

FOR AUTHORS

GENERAL INFORMATION

The *Ukrainian Chemistry Journal* operates under a diamond open access model, providing free access for both authors (including doctoral students) and readers, with no article processing charges (APC) and free access to publications for readers. The editorial board considers scientific articles that are original and have not been previously published, are not under consideration by other journals, correspond to the scope of the journal, and are prepared in accordance with the editorial requirements. Authors bear full responsibility for the accuracy of results, the content of the article, and the correctness of references.

The *Ukrainian Chemistry Journal* publishes the following types of materials:

- original research articles (peer-reviewed)
- review articles (peer-reviewed)
- short communications (peer-reviewed)
- book reviews (*at the editorial board's discretion*)
- conference proceedings (*at the editorial board's discretion*)
- chronicles (*at the editorial board's discretion*)

Each author may publish only one article per issue, including articles written in co-authorship. Articles may be submitted in Ukrainian or English.

All manuscripts received by the editorial office are checked for plagiarism using appropriate software. If borrowings without references to the corresponding sources are identified, the manuscript is withdrawn from consideration, and the author is notified accordingly. Authors are required to provide their ORCID identifier (if not yet registered, it must be obtained prior to submission).

Articles in the journal are published in both Ukrainian and English (an article in Ukrainian accompanied by an English abstract of no less than 1,800 characters; or an article in English accompanied by a Ukrainian abstract of standard length).

Manuscripts are submitted to the editorial office exclusively through the journal's website using the provided template. To do so, authors must visit <https://ucj.org.ua>, register as an author by completing the required author information form, and upload the manuscript to the journal's website. This procedure is necessary to establish the submission date and assign a reference number to the manuscript. In the event of technical difficulties with the website, authors may submit their manuscript by e-mail to: ukrchemj@gmail.com.

All manuscripts received by the editorial office are subject to mandatory double-blind peer review. A detailed description of the review process, the timelines for each stage, authors' rights, and the principles governing editorial decisions are set out on the dedicated [Peer Review Process](#) page on the journal's official website. The overall time from manuscript submission to editorial decision is typically between 1 and 2 months. This approach ensures integrity and eliminates potential bias. Reviewers are selected from a list of specialists in the relevant areas of chemical science by the scientific editor and subsequently approved by the editor-in-chief. Reviewers are active researchers with an h-index of at least 4.

The purpose of the peer review procedure is to eliminate instances of poor research practice and to ensure that the interests of authors, readers, the editorial board, reviewers, and the institution where the research was conducted are balanced and respected. Should authors disagree with the reviewers' conclusions, they have the right to submit a reasoned response to the editorial office. The final decision on the possibility and appropriateness of publication is made

by the editor-in-chief (or, at their discretion, by a member or members of the editorial board), who may refer the manuscript for additional review by other reviewers.

Following the typesetting of an accepted manuscript, it is sent to the corresponding author by e-mail for final approval. The author must submit any corrections within two working days of the date the letter was sent by the editorial office of the *UCJ*. If no response is received within this period, the article is published without changes. No further corrections by the author will be possible thereafter.

The *Ukrainian Chemistry Journal* upholds the highest standards of publication ethics in accordance with the principles of the leading international organisations COPE (Committee on Publication Ethics), WAME, and DORA. Detailed provisions regarding the ethical obligations of authors, reviewers, and the editorial board, policies on plagiarism, data falsification, article retraction, the use of artificial intelligence tools, and the protection of personal data are set out on the [Journal Policies](#) page on the journal's official website. By submitting a manuscript, authors confirm that they have read these provisions and undertake to comply with them.

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MANUSCRIPT PREPARATION FOR SUBMISSION TO THE JOURNAL

Articles in the journal are published in both Ukrainian and English (an article in Ukrainian accompanied by an English abstract of no less than 1,800 characters; or an article in English accompanied by a Ukrainian abstract of standard length).

Article structure:

1. UDC (*upper left*)
2. Title of the article
3. Authors' initials and surnames (*as in passport*)
4. Institution, city, country
5. Abstract and keywords (*no more than 7*) in Ukrainian
6. Introduction
7. Experimental section and discussion of results
8. Conclusions
9. Acknowledgements (*optional*)
10. Author contributions statement
11. Conflict of interest statement
12. Funding statement
13. Abstract and keywords in English
14. List of references
15. Supplementary information (*optional*)

Manuscript length: The total length of the manuscript (including the main text, source data, abstract and keywords in Ukrainian, abstract and keywords in English, list of references, tables, figure captions, notes, and citations) must not exceed 30 printed pages; for short communications — 5 printed pages. These length requirements do not apply to review articles, which may extend to 15,000–20,000 words. The number of references in review manuscripts is also not limited.

