

# Polymer Science

## Guidelines for Authors (February 2021)

### 1. GENERAL REMARKS

*Polymer Science* is an English-language journal containing original papers and reviews that cover all aspects of macromolecular science. It is published under the auspices of the Russian Academy of Sciences in three series, A, B, and C. Series A (Polymer Physics) is devoted to physicochemical studies of the structure and properties of polymers; series B (Polymer Chemistry) includes papers dealing with the synthesis, kinetics, catalysis, and chemical transformations of macromolecules, supramolecular structures, and polymer matrix-based composites; and series C (Selected Topics) consists of invited reviews and thematic issues. Basic-research papers are mostly invited for publication in all series. The journal also includes translations of the papers simultaneously published in Russian in *Vysokomolekulyarnye soedineniya* journal.

The journal invites authors to submit their papers regardless of country or nationality. The Editorial Board encourages the most important and interesting studies containing new results and innovative concepts or original analysis of published data. For this purpose, manuscripts are peer reviewed as a rule by two independent referees. Authors are invited to recommend appropriate referee candidates by specifying their names, affiliations, and e-mail addresses; however, an Editor maintains the right to use referees of his own choosing.

Peer reviews by referees will serve as the basis for preliminary acceptance of a manuscript for publication in one of the journal series at Editor's discretion. The manuscript is then edited to ensure clarity and logic of presentation and the quality reproduction of graphics. After submission of changes for authors' approval and introducing them into the manuscript, the paper is considered finally accepted for publication and is sent by the Editorial Office to the publishing house [Pleiades Publishers](#), which will at a later date e-mail the galley proofs to the authors as a PDF file. After publication of the paper, the publishing house sends a PDF version to the authors free of charge for noncommercial use only.

The Editorial Board has assumed obligations in conformance with the ethical guidelines based on the recommendations of international Committee on Publication Ethics (COPE). Authors and referees should follow these guidelines, available via the Internet at <http://polymsci.ru/en/static/ANK0441.pdf>. Instances of ethical violations (fictitious data, plagiarism, self-plagiarism, reference omission, and submission of papers that have been published elsewhere or have been submitted to other journals) may give cause for summary rejection of both submitted and forthcoming papers from such authors and retraction of already published papers.

### 2. SUBMISSION OF MANUSCRIPTS

Papers written by several authors should be presented by one of the authors (hereinafter, Author), who has an ORCID identifier and corresponds with the Editorial Office and the Publishing House.

Manuscripts must be submitted via the journal's Web site <http://polymsci.ru>. Our journal does not accept manuscripts sent by surface or electronic mail.

The Author may choose between the subscription-based and open access publication models. In the first case, the Author should fill in and sign the copyright transfer agreement. For an open access publication, it is replaced by the signed letter of consent. One of these documents should be submitted in the scanned form together with the manuscript. The Author Agreement Forms are available via the Internet at [http://polymsci.ru/static.php?mode=rights\\_transfer&lang=english](http://polymsci.ru/static.php?mode=rights_transfer&lang=english). The paper cannot be finally accepted for publication until the Author submits the above document. If the paper is rejected by the Editorial Board, the copyright transfer agreement is not signed by the Publisher and the letter of consent is void as well.

After revision by the authors, the manuscripts are submitted in a similar way. The deadline of manuscript revision should not exceed one month unless the authors send to the Editorial Office a

reasoned request for an extension. If this date is violated, the revised papers are regarded as newly submitted with a new date of manuscript receipt.

### 3. FORMATTING THE MANUSCRIPT

Papers should be written in legible and understandable English. Poor English may be cause for manuscript rejection. The authors who want to have their manuscript edited by a native speaker prior to submission can contact [Edanz English editing for scientists](#) or another language service.

The manuscript must be formatted as follows: first page, abstract, key words, body of the text, and figures. Schemes and chemical formulas should be typed on a computer and placed directly in the text. All pages should be numbered consecutively with the exception of figures. Figures should be placed individually on separate sheets, and the sequential number of the figure and the surname of the author should be typed at the bottom of a page.

