ZEITSCHRIFT FÜR NATURFORSCHUNG B CHEMICAL SCIENCES
INSTRUCTIONS TO CONTRIBUTORS

General Information

Zeitschrift für Naturforschung B publishes articles on fundamental studies in all areas of inorganic chemistry, organic chemistry, and analytical chemistry. Articles reporting mainly routine spectroscopic, X-ray, or other data of no general importance should not be submitted. The contributions should meet the highest standard as to novelty of the material, organization, and conciseness. They must not have been published elsewhere (including web publication and electronic conferences). The manuscripts should be correct in grammar and style. All contributions are subject to peer review. Authors may suggest competent referees for their papers.

Categories of Contributions

i. original (full) papers
ii. research notes and preliminary communications not exceeding two pages in print
iii. reports on specific research topics of current interest (reviews). Authors are kindly requested to contact the editors before writing contributions of this type.

Languages: All contributions may be written in English or German.

Manuscript Submission

Manuscripts must be submitted electronically *via* e-mail to the Editorial Office at znb AT znaturforsch.com. Electronic mail for the Editorial Office must have a meaningful subject line clearly indicating that it is correspondence for *Zeitschrift für Naturforschung B*.
A directly printable version of the contribution is required to be forwarded for refereeing. Acceptable file formats are MS WORD (DOC, DOCX), RTF, or PDF. All elements (text, tables, figures, figure captions, equations, and formula drawings and schemes) must be incorporated into one manuscript document file.
In addition, for each X-ray structure determination reported in the paper the respective crystallographic information file (CIF) should also be submitted for evaluation purposes (each CIF file separately, not concatenated and not contained in the manuscript file). The deposition of the crystal structure data has to be done by the authors, however, and the respective CSD/CCDC numbers must be provided at the time of manuscript submission.

Final Version

The author(s) will be informed of the comments of the referees and of the editorial decision by electronic mail. After acceptance of the paper, the Editorial Office will ask for a revised electronic version of the manuscript. In addition to the final manuscript all figures have to be provided as separate graphics files.

Manuscript Preparation

A simple template in English is provided for the preparation of manuscripts. These optional templates contain but the most basic features required for any manuscript and may serve as a quick guide. More detailed information is given below.

The manuscript pages should be prepared with margins of 2.5 cm and with double-line spacing; all pages must be numbered. A sufficiently large character size should be used (*e. g.* Times New Roman, 12 pt).

The material should be placed in the following order:

- Running title (maximum 60 characters)
- Authors' names (*e. g.* Jan Baier, Tom F. Miller, and John F. Kelly)
- Title (German and English if the paper is written in German)
- Abstract
- Keywords (up to five)
- Corresponding author's name with academic title, affiliation and full address including fax number and e-mail address
- Names of other authors with academic title, affiliation and address grouped according to affiliation.
- Dedication (optional)
- Main text
- Concise summary of the Supporting Information published online only (optional)
- Acknowledgment (optional)
- List of references and footnotes

Tables, figures, and schemes are to be mentioned in the text in numerical order. They may be placed at the end of the manuscript or integrated at appropriate places in the text file. Figure captions must not be a constituent of the figures but should be written *underneath* them with the respective word processor used.
Table captions should be written *above* the table. Tables must not be set up with excessive use of spaces (blanks), tabstops and returns but with the appropriate tabular functions of the word processing program used.
It is not necessary to list the captions separately if they are written already together with the tables, figures and schemes as indicated above.

Abstract

The abstract should be short, concise, and must be suitable for direct use by the abstracting journals. Only the more commonly used abbreviations should be used, otherwise they must be defined. Compound numbers may be used if they have been properly defined before. IUPAC names should be avoided. Citations should be avoided in the abstract or must be in the form of the full bibliographical reference.

Main Text

The main text should be organized as follows:
- Introduction
- Results and Discussion (combined or separate)
- Conclusion (optional)
- Experimental Section.