Formatting: The text must be prepared in MS Word (.doc) format, using Times New Roman font, 12 pt, with 1.5 line spacing, on A4 paper. Margins: top, bottom, left, and right — 20 mm.

INTRODUCTION

The Introduction is a mandatory structural element of a research article and must provide the reader with a clear understanding of the scientific context, relevance, and objectives of the study. The content and structure of the Introduction should include:

1. **Justification of the topic's relevance.** The author should briefly outline the research area and explain why the chosen topic is important from a scientific or applied perspective. The Introduction should be sufficiently general to engage readers from related fields of chemistry.
2. **Review of the current state of the problem.** Relevant scientific literature demonstrating the level of development of the topic must be analysed. Current publications should be cited, primarily from the last 5–7 years, with preference given to works published in journals indexed in Scopus and Web of Science. The review need not be an exhaustive list of all known works — it is sufficient to highlight key achievements and unresolved issues.
3. **Identification of the knowledge gap (research problem).** The author must clearly indicate what remains unclear, controversial, or insufficiently studied in the field, and what motivated the present work.
4. **Statement of the research aim and objectives.** At the end of the Introduction, the aim of the work must be clearly stated, along with specific objectives or a research hypothesis if applicable. A brief indication of the approach or methodology used is also acceptable.

Formatting requirements: The Introduction should generally not exceed 15–20% of the total length of the article. References are cited in accordance with the journal's adopted citation style (numbered list in order of appearance in the text). Detailed descriptions of methods, results, or conclusions should not be included in the Introduction — these elements belong to the corresponding sections of the article. Abbreviations and acronyms used in the Introduction must be defined at first mention. The Introduction is not numbered as a separate subsection; the heading "Introduction" is formatted in bold and positioned either centred or flush left in accordance with the journal template.

EXPERIMENTAL AND RESULTS DISCUSSION

This section may be presented either as a single combined section or as two separate subsections, depending on the nature and scope of the study. If the experimental data and their interpretation are closely interrelated, combining them into one section is acceptable. Otherwise, it is recommended to separate them for greater clarity of presentation.

Experimental Section. The section must contain a sufficiently detailed description of all materials, reagents, equipment, and procedures used, so that another qualified researcher would be able to reproduce the described experiments.

The section should include:

1. **Reagents and materials.** The names of chemical substances must be provided in accordance with IUPAC nomenclature or commonly accepted names, along with their purity grade (reagent grade, analytical grade, chemically pure, etc.), manufacturer, and, where applicable, any additional purification or preparation carried out prior to use.
2. **Equipment and instruments.** The make, model, and manufacturer of all major analytical and process equipment (spectrometers, chromatographs, thermostats, etc.) must be stated, along with the key technical specifications relevant to the reproducibility of the results.
3. **Synthetic and/or analytical procedures.** New procedures must be described fully and in sequential order. Previously published procedures should be cited with a reference to the appropriate source; a brief description of any significant modifications is acceptable. For synthetic work, the following must be reported: product yield (as a percentage of theoretical), physical constants (melting point, boiling point, refractive index, etc.), and elemental analysis or spectral identification data.

4. **Experimental conditions.** Temperature, pressure, medium, reaction time, and any other significant parameters must be clearly stated. All physical quantities are given in SI units; the parallel use of non-SI units commonly accepted in chemistry (e.g., nm, cm⁻¹, eV) is permitted.
5. **Statistical data processing.** If results were obtained through replicate measurements, the number of parallel experiments, the data processing method, and the confidence interval or standard deviation must be specified.

Results Discussion

This subsection is the analytical core of the article. Its purpose is not merely to enumerate the data obtained, but to analyse and interpret their scientific significance.

