

Quick Start Guide

Please prepare the manuscript in Word according to the Instructions for Authors with graphics and tables integrated into the text, using the manuscript template available at www.thieme.de/de/synopen/author-tools-102905.htm. Manuscripts must be submitted via <http://mc.manuscriptcentral.com/synopen>.

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SynOpen implements a “Pay What You Want” model for APCs. This means that once a manuscript has been accepted for publication and it comes to paying a publication charge, the author decides how much to pay. We are giving you the choice to pay any price you feel appropriate.

Before submission

Prepare the cover letter and have available all information on the manuscript (title, key words, full name and affiliation of all authors, abstract, names of all files to be submitted).

File submission

The following items should be uploaded:

- **Cover letter**
- **Manuscript main document:** Please embed the tables/figures/schemes in the relevant positions. Template usage is highly recommended.
- **Graphic files:** originals, preferred in one zip file
- **Graphical abstract:** for the table of contents and the first manuscript page
- **Supporting Information:** as separate file
- **Primary Data (optional):** as zip file

Preparation of text

- Use the paragraph styles available within the template; do not create new styles, and do not alter those that are preassigned.
- Use only one space after reference numbers, do not use tabs.
- Captions for graphic files should be given as part of the manuscript text, not as text within the graphic.
- Ensure that all graphics and tables are mentioned in the text.
- Avoid underlinings and indentations.
- Follow further instructions as detailed in the manuscript template.

Tables

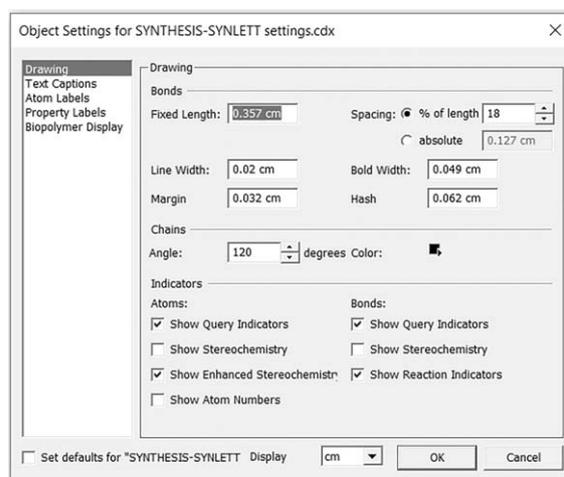
- Must be created in Word format.
- Place each item (paragraph, graphic, etc.) in its own cell.

Photos

We accept only JPG and TIF files (not less than 300 dpi).

Graphic files

ChemDraw files are preferred, with these settings and font size 6:



If the pre-installed ChemDraw settings (File – Apply Document Settings from – **SYNTHESIS, SYNLETT** Document) are used, the images must be scaled down to 69% to reach the correct final sizes: 8.3 cm (3.3 in.) for 1-column width and 17.3 cm (6.8 in.) for 2-column width, respectively.

We also accept IsisDraw, ChemWindows and Photo-shop files, but please adhere to the above settings.

The Editorial Office is happy to offer advice concerning all technical aspects of manuscript submission:

synlett_synthesis@thieme.de

1 Editorial Policy

1.1 SynOpen is an international open access journal reporting technically solid and sound current research results in chemical synthesis in full paper and letter format. It covers all fields of scientific endeavor that involve organic synthesis, including catalysis, organometallic, medicinal, biological, and photochemistry, but also related disciplines and offers the possibility to publish scientific primary data. Full papers provide dependable research results with detailed and reliable experimental procedures and full characterization of all important new products.

As an open-access publication, all articles in **SynOpen** are freely available for all to read and download.

1.2 Original Papers report original research that has not been previously published, except in the form of an abstract or preliminary communication, and is not being considered for publication elsewhere. Original Papers are evaluated with the aid of referees on the basis of scientific quality, originality, and general interest to the readership. Inappropriate manuscripts may also be rejected without consulting referees. Authors are required to submit a brief statement of the significance of the work presented and suggest possible referees. Not all manuscripts submitted can be accepted for publication; research based on analogy without claim to special significance, including a simple change of conditions (e.g., conventional heating to microwave irradiation), will not be considered.

All Original Papers must contain:

- The source of all less common starting materials.
- Detailed experimental procedures.
- A full set of spectroscopic and physical data for:
 - all new compounds with significantly different structures from each other,
 - representative examples of new compounds with similar structures when they are prepared by the same or similar methods,
 - all isolated intermediates in multistep syntheses, except when they are too labile.

