

## INSTRUCTIONS FOR AUTHORS

Please follow these instructions carefully to ensure that the review and publication of your paper are as quick and efficient as possible. These notes may be copied freely. The electronic version of these notes is freely available for download on the web page of Chemistry Journal of Moldova (consult the section of the site **Instructions for authors** [www.cjm.asm.md/author\\_instructions](http://www.cjm.asm.md/author_instructions)). Instruction notes and an example of manuscript formatting are available in the MS Word template file that can be found on the web page of Chemistry Journal of Moldova ([www.cjm.asm.md](http://www.cjm.asm.md)).

### Journal policy

“Chemistry Journal of Moldova. General, Industrial and Ecological Chemistry” seeks to publish experimental or theoretical research results of outstanding significance and timeliness in all fields of Chemistry, including Industrial and Ecological Chemistry. The main goal of this edition is strengthening the Chemical Society of Moldova, following development of research in Moldovan chemical institutions and promotion of their collaboration with international chemical community.

### Fields of research:

- |                         |  |  |
|-------------------------|--|--|
| 1. Analytical chemistry | 4. Industrial chemistry                    | 7. Organic chemistry                       |
| 2. Ecological chemistry | 5. Inorganic and coordination chemistry    | 8. Physical chemistry and chemical physics |
| 3. Food chemistry       | 6. Natural product chemistry and synthesis | 9. Supramolecular chemistry                |

Publications may be in the form of *Short Communications*, *Research Papers* and *Review Papers*.

*Short Communications* should describe preliminary results of an investigation and for their significance are due to rapid communication. For this kind of publications, experimental confirmation is required only for the final conclusion of the communication. Maximum allowed length – 4 pages.

*Research Papers* should describe original research in chemistry of high quality and timeliness. Experimental work should be accompanied by full experimental details. Priority will be given to those contributions describing scientific work having as broad appeal as possible to the diverse readership. Maximum allowed length – 10 pages.

*Review Papers* are specially commissioned reviews of research results of topical importance. Maximum allowed length – 20 pages.

The language of submission is English, articles in other languages will not be considered. Papers are submitted on the understanding that the subject matter has not been previously published and is not being submitted elsewhere.

Authors must accept full responsibility for the factual accuracy of the data presented and should obtain any authorization necessary for publication.

The contents of papers are the sole responsibility of the authors, and publication shall not imply the concurrence of the Editors or Publisher.

All manuscripts are sent to referees who advise the Editor on the matter of acceptance in accordance with the high standards required.

Referees' names are not disclosed, but their views are forwarded by the Editor to the authors for consideration.

Authors are strongly encouraged to suggest the names and addresses of suitable referees.

### Journal conventions

#### Nomenclature

Authors will find the following reference books and websites useful for recommended nomenclature:

- IUPAC Nomenclature of Organic Chemistry; Rigaudy, J.; Klesney, S.P., Eds; Pergamon: Oxford, 1979.
- A Guide to IUPAC Nomenclature of Organic Compounds (Recommendations 1993); Panico, R.; Powell, W.H.; Richer, J.C., Eds. Blackwell Publishing: Oxford, 1993.
- <http://www.acdlabs.com/iupac/nomenclature>
- <http://www.chem.qmul.ac.uk/iupac/>

It is the responsibility of the author to provide correct chemical nomenclature.

#### X-ray crystallographic data

Prior to submission of the manuscript, the author should deposit crystallographic data for organic and metal-organic structures with the Cambridge Crystallographic Data Centre (CCDC). The data, without structure factors, should be sent by e-mail to: [deposit@ccdc.cam.ac.uk](mailto:deposit@ccdc.cam.ac.uk), as an ASCII file, in CIF format. CCDC deposition numbers (one per structure deposited) should be included with the following standard text in the manuscript: “CCDC-\*\*\*\*\*” -

contains the supplementary crystallographic data for this paper. These data can be obtained free of charge via <http://www.ccdc.cam.ac.uk/conts/retrieving.html>. Deposited data may be accessed by the journal and checked as part of the refereeing process. If data are revised prior to publication, a replacement file should be sent to CCDC.

#### *Experimental*

Authors should be as concise as possible in experimental descriptions. The experimental section must contain all the information necessary to guarantee reproducibility. An introductory paragraph containing information concerning solvents, sources of less common starting materials, special equipment, etc. should be provided. The procedures should be written in the past tense and include the weight, mmol, volume, etc. in brackets after the names of the substances or solvents. General reaction conditions should be given only once. The title of an experiment should include the chemical name and compound number of the product prepared; subsequently, these compounds should be identified by their number. Details of the work up procedure must be included. An experimental procedure is not normally required for known compounds prepared by a literature procedure; in such cases, the reference will suffice. For known compounds prepared by a novel procedure, comparative data together with the literature reference are required (*e.g.* m.p. and published m.p. with a reference to the latter).

