***SAMPLE COVER PAGE***

***(for the case when there are no more than four authors)***

DOI: http://doi.org/10.17586/1023-5086-2024-91-ХХ-ХХ-ХХ

**Title of the Article**

Alexander Stepanovich Popov1, Vladimir Dmitrievich Kuznetsov2, Alexander Borisovich Sapozhnikov3🖂, Vladimir Nikolaevich Kessenikh4

*1St. Petersburg University, St. Petersburg, Russia*

*2, 3, 4Tomsk State University, Tomsk, Russia*

1aspopov@mail.spu.re https://orcid.org/0000-ХХХХ-ХХХХ-ХХХХ

2vdkuznetsov@mail.tsu.su https://orcid.org/0000-ХХХХ-ХХХХ-ХХХХ

3absapozhnikov@mail.tsu.su https://orcid.org/0000-ХХХХ-ХХХХ-ХХХХ

4vnkessenikh@mail.tsu.su [https://orcid.org/0000-ХХХХ-ХХХХ-ХХХХ](https://orcid.org/0000-0001-6862-)

**Abstract**

**Subject of study. It is necessary to present the scientific content of the article in the form of a short abstract of about 150-200 words.** **The abstract should begin with the content of the scientific research, the subject to which the researcher’s attention is directed. Aim of study. The purpose and title of the article must match each other. The purpose of the work should be formulated as a planned result (establishment of dependence, device, material, etc.), and not as a process (research, analysis, etc.).** **Method. Theoretical and experimental methods or methodologies for carrying out the work must be described. Main results. The results must be consistent with the goal and reflect the scientific novelty of the results achieved. Practical significance. The scope of application of the presented results should be reflected.** **It is unacceptable to use abbreviations, abbreviations and formulas in the Abstract.**

**Keywords: The total number of keywords is no less than 5 and no more than 15. Key words (phrases) are separated by commas and must reflect the information presented in the article. The main keyword is listed first.**

**Acknowledgment: Information is provided on the sources of funding for the work, the names of scientific grants, and information about persons who contributed to the research and preparation of the manuscript of the article is provided. For example, “the work was supported by the Ministry of Science and Higher Education of the Russian Federation, project No. ABCD–202Х–ХХХХ.**

**For citation: Popov A.S., Kuznetsov V.D., Sapozhnikov A.B., Kessenikh V.N. Title of the article // Opticheskii Zhurnal. 2024. V. 91. № ХХ. P. ХХ–ХХ. http://doi.org/10.17586/1023-5086-2024-91-ХХ-ХХ-ХХ**

**OCIS codes: ХХХ.ХХХХ, ХХХ.ХХХХ, ХХХ.ХХХХ (codes should be listed in order of importance)**

***SAMPLE COVER PAGE***

***(for the case when there are more than four authors)***

DOI: 10.17586/1023-5086-2024-91-ХХ-ХХ-ХХ

**Title of the Article**

V. N. Kessenikh, A. S. Popov, V. D. Kuznetsov, A. B. Sapozhnikov,

K. A. Vodopyanov, S. V. Malianov

*Tomsk State University, Tomsk,* *Russia*

**Abstract**

**Subject of study. It is necessary to present the scientific content of the article in the form of a short abstract of about 150-200 words. The abstract should begin with the content of the scientific research, the subject to which the researcher’s attention is directed. Aim of study. The purpose and title of the article must match each other. The purpose of the work should be formulated as a planned result (establishment of dependence, device, material, etc.), and not as a process (research, analysis, etc.).** **Method. Theoretical and experimental methods or methodologies for carrying out the work must be described. Main results. The results must be consistent with the goal and reflect the scientific novelty of the results achieved. Practical significance. The scope of application of the presented results should be reflected.** **It is unacceptable to use abbreviations, abbreviations and formulas in the Abstract.**

**Keywords: The total number of keywords is no less than 5 and no more than 15. Key words (phrases) are separated by commas and must reflect the information presented in the article. The main keyword is listed first.**

**Acknowledgment: Information is provided on the sources of funding for the work, the names of scientific grants, and information about persons who contributed to the research and preparation of the manuscript of the article is provided. For example, “the work was supported by the Ministry of Science and Higher Education of the Russian Federation, project No. ABCD–202Х–ХХХХ.**

**For citation:** Popov A.S., Kuznetsov V.D., Sapozhnikov A.B., Kessenikh V.N. Title of the article // Opticheskii Zhurnal. 2024. V. 91. № ХХ. P. ХХ–ХХ. http://doi.org/10.17586/1023-5086-2024-91-ХХ-ХХ-ХХ

**OCIS codes: ХХХ.ХХХХ, ХХХ.ХХХХ, ХХХ.ХХХХ (codes should be listed in order of importance)**

The volume of the article, including illustrations, tables and bibliography, should not exceed 20 A4 pages, the number of figures should not exceed 7.