The following data must be included:

- isolated yield [% and mass yield (on g or mol scale)]
- physical state and color
- melting point (for all solids)
- optical rotation (if applicable)
- retention factor (if applicable)
- IR, ^1H and ^{13}C NMR, MS
- elemental analysis [where this is not possible (e.g., high molecular weight compounds), HRMS and ^{13}C NMR data may be acceptable at the Editor's discretion]; elemental analysis calculated and found values should be within $\pm 0.4\%$.

- Limited comparative physical data from the literature and the corresponding reference or CAS number for known compounds.
- Clear formula schemes including reaction conditions and % yields.
- Notation of the scope and limitations of the work reported.
- Adequate citation of other work in the area.

1.3 Letters (normally not to exceed 4 template-based pages, including tables, graphics, and references and notes) are preliminary reports of new research results, the significance of which to the scientific community justifies rapid communication. Letters are evaluated with the aid of referees on the basis of quality, originality, and general interest. Inappropriate manuscripts may also be rejected without consulting referees. Authors are required to submit a brief statement of the significance of the work presented. The results should not have been previously published in any form or have been submitted for publication elsewhere.

1.4 PSP (Practical Synthetic Procedures) (up to 4 template-based pages, including tables and graphics) present, in a compact form, useful and reliable procedures of interest for both academic and industrial chemists. Special attention should be given to **Scope and Limitations** of the described synthetic methods. PSP articles must satisfy the requirements given for papers and start with a scheme summarizing the procedure(s).

1.5 Reviews (up to 25 template-based pages, including tables and graphics) and **Short Reviews** (up to 10 template-based pages) present and critically evaluate recent developments and updates in a specific area of high interest to the readership. They provide a concise assessment of the current state of the art and an outlook on future developments. Authors wishing to submit a review or short review are requested to first contact Professor Laurence Harwood.

2 Manuscript Submission

2.1 Instructions for Electronic Submission

Manuscripts must be submitted online at <http://mc.manuscriptcentral.com/synopen>.

Commonly used text processors should be used for preparation of the manuscripts. The manuscript must be accompanied by a cover letter, in which the authors briefly explain the significance of their findings and the interest to the readership of **SynOpen**.

The manuscript (main text, tables, structural formulas and figures) should be submitted as one file. Authors will be guided stepwise through the uploading of various files. Before submission, prepare and have available all information on the manuscript (cover letter, title, full name and affiliation of all authors, abstract, all

files to be submitted). Appropriate key words should be chosen/added during step 3 of the submission process. The system automatically converts source files (Word and PDF files) into a single Adobe Acrobat PDF version of the article, which is used in the peer-review process. Please note that even though manuscript source files are converted into PDF at submission for the review process, these source files are needed for further processing after acceptance. All correspondence, including notification of the editor's decision and requests for revision, takes place by e-mail.

3 Manuscript Preparation

3.1 Authors should first examine current articles from **SynOpen** for guidance with respect to format, style, and presentation. We generally follow style guidelines set forth by the American Chemical Society.

The **language** of publication is English. When this is not the author's first language, the manuscript should receive language polishing from someone with very good English writing skills before submission. Thieme offers a language editing service for manuscripts in partnership with Enago, a world-leading provider of author services to researchers around the world. Authors can choose from a range of editing services and get their manuscripts edited by Enago's professional editors. Authors that wish to use this service will receive a 20% discount on all editing services. To find out more information or get a quote, please visit www.enago.com/thieme. British and American spellings are both acceptable as long as consistency is maintained throughout an individual manuscript.

3.2 Cover letter: highlighting the significance and urgency of the submitted work, and providing details of other relevant information (for example, submitted or in press manuscripts).

3.3 Manuscript main document: It is necessary to embed the tables/figures/schemes in the relevant position of the manuscript file. The manuscript (main text, tables, structural formulas and figures) should be submitted as one file. Authors are strongly encouraged to use the template for manuscript preparation, available at www.thieme.de/de/synopen/author-tools-102905.htm. Manuscripts can also be submitted without using the template, although this is not the preferred option. All non-template manuscripts must still be presented in a format that is both logical and easy to follow, otherwise they may be rejected without evaluation. All graphics and tables must be integrated into this file.

3.4 Nomenclature should be based on the systematic rules adopted by the IUPAC or Chemical Abstracts. We recommend that authors check their nomenclature carefully before submission. Trivial names should be avoided unless they offer a distinct advantage over the corresponding systematic names.

The use of **abbreviations** is recommended in the experimental section, tables, and formula schemes, but should not be used in the title, abstract or text. Common abbreviations, such as *t*-Bu, Et, Me, Ph, DMF, mp, mL, mmol, and min, do not need to be defined; less common or ambiguous abbreviations should be defined when they first appear (see also the abbreviation list at www.thieme.de/de/synopen/author-tools-102905.htm). **SI Units** should be used.