The subsection should include:

1. **Sequential and logical presentation of results.** Data are presented in the text in an order consistent with the logic of the study, with references to tables, figures, and schemes. Numerical data already presented in tables or figures should not be duplicated in the text — commentary and interpretation are sufficient.
2. **Interpretation and explanation of results.** The author must explain the observed trends, relationships, or phenomena, drawing on theoretical reasoning, mechanistic considerations, or comparison with known data. The question "Why?" must be addressed, not merely "What?".
3. **Comparison with literature data.** The results obtained should be compared with those of previous studies. Any agreement, discrepancy, or advantage of the present data relative to known results must be clearly indicated.
4. **Discussion of limitations and possible sources of error.** If the results have certain limitations with respect to applicability, or if deviations from expected values are observed, the author must acknowledge and explain them, avoiding the omission of ambiguous data.
5. **Illustrative material.** All figures, schemes, and tables must be numbered with Arabic numerals, accompanied by informative captions, and must be referred to in the text. Figure captions are placed below the figures; table titles are placed above the tables. The quality of graphical materials must comply with the resolution requirements specified in the technical guidelines for manuscript preparation (see below).

CONCLUSIONS

The Conclusions section is a mandatory closing section of the article, summarizing the scientific value of the work performed.

The section should include:

1. **A concise summary of the key results.** The conclusions must reflect only what directly follows from the study and is supported by the data obtained. Statements that are not substantiated in the body of the article are not permitted.
2. **Correspondence with the research objectives.** Each conclusion must logically correlate with the objectives or aim formulated in the Introduction. This ensures the integrity and structural completeness of the article.
3. **Scientific novelty and practical significance.** It is advisable to clearly indicate what is new in comparison with known results, and what scientific or applied significance the obtained data hold for the relevant field of chemistry.
4. **Prospects for further research (if applicable).** A brief indication of possible directions for continuation of the work is acceptable; however, this element is not mandatory and should not dominate the section.

Formatting requirements: Conclusions are presented either as a numbered list or as concise paragraphs, depending on the nature of the work and the volume of results. The section should generally not exceed 10% of the total length of the article. Simple repetition of the abstract text

in the Conclusions is not permitted. No new data, literature references, or detailed discussion should be included in the Conclusions — all such content belongs to the preceding sections. The Conclusions section does not contain tables, figures, or formulae.

ACKNOWLEDGEMENTS

The Acknowledgements section is optional but recommended. It is placed after the main text and Conclusions, but before the list of references.

The section should include:

1. **Acknowledgement of individuals who contributed to the research but are not co-authors.** This may include colleagues who provided technical assistance, consultations, access to equipment or materials, translation or editing of the text, as well as individuals who assisted with data collection or processing. Inclusion of a person in the Acknowledgements section does not imply their responsibility for the content of the article.
2. **Acknowledgement of institutions and organizations.** If the research was carried out using the infrastructure of scientific institutions, shared-use equipment, or within the framework of international collaboration, this should be noted.
3. **Acknowledgement of permission to reproduce materials.** If previously published figures, schemes, tables, or other copyright-protected materials are reproduced or adapted in the article, this section should state that the relevant permission was obtained from the rights holder.

Formatting requirements: The section is presented as continuous prose without numbering or sub-items. It should generally comprise 2–5 sentences. Individuals who meet the criteria for authorship must not be included in the Acknowledgements — they must be listed as co-authors of the article. All persons mentioned in the Acknowledgements section must be informed of this and must give their consent.

AUTHOR CONTRIBUTIONS

In accordance with international requirements for scientific publications (in particular, the recommendations of the ICMJE and the CRediT — Contributor Roles Taxonomy), the editorial board requires authors to provide a clear declaration of the individual contribution of each co-author to the preparation of the manuscript.

The section should reflect the role of each author according to the following categories:

- **Conceptualization** — formulation of the research idea and objectives.
- **Methodology** — development or selection of research methods.
- **Investigation (Experiment)** — direct conduct of experiments and data collection.
- **Data curation** — statistical processing, systematization, and verification of results.
- **Writing – original draft** — preparation of the first version of the manuscript.
- **Writing – review & editing** — critical analysis, commentary, and improvement of the text.
- **Visualization** — preparation of figures, schemes, graphs, and tables.
- **Supervision** — overall scientific and/or administrative management of the project.
- **Funding acquisition** — sourcing and securing financial support for the research.

Example of formatting:

O.M. Ivanenko: conceptualization, methodology, writing – original draft. *V.S. Petrenko*: investigation, data curation, visualization. *L.I. Kovalenko*: writing – review & editing, supervision. All authors have read the results of the study and approved the final version of the manuscript.