The main text is typed in Times New Roman font, size 14 pt normal, Times New Roman font, 14 pt, line spacing 1.5 (one and a half), margins - 30 mm on the left, 20 mm on the top and bottom, 10 mm on the right. Paragraph indent 10 mm.

The main text should contain

- Introduction

- Sections of the main part with meaningful names

- Conclusion

- List of sources

The introduction, sections and conclusion are not numbered.

**INTRODUCTION**

In the Introduction, it is necessary to present a meaningful statement of the problem under study, a justification for the relevance of the work being presented, confirmed by the needs of the development of science, technology, and society, a brief analysis of solutions known from the scientific literature (with links to sources), and the advantages (features) of the proposed approach. A clear statement and formulation of the purpose of the work is required. The goal of the work should be formulated as a planned result, and not as a process (research, analysis, etc.).

The article and the abstract are separate documents about the same work, so the purpose statements in the article (in the Introduction) and in the abstract must match. The presence of a goal statement in the abstract does not negate the need to formulate it in the Introduction. The goal can be decomposed into several tasks, which are also formulated in the introduction and are consistently solved in the main part of the article.

References to journal publications of recent years should confirm the relevance of the work.

**SECTION NAME**

The main (substantive) part of the work should present and thoroughly explain (prove) the obtained statements and conclusions, and present the results of theoretical and experimental studies or mathematical modeling illustrating the statements made.

The text must be accompanied by links to sources that disclose the theoretical and methodological foundations of the presented work.

The main part of the work should be structured into sections. Sections should have meaningful titles. A name like “Main part” is not allowed.

It is recommended to avoid the use of subsections and subsubsections whenever possible.

Throughout the article, it is necessary to observe a single principle of using conventional letter designations and symbols with their obligatory explanation the first time they are used in a text or formula. It is not permitted to use the same symbols or letters to designate different physical and/or mathematical quantities.

Indexes of variables and constants in text and formulas must be in the Latin and Greek alphabets only. Abbreviations of words of the Latin alphabet, always used in superscripts and subscripts, should be typed directly without a period. Type all letters of the Greek alphabet in roman font.

Abbreviations made up of capital letters of the Latin alphabets should be typed directly.

Type vector quantities in straight bold font without arrows at the top. Type mathematical symbols like rot, div, lg, lim, exp, sin, etc. directly.

Type symbols of chemical elements and formulas of chemical compounds in straight font.

In all other cases not listed above, letters of the Latin alphabet should be typed in italics.

In the main text, only generally accepted abbreviations are allowed: etc., i.e. Abbreviations introduced by authors must be spelled out the first time they are mentioned in the main text of the article.

In the text, replacing words with mathematical signs is not allowed: you should write “equals”, and not “=”; “about”, not “~”; “less”, not “<”; “more”, not “>”; “no less”, not “≥”; “no more”, not “≤”.

The term “order” should be used with caution – only if we are talking about the order of a decimal value (correctly – “about 108”, incorrectly – “about 1.4”).

**Subsection title**

Formulas should not have more than two “floors”. You should use, for example, exp(−x) instead of *e−x*, and also use a slash when writing fractions, separating the numerator and denominator or the entire fraction from other members of the formula, if necessary, using parentheses.

Do not use the multiplication sign in formulas. The symbol “×” should be used only to denote a vector product, in a combination of numbers like 5×104, to denote the magnification factor (2×), when indicating the size (2×2), and also in the case of splitting a formula when transferring.

The symbol “·” should only be used to denote the scalar product of vectors, as well as in chemical formulas (CuSO4·5H2O).

Do not insert designations of units of physical quantities into formulas! Complex dimensions with a digital value of a physical quantity should be typed without using the multiplication sign.

Continuous numbering is used for basic formulas. Formulas with numbers must be typed on a separate line. Formulas and expressions typed using special editors are also written on a separate line. Formulas and symbols of quantities in the text, that is, inside a paragraph, should be typed in text mode. When typing a formula, you should not use formula and text modes at the same time.

