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1 Editorial Policy

1.1 SYNTHESIS is an international journal devoted to the advancement of the science of synthetic chemistry. The journal publishes reviews and papers concerning synthesis in the broadest context of organic chemistry, including organometallic and organoheteroatom chemistry, photochemistry, medicinal and biological chemistry, natural products, organic polymers, and materials. Advances in mechanism, spectroscopy, and separation science that have a significant impact on synthetic chemistry are also part of the purview of SYNTHESIS.

Preprints. The editors of SYNTHESIS consider any manuscript made available to the public on personal web pages, in electronic journals, public computer databases, or news groups as published and therefore **not acceptable**.

1.2 Reviews (up to 25 template-based pages, including tables and graphics) present and critically evaluate recent developments in a specific area of interest to the readership. They are normally invited; authors wishing to submit a review are requested to first contact Professor D. Enders, the Editor in Chief.

1.3 Papers (up to 12 template-based pages, including tables and graphics) report original research which has not been previously published, except in the form of an abstract or preliminary communication, and is not being considered for publication elsewhere. Papers are to be submitted to the appropriate Regional Editor, who evaluates them with the aid of referees on the basis of scientific quality, originality, and general interest to the readership. The Editor may also reject inappropriate manuscripts without consulting referees. Authors are required to submit on a separate sheet 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.

In addition, all papers must contain:

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

- Elemental analyses for all significant new products (where this is not possible, for example, large 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 $\pm 0.4\%$.
- For known products: limited comparative physical data from the literature and the corresponding reference.
- 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.

1.4 Short Papers (2-3 template-based pages, including tables and graphics) report new results not published previously in a preliminary form. They must satisfy the requirements given above for papers, from which they differ mainly in scope. Short papers differ from preliminary communications in that they are definitive publications of fully developed research containing complete experimental details.

1.5 Feature Articles (up to 12 template-based pages, including tables and graphics) are research papers that are given special prominence because of their high scientific standard and general interest. Feature Articles are invited or selected by the Editors. The goal of a Feature Article is to inform the broad readership of the journal about outstanding and seminal research in the field of synthetic organic chemistry. The significance of the work within the broader context of organic chemistry should be stated in the introduction. In makeup and organization, they must satisfy the requirements given above for papers.

1.6 PSP Articles (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). PSP articles are generally invited, but authors wishing to submit a contribution may do so to the appropriate Regional Editor.

1.7 Book Reviews that are of specific interest to synthetic chemists are published. These define the subject area and scope of the book and critically evaluate the contents. Book Reviews are invited by the Book Review Editor at the editorial office (please contact Stefanie Baumann at stefanie.baumann@thieme.de). Suggestions for books to be reviewed and for reviewers are actively encouraged.

2 Manuscript Preparation and Technical Details for Submission

2.1 Authors should first examine a current issue of SYNTHESIS 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 native language, the manuscript should receive language polishing from a native speaker before submission. British and American spellings are both acceptable as long as consistency is maintained throughout an individual manuscript.

2.2 Electronic Submission

2.2.1 Template Submission. Authors are strongly encouraged to use the template for manuscript preparation, available at www.thieme-chemistry.com/en/products/journals/synthesis/for-authors.html. The template offers the user many features that ease manuscript preparation and submission; all graphics and tables can be integrated into the manuscript where the author wishes to place them, and the print view of the manuscript will come close to the final layout of the printed manuscript.

2.2.2 Non-Template Submission. 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 should be integrated into one file.

Regardless of the preparation mode, authors are encouraged to **save their manuscript in PDF format**, as this ensures that the integrity of the file is maintained. If this is not possible the manuscript may also be saved in RTF format. Adobe Acrobat (full version) is required to convert files into PDF format. In addition, there are a number of free PDF writers available on the internet, the links to which can be found on the SYNTHESIS Web site. The original Word file and accompanying graphic files should be submitted in addition to the PDF file of the manuscript.