Or:

The authors contributed equally to the development of the concept and study design, data collection, systematization, analysis, and interpretation of the results obtained. All authors participated in the preparation, editing, and revision of the manuscript. All authors have read the results of the study and approved the final version of the manuscript.

Formatting requirements: This section is mandatory for articles with two or more authors. For single-author articles, the following statement is acceptable: *"The author is solely responsible for all aspects of the preparation of this work."* Each author must be listed under at least one contribution category. The author contributions declaration does not replace the information on the corresponding author.

In accordance with the recommendations of the **International Committee of Medical Journal Editors (ICMJE)**, authorship of a scientific work is attributed to an individual who simultaneously meets all four of the following criteria: (1) made a substantial contribution to the conception or design of the work, or to the acquisition, analysis, or interpretation of data; (2) participated in drafting the manuscript or critically revising it for important intellectual content; (3) approved the final version of the manuscript as submitted for publication; (4) accepts accountability for all aspects of the work and is prepared to ensure that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved. Individuals who do not meet all four criteria cannot be listed as authors — their contributions should be acknowledged in the Acknowledgements section. The editorial board reserves the right to request clarification regarding authorship where doubts arise.

CONFLICT OF INTEREST

A conflict of interest declaration is mandatory for all articles submitted to the *Ukrainian Chemistry Journal* and complies with the requirements of the Committee on Publication Ethics (COPE).

A conflict of interest is any situation that may affect, or be perceived as affecting, the objectivity, independence, or integrity of the research. Such situations include: financial interests (shares, fees, consultancy payments, patents); employment or contractual relationships with organizations having an interest in the research outcomes; personal or academic relationships (academic rivalry, close family or personal ties with reviewers or editors); membership of boards of directors or advisory bodies of commercial entities; any other circumstance that could potentially influence the impartial conduct or presentation of the research.

Examples of wording:

Where a conflict exists: "Author [Full Name] serves as a consultant to [company name], which may have an interest in the results of this study. The remaining authors declare no conflict of interest."

Where no conflict exists: "The authors declare no conflict of interest."

Formatting requirements: This section is mandatory and may not be omitted. Where no conflict of interest exists, this must be explicitly declared. The declaration is endorsed by all authors of the manuscript. The editorial board reserves the right to reject a manuscript if an undeclared conflict of interest is identified after submission.

FUNDING

The Funding section is a mandatory element of the article and ensures transparency regarding the sources of support for the research. It is placed after the Conflict of Interest section.

The section should include:

1. **Information on all sources of funding** for the research underlying the article, including: state grants and targeted programs (with the grant or project number); funding from the National Academy of Sciences of Ukraine, the Ministry of Education and Science of

Ukraine, or other governmental bodies; international grants and programs (Horizon Europe, NATO, NATO SPS, Marie Skłodowska-Curie, etc.); support from universities, research foundations, or private organizations.

2. **A declaration of no funding** — if the research was conducted without external financial support.

Examples of wording:

Where funding was received: "This work was supported by the National Research Foundation of Ukraine (grant No. 2022.01/0XXX) and carried out within the framework of the targeted program of the NAS of Ukraine '[program title]'."

Or:

"This work was carried out with the support of the NAS of Ukraine within the research project commissioned by the Chemistry Division of the NAS of Ukraine '[project title]', registration No. U)."

Where no funding was received: "This research received no specific funding from public, commercial, or not-for-profit sources."

Formatting requirements: This section is mandatory regardless of whether or not funding was received. The funding statement is a standalone section and may not be incorporated solely into the Acknowledgements. If the funding is associated with a potential conflict of interest, this must be additionally reflected in the corresponding section. The names of programs and foundations are given in full at first mention; the use of commonly accepted abbreviations in parentheses is permitted.

TECHNICAL REQUIREMENTS FOR THE MANUSCRIPT

Typesetting of formulae and symbolic notation. Complex formulae must be typeset exclusively using the MathType equation editor, with only Latin and Greek characters. The use of Cyrillic characters, including in subscripts and superscripts, is not permitted. Each formula must be typeset as a single object (full – 11 pt; subscript – 8 pt; sub-subscript/superscript – 6 pt; symbol – 10 pt).