Alternatively, if the description of the experimental methods is essential to the understanding of the results and their discussion, the main text may be ordered:
- Introduction
- Experimental Section
- Results and Discussion (combined or separate)
- Conclusion (optional),.

References

References must be numbered consecutively by order of mention in the text and listed corresponding to the following examples. Journal abbreviations must be in accordance with the Chemical Abstracts Service Source Index at http://cassi.cas.org/. In the text references have to be indicated by arabic numbers placed in brackets (examples: [1]; [2–8]; [9, 10]). Every literature citation should have its own reference number, *i. e.*, multiple references

under one number and subreferences listed with a) ...; b) ... should be given an own number [1], [2]. For the journal *Angewandte Chemie* only the international edition should be cited.
Journals: [1] A. Meyer, E. Schmid, *Z. Naturforsch.* **2001**, *56b*, 503–510.
Books without editor: [2] M. Bodansky, *Principles of Peptide Synthesis*, Springer, Berlin, **1984**.
Books with editor*:* [3] H. Müller in *Inorganic Experiments*, Vol. 7 (Eds.: H. Wood, F. Belger), VCH, Weinheim, **1994**, chapter 4.8, p. 321.
Patents*:* [4] K. Ziegler, H. Breil, E. Holzkamp, H. Martin, DBP 973626, **1960**.
Programs*:* [5] G. M. Sheldrick, SHELXL-97, Program for the Refinement of Crystal Structures, University of Göttingen, Göttingen (Germany) **1997**. [6] G. M. Sheldrick, *Acta Crystallogr*. **2008**, *A64*, 112–122. [7] A. L. Spek, PLATON, A Multipurpose Crystallographic Tool, Utrecht University, Utrecht (The Netherlands) **2000**. [8] A. L. Spek, *Acta Crystallogr*. **2009**, *D65*, 148–155.. [9] C. K. Johnson, M. N. Burnett, ORTEP-III (version 1.0.2), Rep. ORNL-6895, Oak Ridge National Laboratory, Oak Ridge, TN (USA) **1996**. [10] L. J. Farrugia, WINGX, A MS-Windows System of Programs for Solving, Refining and Analysing Single Crystal X-ray Diffraction Data for Small Molecules, University of Glasgow, Glasgow, Scotland (U. K.) **2005**. [11] L. J. Farrugia, *J. Appl. Crystallogr.* **2012**, *45*, 849–854. [12] DENZO-SMN: Z. Otwinowski, W. Minor in *Methods in Enzymology*, Vol. 276, *Macromolecular Crystallography*, Part A (Eds.: C. W. Carter Jr, R. M. Sweet), Academic Press, New York, **1997**, pp. 307–326.

Footnotes

Footnotes to the text have to be listed on an extra page. In the text they have to be indicated by superscript arabic numbers ([1, 2, 3]...). Footnotes in tables are to be placed directly under the table and indicated and preceded by superscript lower case letters ([a] ...; [b] ...; [c] ....).

Formatting of Characters

Symbols of physical quantities, but not their units (*e. g. c* for concentration, δ for chemical shifts), stereochemical descriptors (*R, S, cis, trans*), locants (*O*-ethyl), prefixes in formulas and names (*t*Bu, *tert*-butyl) must be typed in italics. Exception: The stereochemical descriptors L and D should be written in small capitals (L-alanine, D-(+)-glucose). The preferred forms for some commonly used units and abbreviations are °C, K, cm, L, mL, g, mg, mol, mmol, 2.5 M solution, ppm, nm, pm, Å, deg, s, min, h, m. p., b. p, MoK_α, Cu$K_{\alpha1}$. Space group symbols should be formatted as in the following examples: *P*1, *P*2$_1$, *P*2$_1$/*c*, *C*2/*c*, *P*2$_1$2$_1$2$_1$, *Cmc*2$_1$, *Pnma*, *Cmce*, *Imma*, *Fm*3*m*.