2.3 Hardcopy Submission

Manuscripts should be submitted on CD, DVD or disk, along with three hard copies of the manuscript that are identical to the electronic copy.

2.4 Manuscript Preparation

2.4.1 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. The editorial office uses ACD/IUPAC Name Pro (www.acdlabs.com) to generate IUPAC names. 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-chemistry.com/en/products/journals/synthesis/for-authors.html). **SI Units** should be used. The preferred unit of pressure is mbar.

2.4.2 Graphic Abstracts. A drawing, representing a visual summary of the work performed, must be provided [maximum dimensions 12 × 4 cm (4.7 × 1.6 in.), using the same settings as required for all other drawings]. The graphic abstract, which appears in the Table of Contents, 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, reaction time, etc.) should be included. The graphic abstract does not replace the written abstract. Samples are available for download from www.thieme-chemistry.com/en/products/journals/synthesis/for-authors.html.

2.4.3 The title (maximum 200 characters, including spaces), appearing at the top of page one, should reflect the contents of the manuscript. A short title should be provided for the header (maximum 65 characters, including spaces). 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 fax number and e-mail address for correspondence. 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.

Reviews and Feature Articles should be submitted with biographical sketches and photos of all authors.

2.4.4 All articles must contain a written **abstract**, which should summarize the results and conclusions of the research performed without using compound numbers. **Five key words** should be chosen with reference to our key word list (see www.thieme-chemistry.com/en/products/journals/synthesis/for-authors.html) and should appear below the abstract.

2.4.5 Formula schemes, figures, and artwork should be supplied in **electronic** form and must be consistent with the requirements summarized in the table on the previous page. Every graphic file requires a unique title 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 are reproduced at no cost to the author, provided color adds significantly to the scientific understanding of the paper. All inquiries should be directed to the editorial office.

2.4.6 Tables must be created in Word format and must have a title. Designate footnotes as superscript a, b, c, etc.

TECHNICAL DETAILS FOR SUBMISSION

Best way

Prepare the manuscript in Word, with graphics and tables integrated into the text, using the manuscript template available at www.thieme-chemistry.com. Save the entire manuscript as a PDF file.

Send the PDF file by e-mail to the appropriate Regional Editor. Keep the original Word and graphic files for revisions and for final submission after acceptance.

• Transfer of files

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Should contain the following information

- Name of corresponding author, manuscript number, and date
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We accept only

- PDF files (strongly recommended for the refereeing process)
- Word files (Mac or PC, necessary for manuscript processing)
- RTF files (strongly recommended for manuscript processing)

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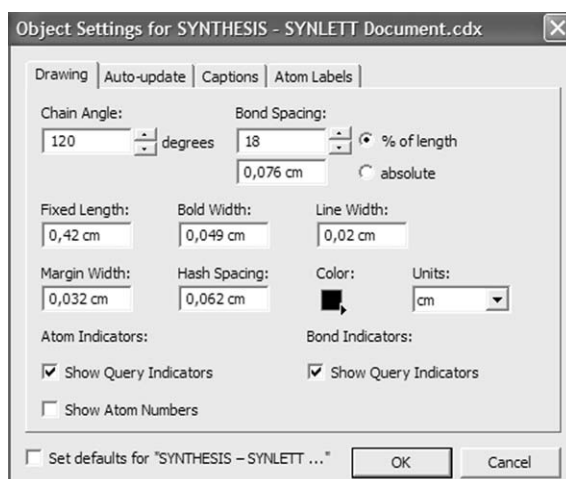
- Please do not use footnotes or endnotes.
- Subscripts and superscripts should be made in the standard way and not by reducing the point size.
- References should have only one space after the number, do not use tabs.
- Please assign where figures, schemes and tables should be placed and cite them in the text.
- Captions for graphic files should be given as part of the manuscript text, not as text within the graphic.
- Avoid underlinings and indentations.

• Tables*

- Tables must be created in Word format.
- Please use table formatting.
- Each item (paragraph, graphic, etc.) should be placed in its own cell.