The following are typeset in **roman (upright)** style: Greek and Ukrainian letters; mathematical symbols (sin, lg); chemical element symbols (Cl, I, CHCl₃); numerals (Roman and Arabic); vectors; subscripts and superscripts that are abbreviations of words.

The following are typeset in *italic* style: Latin letters representing variables and symbols of physical quantities (including those in subscripts and superscripts). The equation editor must not be used for variables in running text, except where necessary (e.g., a variable with both a superscript and a subscript simultaneously).

The following are typeset in **bold**: vectors (no arrows above are used). Physical quantities must be expressed in SI units, except for generally accepted non-SI units commonly used in chemistry.

All structural formulae of organic or organometallic compounds must be drawn using ChemDraw, or submitted as figures in TIF or JPG format.

All figures and photographs must be clear and high-contrast, and must be submitted in electronic form in TIF or JPG format at a resolution of **300 dpi or higher**. The numbering of all illustrative materials must be sequential and continuous, without gaps or repetitions.

Figure captions and table titles. When a manuscript is submitted in Ukrainian, **all figure captions and table titles must be duplicated in English directly** within the manuscript text. The English translation is placed immediately after the corresponding Ukrainian caption or title.

This requirement applies to all illustrative materials throughout the manuscript without exception.

Example of figure caption formatting:

Fig. 1. ^1H NMR spectra of $\text{PcHf}(\text{C}_9\text{H}_{19}\text{COO})\text{L}$ (*top*) and $\text{PcHf}(\text{dbm})_2$ (*bottom*) in deuteriochloroform.

Example of table title formatting:

Таблиця 1.

Порівняння результатів обчислень різними методами оптимізації.

Table 1.

Comparison of calculation results obtained by different optimization methods.

Information on chemical compound structures.

For articles containing results of X-ray structure analysis (XRD/XRC), authors must comply with the following requirements for the submission and presentation of crystallographic data.

Deposition of data with the CCDC. Atomic coordinates and full crystallographic data for all new structures determined by X-ray analysis must be deposited with the Cambridge Crystallographic Data Centre (CCDC) at <https://www.ccdc.cam.ac.uk/structures> prior to submission of the manuscript. Upon deposition, authors receive a CCDC deposition number, which must be cited in the article text in the following format:

"Crystallographic data for compound X have been deposited with the Cambridge Crystallographic Data Centre (CCDC No. XXXXXXX). These data can be obtained free of charge from <https://www.ccdc.cam.ac.uk/structures>."

Required crystallographic parameters. The following data must be provided in the article text or in the Supplementary Information:

- ✓ empirical formula and molecular weight
- ✓ measurement temperature
- ✓ radiation wavelength (Å)
- ✓ crystal system and space group
- ✓ unit cell parameters (a, b, c in Å; α , β , γ in degrees; V in Å³)
- ✓ number of formula units per cell (Z)
- ✓ calculated density (g/cm³)
- ✓ absorption coefficient μ (mm⁻¹)
- ✓ range of data collection angles (θ)
- ✓ number of measured and independent reflections; R_{int}
- ✓ completeness of data collection (%)
- ✓ R₁ and wR₂ disagreement factors (for $I > 2\sigma(I)$ and for all data)
- ✓ goodness-of-fit (GoF, S)
- ✓ maximum and minimum residual electron density (e/Å³)

CIF file format. A file in CIF (Crystallographic Information File) format must be submitted as Supplementary Information. Prior to submission, the CIF file must be validated using the **checkCIF** utility (<https://checkcif.iucr.org>). Level A and B alerts in the checkCIF report must be explained by the authors. Reviewers are entitled to request the raw diffraction data.

Graphical representation of structures. Figures of molecular or crystal structures must be prepared using Mercury, ORTEP, DIAMOND, or equivalent software, with the thermal ellipsoid probability level specified (typically 30% or 50%).

Information on the presentation of spectral data.

NMR spectroscopy ($^1\text{H}/^{13}\text{C}$ NMR) for organic or organometallic compounds. For all new compounds, spectral data confirming their structure and purity are mandatory. Spectral data are reported directly in the text of the experimental section. For new compounds, complete spectra (as images) are submitted as Supplementary Information at the reviewer's request, or as figures in the main manuscript text where appropriate for the discussion of significant spectral changes.

NMR spectroscopy (^1H , ^{13}C NMR).