Equations

Equations have to be typewritten or written with a suitable equation editor of your word processing program, *e. g.* the Microsoft equation editor, or MathType for equations. Submit equations created with MathType as separate files converted into LaTeX. When necessary for reference they should be given arabic numbers placed in parentheses to the right side of the equation. References to equations in the text should read: eq. (3).

Graphics

Graphics are schemes and figures. They should be designed, if possible, for reproduction in a one-column format (7.6 cm wide). All graphics should be produced with a good quality laser printer and have lines, letters, numbers and symbols of uniform strength and contrast. After acceptance of the contribution, all graphics must be provided as separate files.

Scaling of Graphics

For optimum reproduction, the graphics should be larger than the desired final size. Authors should pay attention to the line widths, for some features (*e. g.* dotted and thin lines) may disappear after reduction to the final format. The other extreme, such as heavy lettering and thick lines, should be avoided. We recommend to prepare all artwork intended for 1-column format with a maximum graphic width of 15 of 17 cm and a lettering of 3.5 or 4.0 mm, respectively. After reduction to 1-column format, the letter height should be 1.5–2 mm..

Figures

Lowercase letters a, b, c, *etc*. should be used to identify parts of multi-part figures. In the captions, these letters are included in parentheses. Cite all figures in the text in numerical order. Indicate the approximate placement of each figure. Figures will be accepted either in the
– TIFF-format: resolution at least 300 dpi for digital halftones and 800 dpi for line drawings or
– as vector graphics in the PostScript format (PS, EPS): fonts should be included and all lines must have a width of at least 0.2 mm (0.567 pt)!
The figure captions should not be a constituent of the figures.Color illustrations: Store color illustrations as RGB (8 bits per channel) in TIFF format (resolution 150 dpi/final size). Color figures will be printed free of charge.

Text

Preferred text formats: MS WORD (DOC, DOCX), RTF, or LaTeX. Manuscripts written with LaTeX must be accompanied by the corresponding PDF file
Layout guidelines:
Use a normal, plain font (*e. g.* Times New Roman, 12 pt) in the same size for the abstract, main text, and references.
Type using double line spacing.
Use the automatic page numbering function to number the pages.
Do not use field functions, especially not to create the list of references.
Deactivate hyphenations. Do not use manual hyphenations.
For indents use hard returns or tabstops (but not spaces).
Use the tabular functions of the word processing program used to set up tables.

Presentation of Data in the Experimental Section

Physical and Spectroscopic Data (Examples)

M. p. 41 °C. – B. p. 120 °C/0.018 mbar. – UV/Vis (CH_2Cl_2): λ_{max} (lg ε_{max}) = 321 nm (3.86). – $[\alpha]_D^{20}$ = –15.4 (*c* = 0.15, $CHCl_3$). – IR (film): ν = 1738 (C=O), 1439, 1325, 1260, 1201, 1167, 1081 cm^{-1}.– ^{1}H NMR (500.14 MHz, $CDCl_3$, 25 °C, TMS): δ = 1.06, 1.07, 1.15, 1.17 (4 × d, 12 H, CH*Me*), 2.00 (d, *J* = 4.1 Hz, 1 H, 4-H), 2.50 (dd, *J* = 4.1, 3.4 Hz, 1 H, 3a-H), 3.68 (s, 3 H, OMe), 3.69 (s, 3 H, OMe), 4.01 (d, ^2J = 10.3 Hz, 3-H^1), 4.21 (dd, ^2J = 10.3 Hz, ^3J = 3.4 Hz, 3-H^2). – ^{13}C NMR (125.76 MHz, [D_8]THF): δ = 12.04 (SiCH), 13.18 (SiCH), 16.64, 16.89, 17.37, 17.51 (all CH*Me*), 25.80 (C-4), 27.78 (C-4a), 30.73 (C-3a), 51.95 (OMe), 52.00 (OMe), 67.07 (CH_2), 170.33 (C=O), 170.84 (C=O). – ^{29}Si{^{1}H} NMR: δ = 28.18. – MS (EI, 70 eV): *m/z* (%) = 453 (100) $[M–Cl]^+$. HRMS ((+)-ESI): *m/z* = 365.03250 (calcd. 365.03258 for $C_{16}H_{13}O_8S$, $[M+H]^+$), 387.01447 (calcd. 387.01452 for $C_{16}H_{12}O_8SNa$, $[M+Na]^+$) – $C_{14}H_{24}O_5Si$ (300.4): calcd. C 55.97, H 8.05; found C 55.82, H 8.01.