The *first page* should be formatted strictly in accordance with the sample available at <http://polymsci.ru/en/static/page1E.pdf>. Acknowledgments of financial support are placed in footnotes.

The *abstract* of 150-200 words should contain a concise description of the main results of research and the ways in which they were achieved with emphasis being placed on novelty. The use of abbreviations in the title and abstract is strongly discouraged. Key words (from three to five) that most precisely reflect the research area of interest should be appear in alphabetical order. No less than three of these words should be selected from the list available at <http://polymsci.ru/en/static/keywordsE.pdf>.

The *main text* should begin on a new page of the manuscript and should be logically composed. If necessary (in reviews), it should be preceded by a list of contents. The main text should contain the following sections: Introduction, Experimental (Model and Method in theoretical and modeling studies), Results and Discussion, Conclusions, Appendices, Tables, Figure Captions, and References.

The introduction should be written in understandable language to attract the attention of a wide range of readers to the scientific issue touched upon in the paper. Previous results, obtained primarily in the last 5-10 years, should be mentioned, the main goal of the work should be legibly formulated, and relevance of the study should be explained.

Experiments should be described in detail to permit the work to be reproduced. It is necessary to indicate the sources and grade of materials, the type of equipment, and the experimental conditions. Samples obtained in the course of experiments should be characterized. The names of products, polymers, and testing procedures should conform to international standards adopted by the International Union of Pure and Applied Chemistry and contained in the [Purple Book](#).

The use of SI units and notations for physical quantities is acknowledged. Instead of describing well-known methods and properties, reference should be made to published data. Reference numbers should be placed in square brackets in sequence one after another. Abbreviations and other notations should be written in full upon first usage with the abbreviation or notation in parentheses, and then the abbreviation or notation should be used uniformly throughout the manuscript. Physical quantities should be italicized, while units and special mathematical symbols (e.g., max, sin, ln,  $\nabla$ ) should be typed in Roman. Use decimals, rather than fractions, with units of time or measure, for example,  $L = 7.3 \times 10^3$  m and  $E_a = 14$  kJ/mol. The use of the same notations for different units is impermissible. Mathematical formulas placed on separate lines should be enumerated consecutively with Arabic numerals in parenthesis, and chemical formulas should be denoted with Roman numerals. The text should contain references to all tables and figures. Do not cite experimental data and calculation results that are not discussed in the text, and do not use both graphs and tables to illustrate the same results.

Conclusions should not duplicate the abstract. In this section, the importance of the results discussed in the paper for development of the related research area should be substantiated and the prospects for studying the given issue should be considered.

Acknowledgments for help in the work, information about the funding bodies, declaration on conflicts of interest (mandatory), statement on author contributions, and notification of the availability of supplementary materials can be presented as separate sections according to the [publisher guidelines](#).

All tables should be numbered, have a heading, and be aligned vertically. Graphs should have subheadings and should be separated by vertical lines. Avoid using abbreviations in the tables.

Figure captions should be typed on a separate sheet.

The list of references should begin on a separate page. Do not list references that are not cited in the text. The recommended length of the list is 30-40 references for original papers and not less than 100 references for reviews. Excessive self-citation (more than 25% references to the papers by any of the coauthors) should be avoided. All references should be given in their original languages except those using a non-Latin alphabet, which should be translated into English. Whenever possible, avoid using references to unpublished results. Papers that are accepted for publication may be cited with the journal's name followed by their Digital Object Identifier (DOI).

References should be listed in the following style:

1. M. Doi and S. F. Edwards, *Theory of Polymer Dynamics* (Acad. Press, New York, 1986).
2. *Transreactions in Condensation Polymers*, Ed. by S. Fakirov (Wiley, Weinheim, 1999).
3. A. Milchev, W. Paul, and K. Binder, *J. Chem. Phys.* 99, 4786 (1993).
4. J. Kressler, in *Proceedings of 1 Int. Symp. "Reactive Polymers in Inhomogeneous Systems, in Melts and at Interfaces," Dresden, 2000*, p. L10.
5. G. Benayoun, *PhD Thesis* (Univ. Joseph Fourier, Grenoble, 2001).
6. F. R. Lyle, US Patent No. 5 973 257 (1985).