Required information: nucleus type: ^1H NMR or ^{13}C NMR; instrument operating frequency (MHz); solvent (e.g., CDCl_3 , DMSO-d_6); internal standard (TMS or residual solvent signal, with its value specified).

^1H NMR reporting format: ^1H NMR (400 MHz, CDCl_3): δ (ppm) = 8.45 (d, J = 8.2 Hz, 2H, H-Ar), 7.32 (t, J = 7.5 Hz, 1H, H-Ar), 3.85 (s, 3H, OCH_3), 2.31 (m, 2H, CH_2).

The following must be reported: chemical shift δ in ppm (to two decimal places); multiplicity: s (singlet), d (doublet), t (triplet), q (quartet), m (multiplet), dd (doublet of doublets), etc.; spin–spin coupling constant J in Hz for all split signals; number of protons (integral intensity); assignment of protons to structural fragments.

^{13}C NMR reporting format: ^{13}C NMR (100 MHz, CDCl_3): δ (ppm) = 168.4 (C=O), 143.2 (C4), 128.6 (C5-Ar), 55.3 (OCH_3), 21.8 (CH_3).

The following must be reported: chemical shift δ in ppm (to one decimal place); assignment of the signal to the carbon atom (according to IUPAC numbering).

Additional requirements: Both ^1H and ^{13}C NMR data are mandatory for new compounds. Two-dimensional spectra (COSY, HSQC, HMBC, NOESY) are provided where necessary for unambiguous confirmation of the structure of complex molecules and are submitted as Supplementary Information. Spin–spin coupling constants must be numerically consistent for mutually coupled protons.

IR spectroscopy (IR).

Required information: sample preparation method: KBr (pellet), Nujol (mull), ATR, film, etc.; spectral range (cm^{-1}).

Reporting format: IR spectrum (KBr): ν (cm^{-1}) = 3420 (br., ν O–H), 3050 (ν C–H arom.), 1720 (ν C=O), 1610 (ν C=N), 1480, 1380, 820.

The following must be reported: wavenumbers of characteristic absorption bands; band intensities: s (strong), m (medium), w (weak), br (broad) — where applicable; assignment of bands to functional groups for diagnostically significant frequencies (ν C=O, ν N–H, ν O–H, ν C=N, etc.); only characteristic bands are reported, not a complete listing of all peaks.

Electronic absorption spectroscopy (UV-Vis/EAS).

Required information: solvent; solution concentration or molar absorption coefficient ϵ .

Reporting format: UV-Vis spectrum (CHCl_3): λ_{max} (nm) ($\lg \epsilon$) = 345 (4.52), 612 (5.13), 668 (5.41).

or for qualitative description: UV-Vis spectrum (DMF, $c = 1 \times 10^{-5}$ mol/L): λ_{max} (nm) = 280 (shoulder), 430, 675 (most intense Q-band).

The following must be reported: wavelengths of all significant absorption maxima (nm); molar absorption coefficients $\lg \epsilon$ or ϵ ($\text{L} \cdot \text{mol}^{-1} \cdot \text{cm}^{-1}$) — mandatory for new compounds; nature of the bands (shoulder, Q-band, B-band, etc.) — for porphyrins, phthalocyanines, and related compounds.

Mass spectrometry (MS).

Reporting format: MS (MALDI-TOF): $m/z = 1034.38$ [M] $^+$ (calcd. for $\text{C}_{52}\text{H}_{54}\text{HfN}_8\text{O}_4$: 1034.37). MS (ESI $^+$): $m/z = 517.70$ [$\text{M}+2\text{H}$] $^{2+}$, 1034.38 [$\text{M}+\text{H}$] $^+$.

High-resolution mass spectra (HRMS) or elemental analysis data are required for new compounds. The calculated and found m/z values must agree to within ± 0.005 for $m/z < 1000$.

Elemental analysis is reported in the following format: Found (%): C 60.31; H 5.42; N 10.85. Calculated for $C_{24}H_{26}N_4O_3$ (%): C 60.24; H 5.48; N 11.71. Acceptable deviation: $\pm 0.3\%$ for C, H, N.

REFERENCES

References are formatted in accordance with the requirements of the National Standard of Ukraine "Information and Documentation. Bibliographic References. General Provisions and Rules of Compilation" DSTU 8302:2015. The reference list should contain works published within the last 5 years; earlier publications may be included only in exceptional cases. All cited sources must be accompanied by numerical in-text citations in square brackets. References to unpublished materials are not permitted.