You can use the following formula editors: Microsoft Equation and Mathtype without changing the standard settings (you should not change fonts and sizes yourself, or add spaces).

Tables must be made in Word or Excel, have a serial number and title. Tables are not inserted into the text and are placed after the **Captions for the figures**.

The table header should not contain empty columns. The reference material in the table should be accompanied by references to relevant literature.

General comments on the contents of the table are printed below the table after the word “Note”.

The entire text part, including the title page, list of sources, captions for figures, is presented in one file.

***Subsubsection name***

The figures are attached to the article text file in the form of separate files in two versions - with designations (numeric and alphabetic) and without them (“blind”).

The submitted drawings must not be converted, but originally produced in the following extensions:

• photographs and raster illustrations must be in \*.tif, \*.png, \*.jpg, \*.bmp formats with maximum resolution (at least 300 pixels/inch);

• vector drawings, graphs, diagrams, diagrams must be made in vector programs: Visio, Excel, Adobe Illustrator. Files made in Origin, Coreldraw, AutoCad, Compass or Matlab programs should be exported to \*.ai, \*.wmf formats.

.pdf copies are attached to drawings made in graphic formats.

Pictures with .doc and .docx extensions are not allowed.

The field of the drawing should be used as much as possible due to the choice of scales along the axes and the rational placement of illustrative material.

Scale marks on the coordinate axes should be turned inside the graph field. Their number in the case of a linear scale should be no more than 5-7 with digitization every other one.

There should be no inscriptions on the figures; whenever possible, only alphabetic and numerical designations should be used, the explanation of which is given in the caption to the figure.

If graphs in a certain range of argument values ​​visually “merge,” this range should either be excluded or depicted separately on a scale suitable for resolving the curves.

To identify curves in signatures, they are digitized and reproduction of symbols (circles, triangles, squares, asterisks, etc.) is not allowed.

Captions for figures are placed after the **REFERENCES**.

Figures should be in color, if possible, for the electronic version of the journal posted on the Internet.

In the printed version of the journal, only those drawings in which color carries basic information or plays a decisive role in its understanding will remain in color; the remaining drawings are made in black and white halftone.

The simultaneous use of tables and figures to present the same work results is not permitted. Figures are numbered in accordance with the order of their mention in the text of the article.

**CONCLUSION**

The Conclusion provides the main conclusions on the content of the work. It is necessary to briefly formulate the scientific novelty, the main results, comment on them and, if possible, indicate directions for further research and areas of application. Simply listing the material presented in the article should be avoided. The **Conclusion** must show the achievement of the goal stated in the **Introduction**.

**REFERENCES**

The list of references is placed after the Conclusion with the subtitle “REFERENCES” with numbering without brackets. Positions are numbered according to the order of their appearance in the text. The text of the article must contain links to all items in the list of references.

The text provides a reference with a number in square brackets (for example, [1], [3−5, 7]). The range of links is indicated by a dash. Bibliographic references are prepared in accordance with GOST 7.0.5-2008.

If a printed publication has a digital DOI object identifier, it is indicated at the end of the link using the template: http://doi.org/10.17586/1023-5086-2023-90-01-03-11

If there is a printed version of a monograph or article, you should not make a link to its electronic version.

The list of reference s should confirm the relevance and reveal the theoretical and methodological foundations of the presented work. References that are more than 10 years old should be avoided, unless citing original sources.

The recommended number of references is 15-20. At least half of the list of sources should include links to articles published in periodicals included in the Scopus and Web of Science databases. More than 3 links to publications of the authors of the article are not allowed.

Example of reference:

Mazur Ya.V., Voznesenskaya A.O. Synthesis of freeform optical surfaces using neural networks // Journal of Optical Technology. 2022. V. 89. No. 2. P. 89‒93. https://doi.org/10.1364/JOT.89.000089

If there is a DOI in a literary source, it should be indicated in the link.

**CAPTIONS FOR FIGURES**

Information about the authors is generated in a separate file.

The authors provide information in accordance with the example below. If the author considers it inappropriate to provide all the information, for example, position, then such information is not indicated. The author can indicate one or more places of work.

**AUTHOR**

**Ivan I. Ivanoff** – Academician of the RAS, Doctor of Sciences (Physics and Mathematics), Full Professor, Scientific Director of the Research Institute of OI, Full Professor of the ABCDE University, Tomsk, 123456, Russia; Scopus ID 123456789123; https://orcid.org/0000-1111-2222-3333; ii-ivanoff@mail.ru