

1. General Information

ChemPhysChem is a European Journal of Chemical Physics and Physical Chemistry; it is currently co-owned and supported by a number of European chemical societies (the French SFC, German GDCh, Belgian SRC and KVCV, Czech ČSCh, Hungarian MKE, Portuguese SPQ, and Greek EEX) and published by WILEY-VCH. Contributions in **ChemPhysChem** cover experimental and theoretical research at the interface of chemistry and physics that deals, in the widest sense, with the application of chemical methods to physical problems or using the tools of physics to solve problems in chemistry and biology. **ChemPhysChem** publishes predominantly original Communications and few full-length Articles, as well as Reviews, Minireviews, Highlights, Concepts, and Book and Conference Reviews. The latter categories are generally written upon invitation; unsolicited manuscripts, however, are welcome as long as they fit into the scope of the journal.

With the exception of Book Reviews and news-type submissions, all manuscripts will be peer reviewed. Authors of original contributions or unsolicited reviews are requested to supply a short text justifying why the manuscript should appear in **ChemPhysChem** and to inform the editor of other submitted or in-press papers (preprints requested) that have a bearing upon the manuscript under consideration. All contributions will be judged on the basis of originality, quality, and novelty. Authors are expected to make their manuscripts suitable for a heterogeneous readership of physicists and chemists.

Authors must inform the Editor of manuscripts submitted, to be submitted, or in press at other journals which have bearing on the manuscript under consideration for **ChemPhysChem**.

Authors submitting a manuscript to **ChemPhysChem** for the first time are asked to characterize their research interests with a maximum of five keywords found on our homepage.

If a manuscript is rejected, all original material will be returned to the correspondence author. However, if a manuscript is accepted for publication, graphical materials and electronic storage media will be returned only on request. Accepted manuscripts will be edited with a view to brevity and clarity. The correspondence author will receive a free high-quality reprint PDF of the manuscript, restricted to 25 copies, free of charge.

1.1. Queries

All queries regarding manuscript preparation, submission or status should be sent by email to chemphyschem@wiley-vch.de, faxed to +49 (0)6201-606-331, or call directly either to +49 (0)6201-606-200 or +49 (0)6201-606-319.

2. Types of Contributions

2.1. Communications and Articles

Communications and **Articles** present results of experimental or theoretical studies of general interest or great importance to the development of a specific area of research. A short text justifying why the manuscript should appear in **ChemPhysChem** should be

submitted. The quality of original research contributions is usually assessed by two independent referees. Detailed information that could be of importance to the referees, but that is unlikely to be of interest to the reader, can be submitted as an enclosure or — clearly marked — as **Supporting Information**. Only manuscripts that have already been published in a scientific journal should be cited; the citation should be fair and informative but not excessive. Copies of cited publications not yet available publicly should be submitted along with the manuscript.

Inclusive of all References, footnotes, and Tables, a **Communication** should be no longer than six manuscript pages (about 10 000 characters); graphical materials (Formulas, Figures, and Schemes) may also be added. Longer Communications will be accepted only if their quality warrants consideration and a written justification of their length is provided. Communications should not be divided into sections. However, experimental details can be summarized under the heading “Experimental Section” or “Computational Methods”. The first paragraph of a Communication should give an introduction to enable readers less familiar with the subject to gain a feeling for the state of the art and for the importance of the results presented. In the final paragraph the results should be summarized succinctly, and one sentence should be devoted to their significance and — if appropriate — to remaining challenges.

Articles have no length restrictions; however, space should be used economically. **ChemPhysChem** will not publish Articles that consist mainly of results reported in previous Communications with an added experimental section. Articles should include an Abstract and an Introduction.

2.2. Reviews and Minireviews

Reviews deal with topics of current interest in any of the areas covered by **ChemPhysChem**. Rather than an assemblage of information with a complete literature survey, a critically selected treatment of the material is desired; unsolved problems and possible developments should also be discussed. Reviews should be divided into numbered sections and cross-referencing in the text should refer to these section numbers. The Review starts with an Abstract. This text should not be a mere summary but rather should arouse the reader's interest. The Introduction should primarily introduce the nonspecialist to the subject in a clear way as possible. A Review should conclude with Summary and Outlook, in which the achievements of and new challenges for the subject are presented succinctly. In addition, a Biographical Sketch and photographs of all the authors, as well as a suggestion for a full-page picture (“frontispiece”) to face the first page, should be submitted.

A Review should consist of a maximum of 40 pages (approximately 65 000 characters) of main text, footnotes, literature citations, Tables, and Legends. Graphical materials, in a number appropriate to the text and topic, should be submitted on separate sheets.

A **Minireview** should, in a maximum of 15 manuscript pages (approximately 25 000 characters), present current topics in a concise review style. Minireviews offer the flexibility to treat topics at a time, and in a suitable manner, when a Review would still be premature or inappropriate. The content should balance

scope with depth, and reference to important work from others which is significant to the topic should be included. The results should be clearly presented without all the data necessary for an original publication. The format is the same as that outlined for Reviews, however Minireviews do not have a Frontispiece or Abstract and the authors are not introduced with a short biography.

