

Authors' guideline

If you want to publish a paper you should send a manuscript to the editorial board of the journal via e-mail jmelts@mail.ru. Composition of the manuscript's electronic version should be as follows: files containing all paper elements (text, tables, and illustrations) in PDF and DOC formats (or DOCX, RTF) and initial files of illustrations corresponded to the technical requirements. Manuscript files should be gathered in one archive (ZIP). Finally edited files should include peer-review comments and notes.

Please note that a manuscript should include full name of organization (without abbreviations) for each author, with an indication of country, city, address and postal index as well as email of the author responsible for correspondence. Since manuscript proof-reading sends only via email it is necessary to indicate an alternative email. If the manuscript has several authors at least two or three emails should be listed in order to connect with them.

All materials should be provided with author agreements. Typical forms of author agreements are in an open access here:

<http://www.maik.ru/cgi-perl/contents.pl?lang=rus&catalog=4&page=2>

Questions regarding manuscripts preparation, review duration and publication should be addressed to jmelts@mail.ru.

The first page of the manuscript should be prepared in accordance with the style file. The style file example is here: http://www.maik.ru/pub/maik_style/example.doc

The following structure for the manuscript is recommended: Introduction, Theoretical analysis, Methods, Experimental, Results and discussion, Conclusion, Reference list.

Manuscript preparations recommendations

1. If possible, use MS Word. File names should be in Latin characters without spaces. Do not use long names.
2. The file of a manuscript should be identical to the original approved by the editorial board. It should contain all corrections by peer reviewers and editors. Changes to the manuscript introduced without the approval of the editorial board will be disregarded. Electronic versions that differ from the original cannot be used.
3. The text should contain:

In Russian:

- 1. Manuscript title;
- 2. Complete list of all authors;
- 3. Complete affiliation of each author;
- 4. E-mail address of the corresponding author;
- 5. Abstract;
- 6. Keywords;
- 7. Structured body text;
- 8. References.

In English:

- 1. Manuscript title;
 - 2. Complete list of all authors;
 - 3. Complete affiliation of each author;
 - 4. E-mail address of the corresponding author;
 - 5. Abstract;
 - 6. Keywords;
 - 7. References (literature list in Latin transcription).
4. Please use only these standard fonts: Times New Roman for text, Symbol for Greek symbols, MathematicalPi2 for handwritten and gothic symbols.
 5. Fonts with point size 12 and 1.5 line spacing are the standard.
 6. Use the International System of Units (SI) for physical quantities and units of measurement, unified atomic mass units for the weights of chemical elements, and IUPAC nomenclature for chemical compounds.

Template of the manuscript's first page

UDK: 544.31

STRUCTURE OF ORGANIC COMPOUNDS

SPECTROSCOPIC STUDIES AND CRYSTAL STRUCTURE OF (*E*)-*N'*-(2-HYDROXY-3-METHOXYBENZYLIDENE)ISONICOTINOHYDRAZIDE

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Abstract: The structure of compound has also been examined crystallographically. It crystallizes in the monoclinic space group $P2_1/c$ with $a = 7.673(1)$, $b = 16.251(2)$, $c = 10.874(1)$ Å, $\beta = 110.42(1)^\circ$, $V = 1270.7(3)$ Å³, $D_x = 1.418$ g.cm⁻³, $R_1 = 0.0349$ and $wR_2 = 0.0935$ [$I > 2\sigma(I)$], respectively. The title compound has been synthesized from the reaction of isonicotinohydrazide with 2-hydroxy-3-methoxybenzaldehyde.

Keywords: compound, crystallography, spectroscopic techniques.

Introduction: Schiff bases are important in diverse field's chemistry owing to their biological activities [1–4]. Apart from the biological activities, photochromism is another characteristic of these materials leading to its application in various areas such as the control and measurement of radiation intensity, display systems and optical computers [5–8].

