

## Instructions for authors

Please follow these instructions carefully to ensure that the review and publication of your paper are as swift and efficient as possible. These notes may be copied freely.

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

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

*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 – 2 pages.

*Full 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 – 6 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. All papers 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. It is the responsibility of the author to provide correct chemical 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/>

*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. 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, preferably in the CIF format. Hard copy data should be sent to CCDC, 12 Union Road, Cambridge CB2 1EZ, UK. A checklist of data items for deposition can be obtained from the CCDC Home Page on the World Wide Web (<http://www.ccdc.cam.ac.uk/>) or by e-mail to: [fileserv@ccdc.cam.ac.uk](mailto:fileserv@ccdc.cam.ac.uk), with the one-line message, send me checklist. The data will be acknowledged, within three working days, with one CCDC deposition number per structure deposited. These numbers should be included with the following standard text in the manuscript: Crystallographic data (excluding structure factors) for the structures in this paper have been deposited with the Cambridge Crystallographic Data Centre as supplementary publication numbers CCDC ... . Copies of the data can be obtained, free of charge, on application to CCDC, 12 Union Road, Cambridge CB2 1EZ, UK [fax: 144-(0)1223-336033 or e-mail: [deposit@ccdc.cam.ac.uk](mailto:deposit@ccdc.cam.ac.uk)]. 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  $[\alpha]_D$  values for enantiopure compounds. In addition, microanalyses should be included whenever possible (normally  $\pm 0.4\%$ ). Under appropriate circumstances, and at the Editor's discretion, high resolution mass data (normally to  $\pm 5$  ppm) 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. An example of manuscript formatting is provided after the descriptive part of the document.

*General requirements:* Manuscripts will be accepted only in electronic form in A4 format, orientation *Portrait*, one column layout, single-spaced, margins 2.5 cm on all sides (see the sample formatting page). Pages must be numbered. The corresponding author's full mailing address, plus phone and fax numbers and e-mail address should be included. 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 Section* (or methodical part), *Results and Discussion, Conclusion*, followed by *Acknowledgments and References*.

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

*Graphical Abstracts:* Authors must supply a graphical abstract at the time the paper is first submitted. It will include the article title and authors with the same formatting as in the article. The abstract body should summarize the contents of the paper in a concise, pictorial form designed to capture the attention of a wide readership and for compilation of databases. Carefully drawn chemical structures are desired that serve to illustrate the theme of the paper. Authors may also provide appropriate text, not exceeding 50 words. The whole graphical abstract should be kept within an area of 5cm by 17cm. Authors must supply the graphical abstract on a separate page integrated in the article file. The graphics which is a part of the graphical abstract should be sent separately in its original format.

*Title:* The title should be brief, specific and rich in informative words; it should not contain any literature references or compound numbers. 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.

Indicate all the authors in order of their affiliation and provide affiliation address after the author's names. Affiliations should be as detailed as possible and must include the country name and must be written in size 9 pt Italic. The corresponding author should be indicated with an asterisk, and contact details (fax, e-mail) should be placed after nomination of the authors. There should be only one corresponding author.

*Abstract:* Authors must include a short abstract of approximately four to six lines that states briefly the purpose of the

research, the principal results and major conclusions. References and compound numbers should not be mentioned in the abstract unless full details are given. The abstract body is 9 pt in size with the heading in bold.

**Keywords:** Authors are expected to provide a maximum of 5 keywords (10 pt, Normal) that will facilitate database searching. General, plural terms and multiple concepts (avoid, for example, “and”, “of”) should be avoided.

**Text:** Text should be subdivided in the simplest possible way consistent with clarity. Headings should reflect the relative importance of the sections. 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).

All measurements and data should be given in SI units.

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.

The experimental information should be as concise as possible, while containing all the information necessary to guarantee reproducibility. The text body is 10 pt in size with the heading in bold.

**Abbreviations:** must be defined at the first mention in the text and use them consistently thereafter.

**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. The reference list should contain only literature references; other information (e.g. experimental details) should be placed within the body of the text.