The editorial board of the *Ukrainian Chemistry Journal* does not impose strict limits on the number of bibliographic references in a manuscript. Authors independently determine the necessary scope of cited literature, guided by scientific necessity and the nature of the work.

The editorial board nonetheless recommends observing the following principles when compiling the reference list:

1. **Relevance.** Each reference must be directly related to the content of the work and must substantiate a specific statement in the text. Sources that are not directly cited in the manuscript text should not be included in the reference list.
2. **Currency of sources.** Preference should be given to recent publications reflecting the current state of the problem under investigation. References to earlier works are appropriate where they are of fundamental significance to the topic, or where they are the primary sources for the methods, phenomena, or concepts described.
3. **Balance between source types.** The reference list should include both original research articles and review papers, monographs, and, where necessary, regulatory documents or patents. An excessive concentration of references to the works of a single author or a single journal without scientific justification is discouraged.
4. **Self-citation.** Authors' references to their own previous works are acceptable and justified where these are directly related to the submitted manuscript. The editorial board recommends that the proportion of self-citations does not exceed 20% of the total number of references.
5. **Quality and verifiability of sources.** Preference should be given to sources indexed in international bibliometric databases (Scopus, Web of Science). For all references to which a DOI has been assigned, its inclusion is mandatory.
6. **Reference list length by publication type.** Although the number of references is not limited, the editorial board provisionally recommends:
 - for original research articles — 25–50 references;
 - for review articles — 60–150 references or more, depending on the breadth of the topic;
 - for short communications — 10–25 references.

These figures are indicative, not normative. The editorial board does not reject manuscripts solely on the basis of the number of references.

All sources listed in the reference list must be cited in the text of the article. The reference list is provided in two languages: first in the original language (Ukrainian), then in English (the References section). For English-language sources, both entries are identical.

For a journal article reference, the following parameters must be provided: author(s) and article title, name of the journal in which the article was published, year of publication, volume and issue number (if applicable), and the page range within the issue.

References are numbered with Arabic numerals in order of their first appearance in the manuscript text. Reference numbers in the article text are given in square brackets: [1], [2, 3], [4–7] or [5, 8–10].

Requirements for formatting bibliographic entries

All bibliographic entries are formatted in accordance with the style adopted by the journal (ACS Style or Vancouver, in accordance with the current editorial policy). Examples for the main source types are given below.

Journal article: Surname I.O., Surname I.O., Surname I.O. Article title. *Journal Title*. Year. Vol. (Issue): pages. DOI: xxxxx.

Examples:

1. Chernii V. Ya. Synthesis and properties of zirconium phthalocyanine complexes. *Ukr. Chem. J.* 2020. 86 (3): 45–52. <https://doi.org/10.XXXX/XXXX>.
2. Ivakha N.B., Berezhnytska O.S., Trunova O.K., Rusakova N.V., Smola S.S., Zheleznova L.I. New β -dicarbonyl complexes Nd, Er, Yb emitting in the IR region. *Ukrainian Chemistry Journal*. 2015. 81 (12): 104–110. [in Ukrainian].
3. Chernii V., Tretyakova I., Fedosova N., Dovbii Y., Chernii S., Losytskyy M., Gorski A., Starukhin A., Pekhnyo V., Kovalska V. Synthesis and spectral properties of mixed-ligand Zr and Hf phthalocyanine complexes with out-of-plane coordinated alkylamino- β -ketoenolate chromophores and decanoate. *Inorg. Chem. Commun.* 2024. 161: 112066. <https://doi.org/10.1016/j.inoche.2024.112066>.

Important: Journal titles are abbreviated in accordance with the ISO 4 standard (a list of accepted abbreviations is available on the journal's website). The DOI must be provided where one exists, in the format of a full URL: <https://doi.org/>... If an article has an article identifier instead of page numbers (article number), it is given in place of the page range: e.g., 112066.

Book (monograph).

Format: Author(s). *Title of the book*. City: Publisher, Year. Number of pages.