Text Typesetting

1. Avoid repetitive use of the space bar for indentation. Use auto formatting or the Tab key.
2. Do not end a line by pressing Enter unless this is the end of a paragraph.
3. Make full use of your text editor functions: creation of footnotes, enabling and disabling automatic hyphenation, list formatting, indents, etc.
4. Use periods rather than commas in decimals (correct: 0.25, incorrect: 0,25).
5. Dates should be rendered in the following format: January 27, 2014.
6. Text can be formatted using the Format Font window [Ctrl-D]. Symbol * is in the right part of the standard keyboards above numeric buttons. Symbol ° typeset by the combination of keys [Alt-0176]. Symbol ± is typeset by the combination of keys [Alt-0177].

Formulas

1. Formulas, chemical structures, and schemes should be placed where they appear in the text.
2. Symbols *, ', ±, single Greek characters, single italic and boldface characters, single variables and physical quantities with only one subscript or superscript, units of measure, numerical symbols, and simple mathematical or chemical formulas (e.g., $a^2 + b^2 = c^2$, H_2SO_4) should be typeset in text mode without use of imbedded frames. Other formulas should be typeset using equation editors (Equation or MathType).
3. Mathematical formulas on separate lines should be typeset completely in the frame of an equation editor. Do not typeset formulas composed of several elements: text, tables, equation frames.
4. For formulas prepared in an equation editor, standard font settings should be used. Do not change these settings for any element of a formula.

Tables

1. Each table with its heading should be placed on a separate page similarly to illustrations.
2. Tables are numbered consecutively using Roman numerals in order of mention in the text. The table heading should follow the number.
3. All columns in a table must have headings and should be divided by vertical lines.
4. Words in tables should not be abbreviated.
5. When creating a table use MS Word function (Table – Create Table) or MS Excel. Tables typeset manually with the space bar and Tab key cannot be used.

Contractions and Abbreviations

1. Avoid word contractions altogether and word abbreviations whenever possible. Abbreviations should be explained in the text unless they are commonly used.
2. Contractions made of several words should be separated by word space
3. Abbreviations and formulas of chemical compounds used as adjectives should be written with hyphen: IR-spectroscopy, OH-group, Na-form.

Units of Measure

1. Units of measure are separated from numbers by a space (17.5 mol %, 77 K, 10.34(2) A, 58 J/mol, 50 m/s²). Exceptions are: 90°, 20°C, 50%, 10‰.
2. A period is not used in abbreviated units of measure.
3. There are various ways of rendering complex units of measure; however, the selected way must be in consistent throughout the manuscript: J mol⁻¹ K⁻¹, J/(mol K), and J (mol K)⁻¹.
4. In ranges and series, retain only the final unit of measure (10–12 mg; 5, 10, and 20 kV; 25–30%; 30, 60, and 90°C). The degree when it indicates angles sign is an exception.
5. Degrees Celsius should be °C rather than °. The latter refers to angles.
6. Units of measure for quantities under the log sign should be given in square brackets: ln *t* [min].

Periods and Spaces

1. There should not be a period after the title of a manuscript or other titles and subtitles, list of authors, their affiliations, table headings, and lists of keywords.
2. The abstract, footnotes (including footnotes for tables), notes for tables, and figure captions should end with a period.
3. There should be no space after contractions in sub indexes (T_{liq} - temperature liquidus)
4. There should be spaces in references to a table or a figure: Fig. 1, Table 2.
5. There should not be spaces between quotation marks or parentheses and text included in them.(At 300 K), (a).
6. There should be a space between a paragraph mark and its number: § 5.65.
7. Numbers with letters should be rendered without spaces: IVd; 1.3.14a; Fig. 1a.

Files of illustrations

1. All illustrations should be placed at the end of the body of text together with their figure captions. If a figure consists of several parts, they should be arranged one after another and have a common caption. In a file, illustrations should not be placed in table cells or grouped in a similar way. The original files of illustrations should be submitted along with the manuscript.
2. Every illustration file should be named to make it clear which manuscript they belong to and in what order they should be placed inside the text. Each file should contain one illustration. If an illustration consists of several parts, they should be grouped in the same file with the correct arrangement of parts.
3. Vector illustrations should be presented in the format of the graphics editor used to prepare these illustrations. EPS format is also acceptable.
4. All other illustrations are acceptable in any standard graphics formats, though TIFF is preferable.