#### *Characterization of new compounds*

All new compounds should be fully characterized with relevant physical and spectroscopic data, normally including compound description, m.p./b.p. if appropriate, IR, NMR, MS and  $[a]_D$  values for enantiopure compounds. In addition, microanalyses should be included whenever possible. Under appropriate circumstances, and at the Editor's discretion, high resolution mass data may serve in lieu of microanalyses; in this case a statement must be included regarding the purity of the products and how this was determined [*e.g.* all new compounds were determined to be >95% pure by HPLC (or GLC or  $^1\text{H}$  NMR spectroscopy)]. For compound libraries prepared by combinatorial methods, a significant number of diverse examples must be fully characterized (normally half of the members for libraries up to 40 compounds, 20 representative examples for bigger libraries). Resin-bound intermediates do not have to be fully characterized if acceptable characterization of released products is provided. No supplementary data are accepted in addition to the basic material.

#### **Manuscript preparation**

Please follow these guidelines for manuscript preparation. Please ensure that the required formats for text and figure submission are followed strictly.

#### **General requirements**

Manuscripts will be accepted only in electronic form in A4 format, orientation *Portrait*, one column layout, single-spaced, margins 2.15 cm on all sides. Ensure that each new paragraph is clearly indicated, using TAB at 1.25 pts. Manuscript must be edited in Times New Roman font. Authors are also kindly requested to adhere to the formatting instructions for font size and layout. Use the automatic page numbering function.

**Please ensure that the required formats for text and figure submission are followed strictly. MS Word template can be found on the web page of Chemistry Journal of Moldova ([www.cjm.asm.md](http://www.cjm.asm.md)). Use of this template is mandatory.**

The manuscript should be compiled in the order depending on the paper type.

A theoretical or physicochemical paper normally contains the *Title, Authors, Affiliations, Abstract, Keywords*, a brief *Introduction* and formulation of the problem, an *Experimental* (or methodological part), *Results and discussion, Conclusions*, followed by *Acknowledgments* and *References*.

A paper devoted to synthesis contains the *Title, Authors, Affiliations, Abstract, Keywords, Introduction, Results and discussion, Conclusions, Experimental, Acknowledgments* and *References*.

#### **Title**

The title should be brief, specific and rich in informative words. Avoid the abbreviations where is possible. The title is in size 14 pt Bold (all capital letters).

#### **Authors and affiliations**

Include all authors in a single list. The style for the names is: first name, last name (full names, without initials). The names of the authors must be written in size 12 pt and separated by a comma.

**Note:** *Authors are expected to consider carefully the list and order of authors before submitting their manuscript and provide the definite list of authors at the time of submission. Any addition, deletion or rearrangement in the list of authors should be made before the acceptance for publication and only if approved by the Editor.*

Affiliations should be as detailed as possible and must include the country name and must be written in size 9 pt *Italic*.

*Note: If affiliation of an author changes during the manuscript processing, the corresponding author is expected to disclose this information in an email to the Editor.*

The **corresponding author** should be indicated with an asterisk, and contact details (e-mail, phone, fax) should be placed after nomination of affiliations. There should be only one corresponding author.

An example of formatting for authors and affiliations is available in the MS Word template that can be found on the web page of Chemistry Journal of Moldova ([www.cjm.asm.md](http://www.cjm.asm.md)).

### Abstract

Authors must include a short abstract **of maximum 10 lines** that states briefly the purpose of the research, the principal results and major conclusions. Compound numbers should not be mentioned in the abstract. The abstract body is 9 pt in size with the heading in Bold.

### Keywords

Authors are expected to provide a maximum of 5 keywords, separated by a comma (10 pt, Normal). These keywords will facilitate database searching. Avoid general, plural terms and multiple concepts (avoid, for example, “and”, “of”).

### Text

Text should be subdivided in the simplest possible way consistent with clarity. Headings should reflect the relative importance of the sections. The text body is 10 pt in size Times New Roman font with the heading in Bold. Ensure that all tables, figures and schemes are cited in the text in numerical order. The graphics and artworks should be integrated in the paper.

Trade names should have an initial capital letter, and trademark protection should be acknowledged in the standard fashion, using the superscripted characters TM and ® for trademarks and registered trademarks respectively (although not for words which have entered common usage, *e.g.* pyrex).

Authors are requested to draw attention to hazardous materials or procedures by adding the word CAUTION followed by a brief descriptive phrase and literature references if appropriate.

*Abbreviations* must be defined at the first mention in the text and used consistently thereafter.