Crystallographic Data

The following essential crystallographic information must be given in the text (Experimental Section) or in tabular form: Crystal shape and size, empirical formula, relative molecular mass, crystal system, space group with number as listed in the International Tables, unit cell dimensions (*a, b, c*, in Å or pm, α, β, γ in degrees) with estimated standard deviations in units of the

last significant figure in parentheses, number of molecules (formula units) in unit cell, calculated and/or measured density, linear absorption coefficient, total of electrons in unit cell, temperature of data collection. Type of diffractometer and radiation used, monochromator, data collection mode (scan type and width), θ range and reciprocal lattice segments measured, number of reflections measured, number of symmetry-independent reflections, cut-off criterion if applied, method of absorption and/or decay correction. Method of structure solution and refinement, number of positional and atomic displacement parameters refined, restraints and constraints if applied, final *R* and *Rw* values (in decimal numbers) for the data set used in the final refinement (for non-centrosymmetric crystal structures also the Flack parameter *x* has to be refined), information on the weighting scheme used in the refinement, residual electron density. Programs used (with references).

Complete tables with positional parameters, displacement parameters, bond angles and interatomic distances will be printed only if these data are indispensable for the discussion of the structure.

Deposition of Crystal Structure Data

Crystal structure data of compounds **not containing C–H bonds** must be deposited **by the authors** at Fachinformationszentrum Karlsruhe, and the respective CSD number must be provided at the time of manuscript submission. E-mail to: crysdata@fiz-karlsruhe.de. Further information: http://www.fiz-informationsdienste.de/en/DB/icsd/depot.html. The following standard paragraph or footnote should appear in the manuscript:

Further details of the crystal structure investigation may be obtained from Fachinformationszentrum Karlsruhe, 76344 Eggenstein-Leopoldshafen, Germany (fax: +49-7247-808-666; e-mail: crysdata@fiz-karlsruhe.de, http://www.fiz-informationsdienste.de/en/DB/icsd/depot_anforderung.html) on quoting the deposition number CSD-######.

Crystal structure data of compounds **containing C–H bonds** must be deposited **by the authors** at the Cambridge Crystallographic Data Centre (CCDC), 12 Union Road, Cambridge CB2 1EZ, UK, and the respective CCDC number must be provided at the time of manuscript submission. E-mail to: deposit@ccdc.cam.ac.uk. Further information: http://www.ccdc.cam.ac.uk. The following standard paragraph or footnote should appear in the manuscript:

CCDC ###### contains the supplementary crystallographic data for this paper. These data can be obtained free of charge from The Cambridge Crystallographic Data Centre *via* www.ccdc.cam.ac.uk/data_request/cif.

Crystal structure data of **metals and alloys** have to be deposited at The Metals Database (CRYSTMET®). See http://www.tothcanada.com/ for details.

Supporting Information

Additional tables, figures, videos, appendices or other additional material can be submitted as Supporting Information for online only publication. Supporting information should be submitted as separate file(s) during submission. Within the text, supporting Information must be cited consecutively and be referred to as Supporting Information (*e. g.*, see Supporting Information, Figure S1): If the manuscript is accepted and the supporting information is posted online, it will be referenced in the article of the printed version.

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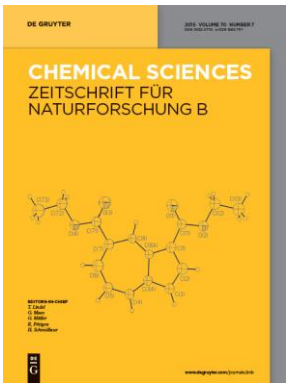

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