• Graphic files*

ChemDraw files are preferred (see settings):



If you use the pre-installed ChemDraw settings (File – Apply Document Settings from – SYNTHESIS, SYNLETT Document), the images must be scaled down to 70% (either by the author or in the editorial office) to reach the correct final sizes: 8.5 cm (3.4 in.) for 1-column width and 17.5 cm (6.8 in.) for 2-column width, respectively.

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

Do not forget the Graphic Abstract!

Captions must be placed in the text file, not in the graphic file!

• Photos

We accept only

- JPG files, TIF files (not less than 300 dpi)
- original copies (high quality)

The Editorial Office would be happy to offer advice concerning all technical aspects of manuscript submission. Please contact:

thomas.loop@thieme.de or
thorsten.schoen@thieme.de

* **Template users: Please also refer to the instructions contained therein!**

2.4.7 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 including the weight, mmol, volume, etc. in brackets after the names of the substances or solvent, for example:

... To a solution of (1*S*)-(+)-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. In the text 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 can 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).

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.

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. 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.

Supporting Information should be included on separate sheets at the end of the manuscript or as a separate PDF file. These are used in the reviewing process and will be published online upon request.

Primary experimental data 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 submitted together with the other article 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 has to be prepared, describing the software which allows processing the data, as well as giving the structures and corresponding compound numbers for all provided data sets (see also www.thieme-chemistry.com/en/products/journals/synthesis/for-authors.html). 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. Submission of primary experimental data is optional.

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.

2.4.8 Acknowledgments should be brief and placed after the experimental section.

2.4.9 References should be placed collectively after the Acknowledgment and numbered consecutively. Authors are encouraged to list all relevant references and cite extensively. 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). If reference is made to a patent or a less readily available journal, the Chemical Abstracts reference should also be cited. Please do not use tabs.

Examples of References

- (1) New address: P. J. Kocienski, School of Chemistry, University of Leeds, Leeds LS2 9JT, UK.
- (2) Kiehne, U.; Bunzen, J.; Staats, H.; Lützen, A. *Synthesis* **2007**, 1061.
- (3) (a) List, B. *Synlett* **2001**, 1675. (b) List, B.; Castello, C. *Synlett* **2001**, 1687.
- (4) Meyers, A. I.; Flanagan, M. E. *Org. Synth. Coll. Vol. IX*; John Wiley & Sons: London, **1998**, 258.
- (5) Corey, E. J.; Cheng, X. M. *The Logic of Chemical Synthesis*; Wiley: New York, **1989**.
- (6) Reissig, H.-U.; Zimmer, R. In *Science of Synthesis*, Vol. 33; Molander, G.-A., Ed.; Thieme: Stuttgart, **2006**, 371.
- (7) Kolotilo, N. V.; Sinitisa, A. A.; Rassukana, Yu. V.; Onys'ko, P. P. *Zh. Obshch. Khim.* **2006**, 76, 1260; *Chem. Abstr.* **2006**, 146, 316980.
- (8) Nakamura, H.; Yamamoto, H. PCT Int. Appl. WO 2005043630, **2005**; *Chem. Abstr.* **2005**, 142, 440277.

3 Manuscript Submission

3.1 Reviews should be sent to the Editor in Chief.

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3.2 Short Papers, Papers and PSP Articles should be sent to the appropriate Regional Editor given below.

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3.3 Manuscript Submission Checklist

- Electronic submission **OR** computer disk with text, tables, schemes and figures, along with three hard copies
- Graphic abstract and 5 key words
- Statement of significance of work
- Full mailing address, telephone and fax numbers, and e-mail address of the corresponding author
- Biographical sketch and photo (Reviews and Feature Articles only)

Please consult the checklist before submission of your manuscript.

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3.7 Authors receive electronic **reprints** in PDF format accompanied with one copy of the issue OR 25 hard copy reprints free of charge (50 for authors of Reviews and Feature Articles). These will be sent after print publication of the journal issue.

3.8 Correspondence concerning accepted manuscripts and galley proofs should be directed to:

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