

INSTRUCTIONS TO AUTHORS

Macedonian Journal of Chemistry and Chemical Engineering (Maced. J. Chem. Chem. Eng.) is an official publication of the Society of Chemists and Technologists of Macedonia. It is published twice a year. The journal publishes **original scientific papers, short communications, reviews, professional and educational papers** from all fields of chemistry, chemical engineering, food technology, biotechnology and material sciences, metallurgy and related fields.

This journal also publishes, continuously or occasionally, the bibliographies of the members of the Society, book reviews, reports on meetings, information on future meetings, important events and dates, and various headings which contribute to the development of the corresponding scientific field.

Original scientific papers report unpublished results of completed original scientific research. Experimental data should be presented in a way that enables reproduction and verification of analyses and deductions on which the conclusions are based. Manuscripts should normally not exceed 6000 words.

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Introduction. The most important previous results related to the problem in hand should be reviewed avoiding a detailed literature survey, and the aim and importance of the research should be clearly stated.

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Manuscripts that are related to theoretical studies, instead of experimental section should contain a sub-heading **theoretical background** where the necessary details for verifying the results obtained should be stated.

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Tables. They should be given with a suitable caption and should be numbered consecutively with Arabic numerals. Footnotes to tables should be typed below the table and should be referred to by superscript lowercase letter. Each table should be typed on a separate sheet. The correct position of the tables should be marked on the manuscript.

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SI units (SI, Système Internationale d'Unités) should be used. Where there are special reasons for making an exception to this rule, it is recommended to define the units used in terms of SI units. In tabulating the numerical values of physical quantities, or labeling the axes of graphs, the quotient of a physical

quantity and a unit should be used in such a form that the values to be tabulated are pure numbers.

Examples:

- T/K or Temperature/K
- $10^3 (T/K)^{-1}$
- $\ln(p/kPa)$
- $(I_m/\text{mmol kg}^{-1})^{1/2}$

Percents and *per mills*, although not being units in the same sense as the units of dimensioned quantities, can be treated as such. Unit symbols should never be modified (for instance: w/w %, vol.%, mol.%) but the quantity measured has to be named, e.g. mass fraction, $w = 95\%$; amount (mole) fraction, $x = 20\%$.

Latin words should be italicized, as for example: *et al.*, *i.e.*, *in vivo*, *ibid.*, *vs.*

Double subscripts or **superscripts** should be avoided whenever possible.

The data for new compounds should be quoted as follows: yield, melting (boiling) point, UV absorption, NMR spectra, mass spectrum and elemental analysis, e.g. 7 g (65 %); m.p 77–78 °C; UV(EtOH) $\lambda_{\text{max}}/\text{nm}$: 228 and 262 ($\log \epsilon/\text{dm}^3 \text{mol}^{-1} \text{cm}^{-1}$: 4.23 and 3.92; ^1H NMR (CdCl_2) δ/ppm : 2.30 (s, 3H, Me), 4.51 (d, 1H, 1,2 $J_{1,2} = 3.2$ Hz, H-3); ^{13}C NMR (CdCl_2) δ/ppm : 160 (C-5), 120 (C-2); MS m/z : 264 (M^+ , 100 %) and 246 ($M^+ - 18$).

Analysis. Calcd. mass fractions of elements, $w/\%$, for $\text{C}_{18}\text{H}_{13}\text{N}_3\text{O}_5\text{S}$ ($M_r = 383.38$) are: C 56.39, H 3.42, N 10.96, O 20.87, S 8.36; found: C 56.31, H 3.62, N 10.76, O 20.60, S 8.19. When describing more than 4 or 5 compounds, the data are best presented as a table.

IUPAC recommendations should be followed. Detailed instructions are given in relevant IUPAC publications:

- *Nomenclature of Inorganic Chemistry*, Blackwell Scientific Publications, Oxford, 1992.
- *A Guide to IUPAC Nomenclature of Organic Compounds*, Blackwell, Oxford 1993.
- *Quantities, Units and Symbols in Physical Chemistry* - 3rd edition, for IUPAC, RSC Publishing, Cambridge 2007.

Note: some of the books from the IUPAC Nomenclature Books Series are available for free download as pdf documents from the IUPAC web site:

<http://old.iupac.org/publications/books/seriestitles/nomenclature.html>

<http://old.iupac.org/publications/books/rbook/>

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Formulas and equations. Chemical equations should be balanced and numbered consecutively along with mathematical equations or other mathematical expressions. All of them should be marked with Arabic numerals in parenthesis in the right hand margin. The use of equation editor (Word) for typeset-

ting the equations is recommended. Strokes (/) should not be used instead of parentheses.

Structural formulas and other graphical representations should conform to the following IUPAC publication:

- Graphical representation standards for chemical structure diagrams (IUPAC Recommendations 2008), *Pure Appl. Chem.* **80**, 277–410 (2008).

Crystal structure determination(s). The authors should deposit the crystallographic data with the Cambridge Crystallographic Data Centre (organic and metal-organic structures) or with the Fachinformationszentrum Karlsruhe (inorganic structures). The addresses are:

- Cambridge Crystallographic Data Centre, 12 Union Road, Cambridge CB2 1EZ, UK
e-mail: deposit@ccdc.cam.ac.uk

Guidance for deposition can be found at:

<http://www.ccdc.cam.ac.uk/conts/depositing.html>

- Fachinformationszentrum Karlsruhe (FIZ), D-76344 Eggenstein-Leopoldshafen, Germany
e-mail: crysdata@fiz-karlsruhe.de
<http://crystal.fiz-karlsruhe.de>

Deposition number should be submitted together with the manuscript and an appropriate note should be put in the paper.

Acknowledgement. Financial support, advice or other kinds of assistance can be included in this section.

References. Literature references should be numbered and listed in order of citation in the text. They should be selective rather than extensive with the exemption to review articles. Avoid references to works that have not been peer-reviewed. Citation of a reference as “in press” implies that it has been accepted for publication. Citation of reference as “submitted” is not allowed. Abbreviations of the titles of the periodicals should be in accordance with *Journal Title Abbreviations*.

The surname of one or two authors may be given in the text, whereas in case of more than two authors they should be quoted as, for example, *Julg et al.* [1]. References should be cited as follows:

Journals:

[1] P. Hobza, Z. Havlas, The fluoroform-ethyleneoxide dimer exhibits an antihydrogen bond, *Chem. Phys. Lett.* **303**, 447–452 (1999).

Books:

[1] J.A. Roels, *Energetics and Kinetics in Biotechnology*, Elsevier Biomedical Press, Amsterdam, New York, Oxford, 1983.
[2] H. Chum, M. Baizer, *The Electrochemistry of Biomass and Derived Materials*, ACS Mono-

graph 183, American Chemical Society, Washington, DC, 1985, pp. 134–157.

[3] J.W. Finley, G.A. Leveille, Macronutrient substitutes, in: *Present Knowledge in Nutrition*, E.K. Ziegler, L.J. Filer Jr. (Eds), ILSI Press, Washington DC, 1996, pp. 581–595.

[4] С. Хаџи Јорданов, *Корозија и заштита на металите*, Нова Македонија, Скопје, 1993.

Scientific meetings:

[1] M. Geraldес, L. Hes, M. Araujo, A. Marcincin, The Application of new performance PP fibers in functional knit structure, *Proceedings of International Textile Clothing and Design Conference*, Dubrovnik, Croatia, 2002, pp. 59–64.

For the web references, as a minimum the full URL should be given. Any further information, if available (author names, dates, reference to a source publication, etc.) should also be given.

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