SI units must be used throughout.

In order to avoid possible confusion between the numeral 1 (one) and the lower-case letter l (el), please use the capital letter L to express liter units.

Decimal numbers should be expressed using the point (do not use comma).

*Experimental* information should be as concise as possible, but it should contain all the information necessary to guarantee reproducibility.

*Tables* should be edited considering the requirements indicated below.

Tables should be centered and should occupy the full width of the page.

Table must fit in a size of a page A4, Portrait. Vertical lines should not be used.

If table transfers partially to the next page it should be mentioned on the next page that this is a continuation of the table and the headings must be indicated again.

All table columns should have a brief explanatory heading typed in *Italic* and where appropriate, units of measurement.

The punctuation at the end of the table title must be used.

All tables should be cited in the text, and numbered in order of appearance with Arabic numerals. Tables should be numbered sequentially—“Table 1”, “Table 2”, and should be cited in the text as “Table 1”, “Table 2”.

An example of Tables formatting is available in the MS Word template that can be found on the web page of Chemistry Journal of Moldova ([www.cjm.asm.md](http://www.cjm.asm.md)).

*Figures, schemes and equations* must be cited in the text and numbered with Arabic numerals in order of appearance; other graphics should be placed at a particular position in the text but not specifically referenced.

*Figures and schemes* should normally be centered.

Figures are placed as close as possible, and ideally after, the point where they are first mentioned in the text. Figures should be numbered sequentially—“Figure 1”, “Figure 2”, and should be cited in the text as “Figure 1”, “Figure 2”.

Each figure should have a concise caption describing accurately what figure depicts. Figure captions begin with the term Figure, followed by figure number, punctuation and figure title, all in Bold type. Also, use the punctuation at the end of the caption. We recommend placing figures and their captions in a table with no margins.

An example of Figures formatting is available in the MS Word template that can be found on the web page of Chemistry Journal of Moldova ([www.cjm.asm.md](http://www.cjm.asm.md)).

For figure lettering it is best to use only Arial or Helvetica font. Keep the lettering consistently through the finalized artwork (about 10 pt). Variance of the size of lettering in the same illustration should be minimal. Do not include titles and captions within the illustrations.

Chemical structures must be edited using the following settings: font 7 pt Arial, chain angle 120°, bond spacing 20% of length, fixed length 0.43 cm, Bold width 0.056 cm, line width 0.016 cm, margin width 0.044 cm and hash spacing 0.062 cm. Compound numbers should be in Bold face.

**Figures must be submitted in a very good resolution (but do not submit graphics that are disproportionately large for the content).**

Figures will be printed in black and white. In case of color artwork, make sure that the main information will still be visible when printed black and white. Many colors are not distinguishable from one another when converted to black and white. Color artwork will be available only in the electronic form of the published articles on the web page of Chemistry Journal of Moldova ([www.cjm.asm.md](http://www.cjm.asm.md)). The quality of the figures must be such that they can be reproduced directly after size reduction and the numbers, letters, and symbols must be large enough to still be legible. Figures should be sent with the highest resolution possible (at least 300 dpi).

**Figure and table titles must be typed in Bold and should appear below the figures and above the tables. If you are using previously published material please include the source in the form of reference citation at the end of the figure caption and/or table title.**

*Equations and formulas* will be edited using Equation Editor or MathType (version 1999-2003). Quote them on the right side, between brackets. Equation must be cited in text as “Eq.(1)”, “Eq.(2)”.

$$\lambda = 2d \sin\left(\frac{\Theta}{2}\right) \quad (2)$$

Please use size 10 pt and *Italic* for symbols, Bold face for vectors and normal fonts for standard functions (i.e. log, ln, exp) and subscripts (i.e. //<sub>app</sub><sup>i</sup>).

Large and complex chemical formulas should be presented in text as figures.

Please follow the IUPAC nomenclature for your chemical compound.

## Conclusions

Concluding section will provide a summary of the main obtained results, formulated in a concise form. The author must not indicate the literature references in this section.

## Acknowledgments

This is an optional section. The authors have to decide acknowledgement of certain collaborators, funds or programs who contributed in a way to the research described in the paper.

## References

In the text, references should be indicated by Arabic numerals taken in square brackets, which run consecutively through the paper and appear before any punctuation; ensure that all references are cited in the text and vice versa.

References should be numbered in the text in the order they are cited [1]. Multiple consecutive references may be indicated as [2-5].

Do not cite references in the abstract and conclusions.

**References should be written in English only. If it's in a different language then the reference must be translated with an appropriate title in English. The original language must be indicated in round brackets.**

Complete bibliographic information for all cited references is required.