**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. If abbreviated names of the journals are used then authors are expected to consult American Chemical Society guidelines (The ACS Style Guide; Dodd, J. S.; Solla, L.; Berard, P.M. Ed.: American Chemical Society: Washington, DC, 2006) or the policy of the cited journal. All references must be edited in the same style. References should be numbered in the text in the order they are cited [1]. Multiple consecutive references may be abbreviated as [2-5].

**Each reference must contain only one literature citation.** Do not cite references in the abstract. 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.; Gadzhdiyeva, 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.

**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)

*Footnotes:* Footnotes should appear at the bottom of the appropriate page and be indicated by the following symbols:

\*, †, ‡, §, ¶, k.

*Tables:* Table must fit in a size of a page A4, orientation: *Portrait*. All tables should be cited in the text, and numbered in order of appearance with Arabic numerals. All table columns should have a brief explanatory heading and where appropriate, units of measurement. Vertical lines should not be used. Footnotes to tables should be typed below the table, each on a separate line, and should be referred to by superscript letters.

*Artwork:* Only black and white artwork will be accepted. Figures, schemes and equations must be cited in the text and numbered in order of appearance with Arabic numerals; other graphics should be placed at a particular position in the text but not specifically referenced. All graphics (including chemical structures) must be supplied in digital format integrated into the paper. If graphics are created using ChemDraw the preferred settings is RSC-1997.cds set (File/Apply settings/RSC-1997.cds): 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. Computer-generated illustrations, halftones and line/tones should also be provided where possible.

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

The following points should be taken into consideration when preparing electronic graphic files:

*Preferred graphics programs:* ChemDraw, CorelDraw 6 and 7, Photoshop. *Restricted use:* ChemWindow, ISIS-Draw. *Unusable:* \*.doc files, Excel graphics, C-Design, Origin, ClarisDraw, ChemIntosh, MacDraw Pro. *Acceptable formats of all graphics programs:* TIFF, WMF, BMP, CDX, CDR.

Files of scanned line graphics can be accepted at a minimum resolution of 1000 dpi, for scanned halftones, 300 dpi, and scanned line/tones.

*Equations and formulae:* To typeset your formulae or equations use Equation Editor or MathType. Quote them on the right side, between brackets.

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.  $_{app}i$ ).

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 punctuation (do not use commas).

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

Please follow the IUPAC nomenclature for your chemical compound.

- 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/>

### 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. Authors will be provided preprinted forms for use by Authors in these cases.

### Submission of manuscripts

Please send your contribution as an e-mail attachment to:

Journal Editor, Academician Gheorghe DUCA  
e-mail: chemjm@asm.md / chemjm@gmail.com

using Microsoft Word (Office 97 or higher for PCs) word processing soft.

Please prepare a single file (allowed formats: \*.doc or \*.rtf) containing on a separate page a short accompanying letter to the Editor, justifying why your article should appear in "Chemistry Journal of Moldova. General, Industrial and Ecological Chemistry", followed by the article body with all schemes, figures, tables integrated in the text (though not crystallographic CIF files). On the last page of this file please provide the Graphical Abstract. Submission of figures and artwork in separate files is mandatory in their native formats.

**Authors should indicate the research field of their paper (see below) as well as the nature of contribution (Short Communication, Full Paper or Review Article) in their accompanying letters, along with their mailing address, daytime phone number and fax if available. Names and addresses of three potential referees are welcomed.** Authors will be notified by email if their contribution is received and accepted.

*Proofs:* 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.

#### **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                |

# “CHEMISTRY JOURNAL OF MOLDOVA. GENERAL, INDUSTRIAL AND ECOLOGICAL CHEMISTRY” (14 pt Bold, CAPITAL LETTERS)

First Author<sup>a</sup>, Second Author<sup>a\*</sup>, Third Author<sup>b</sup> (12 pt Normal) (no titles please)

<sup>a</sup>*First Organization, First Address (9 pt, Italic)*

<sup>b</sup>*Second Organization; Second Address (9 pt, Italic)*

*\*e-mail, phone and fax numbers of the corresponding author*

**Abstract.** This document is an example of a contribution to be submitted to “Chemistry Journal of Moldova. General Industrial and Ecological Chemistry”. This is the abstract in font size: 9 pt with the heading in bold. Please use the Times New Roman font. The title is in size 14 pt Bold (all capital letters), the names of the authors are in size 12 pt Normal and the name of the organization and its address are in size 9 pt Italic. The rest of the text is in single-space, typed in a one column layout and font size 10 pt.