Examples:

1. Skoog D., Holler F., Crouch S. *Principles of Instrumental Analysis*. Kyiv: Naukova Dumka, 2007. 1039 p.
2. Bzovska I. S., Mryglod I. M. Modelling the kinetics of chemical reactions in heterogeneous catalysis using the example of carbon monoxide oxidation. In: Kostrobii P. P. (Ed.). *Models of Quantum-Statistical Description of Catalytic Processes on Metal Substrates: Monograph*. Lviv, 2012. P. 226–257.
3. Hastie T., Tibshirani R., Friedman J. *The Elements of Statistical Learning: Data Mining, Inference, and Prediction*. 2nd ed. New York: Springer, 2009. 745 p. <https://doi.org/10.1007/978-0-387-84858-7>.

Chapter in an edited book.

Format: Author(s) of the chapter. Chapter title. In: Editor(s) (Eds.). *Title of the book*. City: Publisher, Year. P. XX–XX.

Examples:

1. Adamska-Sałaciak A. Issues in compiling bilingual dictionaries. In: Jackson H. (Ed.). *The Bloomsbury Companion to Lexicography*. London, 2013. P. 213–231.
2. Kumari V. C., Patil S. M., Ramu R. Chromatographic techniques: types, principles, and applications. In: Badria F. A. (Ed.). *Analytical Techniques in Biosciences*. Amsterdam: Academic Press, 2022. P. 73–101. <https://doi.org/10.1016/B978-0-12-822654-4.00013-0>.

Thesis / dissertation.

Format: Author. *Title:* PhD/Doctoral thesis: specialization code. City, Year. Number of pages.

Examples:

Borovyk P.V. *Synthesis, structure and properties of coordination compounds of Ru(III), Rh(III), Pd(II), Pt(II) and Ag(I) with N-allyl-substituted carbothioamides:* PhD thesis: 02.00.01. Kyiv, 2020. 215 p.

Lysenko O. V. *Synthesis and electrochemical properties of materials with fluoride conductivity based on BaSnF₄ and heterophase compositions for fluoride-ion current sources:* Doctor of Philosophy thesis: 102 Chemistry (Natural Sciences). Kyiv, 2025. 192 p.

Patent.

Format: Author(s). Title. Country. Patent No. Date of publication.

Examples:

Chernii V. Ya., Tretyakova I. M. Method for the preparation of metal phthalocyaninates. Ukraine. Pat. No. 123456. 15.03.2022.

Or:

Separator with hydrophobic filter for the treatment of produced water return flows: pat. 112504 Ukraine: C02F 1/40, B01D 17/022, B01D 17/028, C02F 101/32. No. a 2015 07709; filed 03.08.2015; publ. 12.09.2016, Bull. No. 17 (book 1). 1 p.

Electronic resource / website.

Format: Author(s) or organisation. Title of the resource. URL (accessed: DD.MM.YYYY).

Example:

Cambridge Crystallographic Data Centre. *The Cambridge Structural Database.* <https://www.ccdc.cam.ac.uk> (accessed: 10.04.2026).

Preprint.

References to preprints (ChemRxiv, arXiv, etc.) are permitted only in exceptional cases where the corresponding article has not yet been published in a peer-reviewed journal. The preprint status must be clearly indicated.

Example:

Petrov K. P., Bender A. An Open-Source Implementation of the Scaffold Identification. *ChemRxiv*. 2024. <https://doi.org/10.26434/chemrxiv-2024-84r9x> (preprint).

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Examples:

1. Comby S., Bünzli J. C. G. Lanthanide near-infrared luminescence in molecular probes and devices. *Handbook on the Physics and Chemistry of Rare Earths*. Amsterdam: Elsevier Science B.V. 2007. 37: 235.
2. Louër D., Louër M. Méthode d'essais et erreurs pour l'indexation automatique des diagrammes de poudre [A trial-and-error method for automatic indexing of powder diagrams]. *J. Appl. Crystallogr.* 1972. 5: 271–275. [in French]. <https://doi.org/10.1107/S0021889872009483>.
3. Hindorff L. A., MacArthur J., Morales J., Junkins H. A., Hall P. N., Klemm A. K., Manolio T. A. A Catalog of Published Genome-Wide Association Studies. Available at: <http://www.genome.gov/gwastudies> (accessed: September 2012).
4. Maksymchuk O. V., Bezdobna L. K., Sidorik L. L., Kiseleva O. K., Chaschyn M. O. Cytochrome P450 2E1 expression in mice liver under exposure of continuous and acute γ -radiation. *Ukr. Biokhim. Zhurn.* 2008. 80 (4): 59–65. [in Ukrainian].

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