3.5 Graphic Abstracts. A drawing, representing a visual summary of the work performed, must be provided [maximum dimensions 11 × 5 cm (4.3 × 2.0 in.), using the same settings as required for all other drawings]. The graphic abstract, which appears in the Table of Contents and on the first manuscript page, will often determine whether a reader continues on to read the full article. Therefore, accurate, informative, and clear graphics are required and the use of color is strongly encouraged. Graphic abstracts should convey the major point of the article to the reader; equations given should be clear and substantive information (yields, substrate scope, reaction conditions, etc.) should be included. The graphic abstract does not replace the written abstract. Samples are available for download from www.thieme.de/de/synopen/author-tools-102905.htm.

3.6 The **title** (maximum 200 characters, including spaces) should reflect the contents of the manuscript. First letters of all words, except for conjunctions, articles, and prepositions, should be capitalized.

The **names** of the authors (please spell out first and last names) and the **addresses** at which the research was performed should appear under the title. Authors should also include their e-mail address for correspondence and their ORCID, if available. Use the letters a, b, etc. as superscripts to relate authors to addresses, and a star to indicate the author to whom correspondence regarding the paper should be addressed. Use a number in the References section to give the current address of an author when necessary, please do not use any other symbols. A short **dedication** may appear after the address.

3.7 All articles must contain a written **abstract**, which should summarize the results and conclusions of the research performed without using compound numbers.

3.8 Formula schemes, figures, and artwork require unique titles and must be referred to in the text. Drawings can only be named Scheme, Figure, or Equation. In Schemes (which show reactions) where the reaction conditions are not given in the caption, reagents and conditions should appear above the arrow, with yields and selectivity results below the arrow.

Color graphics will appear as such in the galley proof and in the electronic version, but will be reproduced in the print version only in cases where the color is

deemed to add significantly to the scientific understanding of the paper. All inquiries should be directed to the editorial office.

3.9 Tables must be created in Word format and must have a title. Designate footnotes as superscript a, b, c, etc. Drawing software should only be used for drawings but not for the design of whole tables.

3.10 For **Original Papers** and **PSPs**, the **experimental section** must contain all the information necessary to guarantee reproducibility. In an introductory paragraph, information concerning solvents, sources of less common starting materials, and makes and models of instrumentation used in the collection of analytical data should be detailed. Write procedures in the past tense, and include the weight, mmol, volume, etc. in brackets after the names of the substances or solvent, for example:

... To a solution of (1S)-(+)-camphorsulfonyl chloride (2.5 g, 10.0 mmol) in MeOH (20 mL) was added ...

A precise workup procedure containing all details, including the amount of solvent used for extraction and details of chromatographic purification, should be given. All compounds, solvents and drying agents should be named; common abbreviations and formulae such as THF and CH₂Cl₂ should be used. Physical and spectroscopic data should be included in the experimental section or, in cases where a large number of compounds are prepared, presented in tables. Spectroscopic data should be presented according to the ACS Style Guide and be stated in the order and format shown in the following examples:

Mp 241–234 °C; [α]_D²⁰ +25.4 (c 1.00, CHCl₃); *R*_f = 0.3 (hexanes–EtOAc, 5:1).

IR (KBr): 3245, 3120, 1720, 1690, 1535, 1460 cm⁻¹.

¹H NMR (400 MHz, CDCl₃): δ = 2.44 (s, 3 H, CH₃), 2.79 (s, 3 H, COCH₃), 7.20 (d, *J* = 8.1 Hz, 1 H, H-7), 7.51 (d, *J* = 6.3 Hz, 1 H, H-8), 7.85 (s, 1 H, H-5), 17.75 (s, 1 H, OH).

NMR: Always give coupling constants for well-resolved peaks. After each chemical shift, enter in parentheses multiplicity, coupling constants, number of protons, and assignment, in that order.

¹³C NMR (100 MHz, DMSO-*d*₆): δ = 8.9, 30.3, 51.9, 66.2, 169.6, 178.8.

³¹P NMR and other NMR nuclei likewise.

MS (EI, 70 eV): *m/z* (%) = 213.9 (90), 270.2 (100) [M + H]⁺.

HRMS–FAB: *m/z* [M + H]⁺ calcd for C₂₁H₃₈N₄O₆S: 475.5285; found: 475.5267.

UV/Vis (CH₂Cl₂): λ_{\max} (log ϵ) = 236 (4.00), 278 (4.59), 284 (4.57), 329 nm (3.41); or UV (CH₂Cl₂): λ_{\max} (ϵ) = 268 (21900), 458 nm (68800).

Anal. Calcd for C₃₂H₅₀BrP: C, 70.44; H, 9.24. Found: C, 70.32; H, 9.43.

