

Guidelines for Authors of *Russian Journal of Physical Chemistry B*

Russian Journal of Physical Chemistry B publishes original and review articles on the physical aspects of chemical transformations. Manuscripts on the following main topics are accepted:

- Elementary processes (energy transfer, charge transfer, and chemical transformations).
- Structure of chemical compounds and reactivity; effects of external fields and environment on chemical transformations; molecular dynamics and molecular organization.
- Dynamics and kinetics of photo- and radiation-induced processes.
- Mechanism of chemical reactions in gas and condensed phases and at interfaces.
- Chain and thermal processes of ignition, combustion, and detonation in gases, two-phase systems, and condensed systems; shock waves.
- New physical methods for studying chemical reactions; chemical physics of biological processes; chemical physics of polymer materials; chemical physics of nanomaterials.

A manuscript should include: title, list of authors, their affiliations, e-mail address of corresponding author, abstract, keywords, main text, list of references, figure captions, figures (each on a separate page), and tables (each on a separate page).

Samples of references in the proper format are given below; note the location of the authors' initials and punctuation.

Books

S. Redner, *A Guide to First-Passage Process* (Cambridge Univ. Press, Cambridge, 2001).

Journal article

J. Cottaar, L. J. A. Koster, R. Coehoorn, and P. A. Bobbert, *Phys. Rev. Lett.* **107**, 136601 (2011).

Meeting papers

C. W. Kauffman, Y. Chuanjun, J. A. Nicholls et al., in *Proc. 19th Symposium on Combust* (The Combustion Institute, Pittsburgh, 1982), p. 591.

In preparing a manuscript, the authors should follow these guidelines.

Manuscripts should be carefully copyedited. The length of the manuscript should not exceed 40000 characters; the manuscript of a review article should be no longer than 60000 characters. The manuscript includes an abstract, text, tables, list of references, figure captions, and figures (no more than one figure per 3.5 pages of text; different panels of one figure are counted as different figures).

References to figures and tables are typed with spaces: Fig. 1, not Fig.1; Table 2. Quotation marks and parentheses are not separated by spaces from the words in them: (at 300 K); (a).

Short communications should not exceed seven pages (two figures), while letters to the editor should be no more than two pages.

A digital version of a manuscript, including figures, is submitted to the editorial board by e-mail. Information about the authors (full name, postal address with zip code, phone number, and email address) is attached on a separate page. In addition, the corresponding author should be specified. The manuscript should be sent together with a completed, signed, and scanned copy of [the copyright transfer agreement](#).

The text of the manuscript should be prepared using a 14-pt font with 1.5 line spacing; footnotes are typed in a 12-pt font with double spacing (Microsoft Word; *.doc format). There should be no more than 28–30 lines of text per page and 60–65 characters per line. Pages should be numbered in the top right corner. Manuscripts sent to authors for revision should be returned to the editorial board within the recommended period with all changes and corrections made to the text. A detailed response

to the reviewer in digital form should also be attached.

Each table should have a number and should be placed on a separate page (if there is only one table, it is not numbered). Data should not be duplicated in the text, tables, and figures.

In the list of references, citation of unpublished works is not allowed. In the text of the manuscript, the references are indicated by ordinal numbers in square brackets. Citation of several sources under one number is not allowed.

Figures (and tables) should not be inserted in the text; they are placed on separate pages. Do not clutter the figure with unnecessary details: whenever possible, insets should not be used; the majority of inscriptions should be replaced by numbers (in italics) and explained in the caption. If the figure is composed of several parts, each of them is designated with letters (a, b, c, etc.), which are placed at the center over the top of each part. The figures are referenced in the text and in the captions as Fig. 1 (capitalized); in the captions, put a full stop after the number (Fig. 1.). If there is only one figure in the manuscript, it is not numbered and referred to as *figure*.

Chemical and mathematical formulas and symbols in the text should be typed using a computer; the font of upper and lower indices should be slightly smaller than the characters in line. Avoid bulky mathematical notation, using, for example, fractional exponents instead of roots and *exp* for exponential functions. It is necessary to place numbered formulas on a separate line; the equation number is given in the right margin. Only those formulas referred to in the text are numbered.

Abbreviations of compounds and scientific terms and expressions are not allowed, except for commonly used ones (EPR, EMF, etc.).

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