

# Guidelines for Authors of *Instruments and Experimental Techniques*

## MANUSCRIPT CONTENT

(1) The manuscript should describe and illustrate specific applications of instruments and physical methods of experiments.

(2) The manuscript should describe the advantages of new instruments or methods shown by specific experiments.

(3) The manuscript of a review article should be written with sufficient detail to make it clear for physicists of any area specialization. It is desirable that a review have a brief introduction describing the main problems, concepts, and terminology.

(4) The manuscript should report reproducible results related to implemented and tested instruments and methods, as well as a clear idea of study goals, principles behind the methods or instrument design, performance characteristics, measurement errors, and applications.

(5) Manuscripts presenting comments to a published article and replies to them should concern only the essence of this article: physical errors, inaccuracies, alternative solutions to the problems.

(6) Manuscripts presenting brief information on a new instrument or material manufactured in a laboratory must contain its name and basic technical and performance characteristics. Information on an instrument can be supplemented with its photograph. A photograph of new material is accepted only if it gives a clear idea of its properties. A second figure with a plot or diagram characterizing the capabilities of the device is also permissible. An address should be provided for possible inquiries to the authors for additional information.

(7) The length of review and regular articles submitted for publication in the journal is not limited. The maximum lengths of other manuscripts are as follows: comments and replies, two pages and one figure; brief information on instruments manufactured in laboratories, two pages and one figure.

(8) Manuscripts of review and regular articles must contain an informative abstract.

## SUBMISSION AND FORMAT

(1) The manuscript must be signed by all authors. The name and address of the corresponding author and affiliations of all authors should be indicated.

(2) All manuscripts should be submitted together with the completed [copyright transfer agreement](#) signed by all authors, scanned and prepared as a PDF file.

(3) Manuscripts should be presented in print and electronic formats. The best variant is to submit a manuscript by e-mail and a print copy signed by the authors by regular mail. Note that the editorial board does not accept registered mail.

(4) The manuscript must be printed using a standard font and double line spacing on one side. All pages must be numbered.

(5) The address, list of authors, phone and fax numbers, e-mail addresses must be included in the manuscript.

(6) Footnotes must have consecutive numbering throughout the paper.

(7) The list of references should be given at the end of a manuscript. References in text should be presented as numbers in square brackets (e.g., [1]). Each reference should correspond to one source. The same source should not be cited in more than two references. All authors should be indicated in each reference. References should have formats as in the examples below:

### (a) *Journal articles*

Von Hellermann, M.G., Mandl, W., Summers, H.P., Weisen, H., Boileau, A., Morgan, P.D., Morsi, H., Koenig, R., Stamp, M.F., and Wolf, R., *Rev. Sci. Instrum.*, 1990, vol. 61, no. 11 p. 3479–3486.

Rich, J.A., Prescott, L.E., and Cobine, J.D., *J.*

*Appl. Phys.*, 1971, vol. 42, p. 587–592.

(b) *Books*

Erturk, A. and Inman, D.J., *Piezoelectric Energy Harvesting*, Chichester: Wiley, 2011.

Rich, J.A., Farrall, G.A., Imam, I., and Sofianek, J.C., *Development of a High-Power Vacuum Interrupter*, Schenectady: General Electric, 1981.

(c) *Collections of articles and conference proceedings*

Vasuki, B., Sathiya, S., and Suresh, K., A new piezoelectric laminated cantilever resonance based hydraulic pump, *Proc. IEEE Sensor and Applications Symp.*, Galveston, 2013, pp. 197–201.

Lin, X., Hu, X., and Zhang, J., Theoretical and experimental research of caudal-fin-type piezoelectric-stack pump with variable-cross-section oscillating vibrato, *Proc. IEEE Intl. Conf. Mechatron. Autom.*, 2011, pp. 1433–1438.

(8) Commercial devices and materials mentioned in a manuscript must their certified names; their types, brand names, and companies that produce them must be given (with specified cities, countries, and Internet sites).