Physical appearance (color, state) and yield are required for all compounds described in the experimental section. Product yields should be given in terms of g or mol as well as in % and it should be specified if this is for crude or pure product.

For **Letters**, a formal experimental section is not required. Authors are nevertheless asked to provide sufficient experimental details in the References and Notes section, such that important new work reported can be repeated (quantities of reactants and solvents, reaction time, reaction temperature, workup details, and yield data). In addition, physical and spectroscopic data for significant new compounds should be supplied, as well as microanalytical or HRMS and ¹³C NMR data when appropriate.

Crystallographic Data. Complete X-ray data will not be published. These data should be deposited at an appropriate international data institute, and the deposition number cited in a reference. If a representation of the crystal structure (e.g., ORTEP) is to be included, it should be accompanied by the following data: (1) formula, (2) crystal data, (3) method of collection, (4) methods of structure solution and refinement, and (5) selected bond lengths and angles.

CAS registry numbers may be supplied in the following format [CAS Reg. No. xxxxxx-xx-x] and placed under the compound name title.

3.11 Supporting Information: Required are copies of ¹H and ¹³C NMR spectra of all isolated new and important intermediate compounds and, if cited in the reference section, copies of unpublished papers that are “submitted”, “accepted for publication” or “in press”; both in Word or PDF format. These will be used in the reviewing process and the spectra can also be published online if indicated. All other supporting information is optional.

Primary experimental data (optional) are all types of analytical data in their original format as obtained from the technical equipment used for compound characterization. All data should be supplied in a logically structured form and uploaded as zip files. Data for specific compounds should be summarized in separate folders with subfolders for each analytical technique (¹H NMR, ¹³C NMR, MS, HRMS, etc.). An additional Word document must be included, describing the software that allows for processing of the data, as well as giving the structures and corresponding compound numbers for all provided data sets (see also www.thieme.de/synopen/author-guidelines-102906.htm). Primary data will be published in zip format and will receive a unique DOI different from that of the corresponding article. This allows independent citation of the data.

3.12 Acknowledgments should be brief and placed before the References.

3.13 Funding Information should include all funding sources and funder grant/award numbers relevant to the manuscript.

3.14 References should be placed collectively after the Acknowledgment and numbered consecutively. Authors are encouraged to list all relevant references and cite extensively. Cited work that is unpublished at the moment of submission (“submitted”, “accepted for publication” or “in press”) must be provided as part of the “Supporting Information (for peer-review only)”. References to articles submitted to preprint servers (i.e. ChemRxiv) should be provided including the respective DOI. When one reference number contains more than one citation, please separate them into (a), (b), (c), etc. (see example 3). Provide the names and initials of **all** authors and do not use et al. Use journal abbreviations in accordance with Chemical Abstracts (Chemical Abstracts Source Index, CASSI). Please do not use tabs.

SynOpen should be cited as follows: *SynOpen* **year**, *volume*, first page number.

Examples of References

- (1) New address: P. J. Kocienski, School of Chemistry, University of Leeds, Leeds LS2 9JT, UK.
- (2) Lim, D. S. W.; Anderson, E. A. *Synthesis* **2012**, *44*, 983.
- (3) Delgue, E.; Seoane, G.; Brovetto, M. *Synthesis* **2016**, DOI: 10.1055/s-0035-1561494.
- (4) (a) List, B. *Synlett* **2001**, 1675. (b) Harb, H. Y.; Procter, D. J. *Synlett* **2012**, *23*, 6. (c) Müller, T. J. J. *Synthesis* **2012**, *44*, 159. (d) Kocienski, P. *Synfacts* **2012**, *8*, 5.
- (5) Meyers, A. I.; Flanagan, M. E. *Org. Synth. Coll. Vol. IX*; John Wiley & Sons: London, **1998**, 258.
- (6) Corey, E. J.; Cheng, X. M. *The Logic of Chemical Synthesis*; Wiley: New York, **1989**.
- (7) Reissig, H.-U.; Zimmer, R. In *Science of Synthesis*, Vol. 33; Molander, G.-A., Ed.; Thieme: Stuttgart, **2006**, 371.
- (8) Kolotilo, N. V.; Sinita, A. A.; Rassukana, Yu. V.; Onys'ko, P. P. *Zh. Obshch. Khim.* **2006**, *76*, 1260; *Chem. Abstr.* **2006**, *146*, 316980.
- (9) Nakamura, H.; Yamamoto, H. *PCT Int. Appl. WO* 2005043630, **2005**; *Chem. Abstr.* **2005**, *142*, 440277.

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6 Additional Information

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6.2 Authors receive electronic **reprints** in PDF format free of charge after publication.

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