**Keywords:** Insert a maximum of 5 keywords (size 10 pt, Normal) that will facilitate database searching. Avoid general, plural terms and multiple concepts (avoid, for example, “and”, “of”).

## Introduction

Contributions should comprise an even number of pages. There are no limits to the contribution size. Authors are also kindly requested to adhere to the formatting instructions for font size and layout.

## How to prepare your paper

**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 (cjm.asm.md). Use of this template is mandatory.**

A theoretical or physico-chemical paper normally contains the *Title, Authors, Affiliations, Abstract, Keywords*, a brief *Introduction* and formulation of the problem, an *Experimental* section (or methodical part), *Results* and *Discussion, Conclusion*, followed by *Acknowledgments* and *References*.

In MS Word, under the *File* menu, choose *Page setup* and set the *Top, Bottom, Left & Right Margins* as 2.5 cm, the *Gutter* as 0 cm, and the *Header* and *Footer* to 1.2 cm and choose *Apply to: Whole Document*. Then select the “*Paper Size*” tab and set the *Paper Size: A4* and *Orientation: Portrait*.

Ensure that each new paragraph is clearly indicated, using TAB at 1.25 pt.

## Title

The title is in size 14 pt Bold, all capital letters. Title should be concise and informative. Avoid the abbreviations where is possible.

## Author list

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.

## Text

Use the 10-point Times New Roman font. Use the automatic page numbering function to number the pages.

## Abbreviations

If you are using abbreviations, please define them at the first mention in the text and use them consistently thereafter.

## Figures and Tables

Figure and table titles must be typed in Bold and should appear below the figures and above the tables.

### Tables

Before editing tables please consider the following requirements:

- Tables should be centered and they should occupy the full width of the page.
- Table must fit in a size of a page A4, *Portrait*.
- If your table transfers partially to the next page you should mention on the next page that this is a continuation of the table and you must indicate the headings.
  - All table columns should have a brief explanatory heading typed in bold and where appropriate, units of measurement.
  - Vertical lines should not 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*”.

### Figures

Only black and white artwork will be accepted. Individual figures should normally be centered. It is also more convenient for referees of your article if 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". We recommend you to place figures and their captions in a table with no margins.

Each figure should have a concise caption describing accurately what figure depicts. Figure captions begin with the term **Figure** in bold type, followed by figure number and punctuation, also in bold type.

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

If you are using previously published material please include the source in the form of reference citation at the end of the figure caption. Use the punctuation at the end of the caption.

### Equations and formulae

To typeset your formulae or equations use Equation Editor or MathType. Quote them on the right side, between brackets.

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.  ${}_{\text{app}}i$ ).

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.

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– 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/>

### Acknowledgments (optional)

You can acknowledge certain collaborators, funds or programs who contributed in a way to the research described in the paper.

### References

**References should be written in English only. If you are using references written in other languages please indicate them with an appropriate title in English. The original language should be indicated in round brackets.**

Complete bibliographic information for all cited references is required. If you use abbreviated names of the journals then you should consult American Chemical Society guidelines (The ACS Style Guide; Dodd, J. S.; Solla, L.; Berard, P.M. Ed.: American Chemical Society: Washington, DC, 2006) or the policy of the cited journal. All references must be edited in the same style.

### Graphical Abstract

Authors must supply a graphical abstract at the time the paper is first submitted. It will include the article title and authors with the same formatting as in the article. The abstract body should summarize the contents of the paper in a concise, pictorial form designed to capture the attention of a wide readership and for compilation of databases. Carefully drawn chemical structures are desired that serve to illustrate the theme of the paper. Authors may also provide appropriate text, not exceeding 50 words. The title is in size 10 pt Bold (all capital letters), the names of the authors are in size 9 pt. The abstract body must be written in font size 9 pt. The whole graphical abstract should be kept within an area of 5cm by 17cm. Authors must supply the graphical abstract on a separate page integrated in the article file. The graphics which is a part of the graphical abstract should be sent separately in its original format.

**MS Word template of the graphical abstract can be found on the web page of Chemistry Journal of Moldova ([cjm.asm.md](http://cjm.asm.md)).**