Technical requirements for Illustrations

1. General Requirements:

- 1.1. Illustrations should have sizes that match either one-column or two-column layout: 8–8.5 and 17–17.5 cm, respectively;
- 1.2. Photographs should be submitted in two variants: with and without text and inscriptions. In other illustrations, inscriptions should not touch any parts of the illustrations;
- 1.3. For inscriptions, please use standard TrueType fonts;
- 1.4. Do not add shading or grids to the background of graphs.

2. Line Illustrations:

- 2.1. Graphs and diagrams should be prepared as vector graphics;
- 2.2. Vector illustrations should have a resolution of at least 600 dpi;
- 2.3. Line widths should not be less than 0.5 pt;
- 2.4. Vector illustrations should not have dotted fill patterns like Noise, Black&White Noise, and Top noise;
- 2.5. All fonts should be embedded in a file.

3. Halftone Illustrations:

- 3.1. Halftone illustrations should have a resolution of at least 300 dpi.

4. Combined Halftone/Vector Illustrations:

- 4.1. Such illustrations should have a resolution of at least 600 dpi.

Reference list

1. Cited literature should be listed at the end of the manuscript under the “Reference list” title. Designation to the publishing source including authors (Name, surname), title of the manuscript, name of the publishing house, year of publishing, volume, number, pages, copyright holder rights is a must when citing original or translated manuscripts related to the sources published according to law: separate parts, graphics, tables, figures, schemes, diagrams etc.
2. All references should be written in the source language and numbered. Titles in Japanese, Chinese and other languages using non-latin fonts should be given in latin transliteration. If the source has English version the reference to it with DOI indication is

obligated. Bibliographic reference in the text should be performed in the following form: [index number] in square brackets. Citing two or more manuscripts under the same number or one and the same manuscript is not allowed.

3. References to books translated into Russian should be accompanied by the references to original publications indicating imprints.
4. References should contain the following information:

Journals: authors, name of the manuscript, name of the publishing house, year of publishing, volume, number (if any), pages, copyright indicating the holders rights, for international journals the CASSI standard is necessary.

Books: authors, name of the book, publisher, year of publishing, volume, number of publication, part, chapter, and page.

Collected volumes, volumes of reports, conferences, symposiums etc.: author, manuscript title, name of the volume (conference, symposium), city (place), publisher, year, volume, number, number of source's first page.

Monographs: authors, name, imprint details (place of publishing, publishing house, quantity of pages

Internet-source: Kondratiev V.B. The global pharmaceutical industry. Available at: <http://global-pharmaceuticals.com/2-011-07.html>.

PhD thesis: Semenov V.I. Mathematical modeling in the complex torus system. Dr.phys. and math.diss.Moscow, 2003.272p.

All Union State Standard (GOST) description: State Standard 8.586.5-2005.Method of measurement. Measurement of flow rate and volume of liquids and gases by means of orifice devices. Moscow. Standardinform Publ., 2007. 10p.

Patent description: Palkin M.V. The way to orient on the roll of aircraft with optical homing head. Patent RF, no.2280590,2006.

Abstract

Abstract is an independent source of information. It should be:

- Informative (do not contain common words and phrases);
- Interesting (do not copy the manuscript);
- Substantial (reflect the main manuscript idea);
- Logical and compact (from 100 to 250 words).
-

The abstract is available at *jmelts.com* and identified by web search engines.

Abstract structure and volume:

The structure should be the same as in the article (introduction, purposes, methods, results and discussion, conclusions). The aim of the work should be named only if it is unclear from the article title; methods should be described in details only if they are novel or interesting in relation to this particular work; results should be given very precisely; conclusions may contain recommendations, suggestions and hypothesis. The language of the abstract should be scientific, clear and laconic. The volume of the abstract is not more than 250 words.

Keywords should reflect the main content of the article, do not repeat title and abstract expressions. They should determine the scientific range of the article and be important in understanding and identifying the article in the web search engines.