of graphic materials can be found at the following links:

<https://www.springer.com/gp/authors-editors/authorandreviewertutorials/writing-a-journal-manuscript/figures-and-tables/10285530>

[journals.ieeeauthorcenter.ieee.org/create-your-ieee-journal-article/create-graphics-for-your-article/](https://journals.ieeeauthorcenter.ieee.org/create-your-ieee-journal-article/create-graphics-for-your-article/)

Currently, Internet (online versions) is the primary distribution channel for scientific magazines, including the Technical Physics Letters. This opens up wide possibilities for the authors to use colors and halftones in the design of manuscripts, which makes graphs, diagrams and tables more informative and easy to read. The introduction of 3D graphics (projections of spatial structures onto a plane) also allows for increasing the informative value of the material helping in visualization of the functional dependencies of the analyzed quantities, etc. The advantages of the online version include the ability to use color images of appropriate quality.

The general requirements for graphic materials of manuscripts in the Technical Physics Letters are set out in the Rules for Authors (<https://journals.ioffe.ru/misc/prjtf-2023.pdf>) specifying the requirements for graphics and color patterns. Your adherence to them simplifies and speeds up the editorial and publishing process: from preliminary review of the manuscript at the Editorial Board to its scientific editing.

Graphic Abstract (one of the drawings of the manuscript with a signature or a specially prepared

drawing that most fully illustrates the main result of the work) and Highlights (text designed as a short list (3–4 points) are important elements of modern scientific publications reflecting the main content and key findings of the your work). Unfortunately, we currently do not have the technical capability to publish these elements. But the Technical Physics Letters Editorial Board plans to introduce them in the near future and already now encourages our authors to send their manuscripts with Graphic Abstract and Highlights (separate files). This will facilitate and speed up the editorial process, and, on the other hand, will help the authors to emphasize the key highlights in the manuscript and stress important topics.

The authors when preparing a manuscript for submission to the Technical Physics Letters should keep in mind that reader's acquaintance with an article often begins with viewing graphic materials. The graphics should be bright and clearly display the key findings so that the acquaintance not be limited with the graphics.

Dear readers and authors of the Technical Physics Letters,

I wish you a Happy New Year — the year of the 300th anniversary of the Russian Academy of Sciences. I wish you good health and creative success!

Chief Editor of the Technical Physics Letters

Academician  
of the Russian  
Academy of Sciences



A.G. Zabrodsky

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