*Figures* should be prepared on a computer. In general, color figures are not accepted: In rare cases, color printing of individual artwork is possible on condition that the author assumes the extra costs. It is recommended that the size of the figure in the manuscript be reproducible in the final printed version without scaling. Keep words and figures within the artwork to a minimum. Curves should be numbered and the numbers must be explained in the figure captions. Enlarged figure parts could be shown as separate figures rather than insets. For scanned photographs, indicate orientation (top-bottom) and scale.

The paper may contain Electronic Supplementary Material (ESM) comprising the details of experiments, schemes, tables, and figures (including color ones) that overburden the main text but are of importance for experts in the corresponding fields of science. ESM of a published paper is available on the Internet for free. The authors are requested to mention the presence of ESM in the cover letter and to fill in a separate [copyright transfer agreement](#) for supplementary materials.

#### 4. PREPARATION OF THE ELECTRONIC VERSION

The electronic version of the manuscript should consist of the main text file and separate figure files (one figure per file). For convenience of peer review, the author could additionally submit a DOC, RTF or PDF file in which figures are directly inserted into the text. Electronic Supplementary Material, if any, should be submitted as one zip-archive.

The files thus prepared should be submitted online at <http://polymsci.ru> according to the instructions available on this site. When the revised manuscript is submitted, the figures should be refreshed regardless of which files have been changed.

The text file should be prepared with the latest available version of Microsoft Word for Windows. The authors are encouraged to use a template dot-file that can be downloaded from <http://polymsci.ru/en/static/AuthorTools.dot.php>. The text should be typed with a line spacing of 1.5 in 12-point Times New Roman font. The Enter key should be used only to start a new paragraph, which should begin with an indented line (1 cm indentation). Margins of 2.5 cm should be left at the bottom and both sides of each page, and a margin of 2 cm should be left at the top. The standard Word function is used for typing tables, and complex mathematic formulas should be typed with the MS Word Equation Editor or MathType. It is desirable to draw chemical structures with special programs (e.g., ChemDraw).

Manuscripts in LaTeX 2 $\epsilon$  format can be submitted if they are prepared using special packages available at <http://pleiades.online/en/authors/guidlines/prepare-electronic-version/tex-latex> along with more detailed guidelines for TeX-users.

TIFF is the best format for figures (scanned graphics) and photographs, and EPS is preferable for vector graphics. Submission of figures in JPG, GIF, and DOC formats is admissible as well. Hand-drawn and then scanned figures are not accepted. High-resolution files (no less than 600 dpi for black and white line art and 300 dpi for 256 grayscale art) are desirable. Lines in the figures should be no thinner than 0.5 pt, and lettering should be no smaller than 5 pt. If the author submits artwork that needs to be reduced, he should use larger lettering and thicker lines so that, when reduced, the artwork meets the above-mentioned parameters. The best fonts for figure captions are Arial and Helvetica. See [sample figure](#) for the axis design.

The authors are encouraged to check files of the electronic version for computer viruses before submission. If the Editorial Office detects viruses, the submitted files will be deleted immediately.

Manuscripts that do not conform to these instructions will be rejected without consideration of content.

**The Editorial Board of the journal wishes the authors success in their scientific activity and will provide them any support in the publication of new, interesting results.**

**Contact Information:**

Editorial Office, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Leninskii pr. 29, Moscow, GSP-1 119991 Russia (Phone: +7-495-955-48-95, fax: +7-495-633-85-20, e-mail: vms@ips.ac.ru, and Web site <http://polymsci.ru>). The Director of Editorial Services for the journal is Mrs. Elena G. Gorshenina.