(9) Drawings, diagrams, and plots must have a format ensuring clear understanding of all details. Figures must be compact in order to save space. Figures with a width of ~8 cm (one column), ~17 cm (two columns), and a size of 17 × 23 cm (the entire page) are most convenient for printing. Thus, it is desirable to draw elements and inscriptions so that, when scaling a figure to one of these dimensions, letters and numbers are 1.5–2.0 mm high, circuit elements are 3–5 mm high, individual dots have a size of 1 mm, and lines are separated by spacing of at least 1–2 mm.

The values of circuit components must be written directly on diagrams (e.g., 1 Ω; 5.6 Ω; 2 MΩ; 1 GΩ; 15 pF; 2.2 nF; 1.0 μF). Circuit components should have standard designations. All figures should be thoroughly checked.

(10) Photographs of the most interesting details or general views of the described instruments and those obtained in experiments (oscillograph records, tg tracks in chambers, microscopic images, etc.) should be of high quality.

(11) If the editorial board asks the authors to revise the manuscript, the authors must do so

within two months, otherwise the manuscript is considered newly submitted.

(12) If upon submission, it becomes necessary to change the list of coauthors, this can be done only by a written request signed by all coauthors with the obligatory consent of all persons (or their legal successors) included in or withdrawn from the list.

(13) The electronic version of a manuscript must include a file containing the main text, tables, and files of illustrations. If the main text and illustrations are in a single file, the files of illustrations must also be submitted separately. The set of files must be accompanied by a list in the form of a file, which must contain the name of the journal, the names and initials of the authors, and the list of files. It is desirable to send files by e-mail and to archive them with commonly used archive tools.

## GRAPHICS

Black and white illustrations are prepared using image editing tools. Vector graphics must be presented in the format of the respective computer program or in EPS format; other pictures and photographs should be presented in TIFF, JPEG, and GIF formats with an resolution of at least 300 dpi.

Graphics can also be presented in the form of scanned images in TIFF, JPEG, and GIF formats with a resolution of 600 dpi. Graphics files must be named for clarity to what article they belong and what figure number each file corresponds to. Each file should contain one figure.

## TEXT

(1) DOC or RTF formats should be used for the main text.

(2) The file must include manuscript title, abstract, the main text, list of references, a separate page for figure captions, and tables (each on an individual page). Structural chemical formulas and diagrams are positioned at their places in the text.

(3) Standard TrueType fonts with a point size of 12 must be used.

(4) Use indents and tabulation, not repeated spaces.

(5) Do not finish a line by pressing <Enter>; use it only to start a new paragraph.

(6) Tables must be compiled by using the tools of Microsoft Word or Excel.

(7) The heading should not be typeset in all capital letters.

(8) Use a dot as a decimal separator (0.25, not 0,25).

(9) Symbols \*, ', and  $\pm$ , single Greek, single italic, or boldface letters, single variables or designations that have only a superscript or subscript, units of measure, numbers in a text, and simple mathematical or chemical formulas (e.g.,  $a^2 + b^2 = c^2$ ,  $\text{H}_2\text{SO}_4$ ) must be typed in the text mode without using the Equation tool or MathType.

(10) A space must be always set between initials and name: A.A. Ivanov (except for the authors in the heading of an article, where spaces are additionally set between initials: A. A. Ivanov.

#### FORMULAS

(1) Mathematical formulas written on a separate line must be completely typed in MathType

or Equation. It is unacceptable to type formulas as combinations of different elements (consisting of a table, a text, and an introduced frame).

(2) For formulas typed in MathType or Equation, common settings of fonts, sizes of symbols, and their arrangements must be used. Forced manual changes in settings for individual symbols or elements are prohibited.

#### ELECTRONIC PROOFS

Electronic proofs as a PDF file are sent to the authors to the e-mail address indicated for the corresponding author. Files can be read and edited using Acrobat Reader. Notes must be introduced directly into the PDF file using the “Comments and Notes” toolbar. Do not use other programs for correcting PDF files; otherwise, the author’s comments may be lost during automatic processing. For the same reason, it is prohibited to change the name of the PDF file and the subject field of e-mail message. Detailed instructions will be sent to you together with the proofs.