**Each reference should contain only one literature citation.**

The following style must be used for all contributions:

### **Books:**

1. Katritzky, A.R. Handbook of Organic Chemistry. Pergamon: Oxford, 1985, 200 p.
2. Wipke, W.T.; Heller, S.R.; Feldmann, R.J.; Hyde, E. Eds. Computer representation and manipulation of chemical information. John Wiley: New York, 1974, pp. 287-298.

### **Symposia volumes:**

3. Bravo-Suárez, J.; Kidder, M.K.; Schwartz, V. Novel Materials for Catalysis and Fuels Processing. ACS Symposium Series; American Chemical Society: Washington, DC, 2013, vol. 1132, 400 p.

### **Translated journal papers:**

4. Garaba, V. Problems of water supply in rural localities. Environment, 2005, 19, pp. 19-22. (in Romanian).

5. Magerramov, A.M.; Ramazanov, M.A.; Gadzhiyeva, F.V. Investigation of the structure and dielectric properties of nanocomposites based on polypropylene and zirconia nanoparticles. *Surface Engineering and Applied Electrochemistry*, 2013, 49(5), pp. 1-5. (in Russian).

**Journal papers:**

6. Shin, S.; Yoon, H.; Jang, J. Polymer-encapsulated iron oxide nanoparticles as highly efficient Fenton catalysts. *Catalysis Communications*, 2008, 10, pp. 178-182. DOI: <https://doi.org/10.1016/j.catcom.2008.08.027>

**Patents:**

7. Grant, P. Device for Elementary Analyses. USA Patent, 1989, No. 123456.

**Theses:**

8. Cato, S.J. Thermodynamic study of polymer solutions. Ph.D. Thesis, University of Florida, Florida, USA, 1987.

**Legal regulations and laws, organizations:**

9. EC Directive, Directive 2000/76/EC of the European Parliament and of the Council of 4 December 2000, on the incineration of waste, Annex V, Official Journal of the European Communities, L 332/91, 28.12.2000, Brussels.

**Web references:**

The full URL should be given in text as a citation, if no other data are known. It should be accompanied by a sentence indicating the explanation of the content. When you are indicating the URL you should remove the Hiperlink, this can be achieved by selecting the URL then click the right button of the mouse and chose from the menu *Remove Hyperlink*.

10. Spectral Database for Organic Compounds, SDBS. [http://sdb.sdb.aist.go.jp/sdb/cgi-bin/cre\\_index.cgi](http://sdb.sdb.aist.go.jp/sdb/cgi-bin/cre_index.cgi).

**Graphical Abstract**

Authors must supply a graphical abstract at the time the manuscript is first submitted.

Graphical abstract will include *Title*, *Authors* and *Abstract body*.

The abstract body will summarize the contents of the paper in a concise form and it **should not exceed 50 words**. Carefully drawn chemical structures or figures are desired to be included; these will serve to illustrate the theme of the paper. Authors must supply the graphical abstract in a separate document. The graphics which are a part of the graphical abstract should be sent separately in its original format.

An MS Word template for the Graphical Abstract can be found on the web page of Chemistry Journal of Moldova ([www.cjm.asm.md](http://www.cjm.asm.md)). Use of this template is mandatory.

**Copyright guidelines**

Upon acceptance of an article the copyright transfer will be automatic. This transfer will ensure the widest possible dissemination of information. If excerpts from other copyrighted works are included, the Author(s) must obtain written permission from the copyright owners and credit the source(s) in the article.

**Submission of manuscripts**

Please ensure that your submission contains the following items in separate Microsoft Word files:

1. Cover letter;
2. The manuscript with all schemes, figures, tables integrated in the text;
3. Graphical abstract.

These should be sent in an e-mail to:

Journal Editor-in-Chief, Academician Gheorghe DUCA  
e-mail: [chemjm.submission@gmail.com](mailto:chemjm.submission@gmail.com) / [chemjm@gmail.com](mailto:chemjm@gmail.com)

**Cover letter**

Please prepare a cover letter to the Editor-in-Chief containing the following information:

1. Justification why the manuscript should be published in "Chemistry Journal of Moldova. General, Industrial and Ecological Chemistry";
2. Declaration that the manuscript has not been published previously, in English or in any other language;
3. Declaration that the manuscript is not under consideration for publication in any other scientific journals;
4. The research field of their manuscript as well as the nature of contribution (Short Communication, Research Paper or Review Article);
5. The cover letter should be signed by the corresponding author, indicating under his name the scientific title and degree, followed by his affiliation.

Authors will be notified by email if their contribution is received and accepted.

Proofs will be dispatched *via* e-mail and should be returned to the publisher with corrections as quickly as possible, normally within 48 hours of receipt.