2.3. Highlights and Concepts

Highlights present critical assessments of very important new results; they are, in general, written by a third person. The results should be presented clearly but as succinctly as possible, without the comprehensive details required for an original article. Highlights may be organized as the author wishes but should not be more than five manuscript pages (approximately 8500 characters) in length. Formulas, Figures, and Schemes should be restricted to important examples, and the number of references kept to a minimum.

Concepts are short articles emphasizing the general concepts that have guided important developments in a specific area and their implications for future research. The reference section should include the key papers that have contributed to conceptual advances in the field under review, rather than being fully comprehensive. The authors, while presenting their own research, should aim to provide the nonspecialist reader with a useful guide and the expert with a new angle on a familiar problem. Concept articles may be organized as the author wishes, but should include a short Abstract (approximately 600 characters) that succinctly describes the concepts under discussion. Articles should consist of around ten pages of text (approximately 17 000 characters) including References, Tables, and Legends. The liberal use of Figures and Schemes is encouraged.

2.4. Book Reviews

Reviews of books are written on invitation. Suggestions for books to be reviewed and for reviewers are welcome. Publishers should send brochures or (better) books directly to the Editorial Office. Unsolicited books will not be returned.

2.5. Conference Reports and Correspondence

Reports on recent events and comments on publications in **ChemPhysChem** or on topics of high current interest are welcome if they contribute to the scientific discussion.

3. Manuscript Preparation

We can process your manuscript faster if you lay it out as described below.

3.1. General

The manuscript should be double spaced and in a large, nonproportional script (recommended *Courier*, 12 pt). We prefer text prepared with Microsoft Word (PC or Macintosh versions) or L^AT_EX. If possible, the standard Symbol font should be used to create Greek letters, rather than special characters or graphics embedded in the text. We can only use standard L^AT_EX formats (`\documentclass{article}` or RevTeX); please **do not** include your own style files or macros.

The Figures, Schemes, and Graphical Abstract should be camera-ready; a current issue of the journal gives overviews of the format. A manuscript comprises: Title Page • Abstract/Lead-In • Keywords • Introduction • Results and Discussion • Experimental Section/Computational Methods • Acknowledgements (optional) • Legends • References • Tables • Schemes and Figures • Table of Contents • Biographical sketch and a portrait-quality black-and-white photograph. Some types of contributions, see below, will not require all of these items.

The whole manuscript should be in either British or American English. Please be considerate to our many readers, for whom English is a foreign language, and use a simple, clear, and jargon-free style. For any complex or unusual notation, a clarification nearby is recommended. Abbreviations and acronyms should be used sparingly and consistently.

3.1. Manuscript Components

Title Page: Series title and number, if applicable; title; authors names with academic titles, alphabetical footnotes (^[a], ^[b], ...) referring to addresses, and an asterisk to denote the correspondence author; dedication if applicable; footnotes containing affiliations of all the authors including the full postal address, fax number, and e-mail address of the correspondence author; footnote referring to the previous paper in the series, if applicable.

Abstract: Required only for Articles (650–1500 characters), Concepts (600 characters), or for a Review (1500–2000 characters). For the latter, it should be entitled **Lead-In** and, rather than a mere summary, should arouse the reader's interest. Abstracts should not be too technical.

Keywords: Up to five should be given. To aid online searching, at least two should come from the basic keyword list available from our homepage.

Introduction: For Reviews and Minireviews only, this should introduce the topic to the nonspecialist. An introduction should include the relevant references. For Reviews a Frontispiece, a full-page picture facing the first page to entice the reader, is requested.

Results and Discussion: Articles need this section, which may be divided further with subheadings; in Communications it should not to be so subdivided.

Since Reviews, Minireviews, Highlights, and Concepts present no new results as such, the body of the text should be divided into numbered Sections. For Reviews and Minireviews, the first such Section is the

Introduction (see above) and the last is entitled Summary and Outlook.

Experimental Section and/or **Computational Methods:** For Communications and Articles only, they should provide enough detail to allow others to repeat the work.

Insofar as practical, authors should use systematic nomenclature (as suggested by the International Union of Pure and Applied Chemistry (IUPAC), International Union of Pure and Applied Physics (IUPAP), or Chemical Abstracts) for each compound or technique in the Experimental Section. Please do not use computer programs to generate elaborate systematic names, nor use long multi-line compound names; for the sake of clarity general descriptors such as compound **2**, dendrimer **3**, or alcohol **4** should be used.

Equipment and conditions used for the measurement of physical data used should be described at the beginning of the Experimental Section. Quantities of reactants, solvents, and so forth should be included in parentheses rather than in the running text (e.g. methyl iodide (0.964 g, 2.5 mmol) in toluene (20 mL)). Physical data, using SI units whenever possible, should be quoted with decimal points and negative exponents (e.g. $25.8 \text{ J K}^{-1} \text{ mol}^{-1}$).

In theoretical papers, technical details should be confined to a Computational Methods section.

Acknowledgements: As brief as possible and placed before the References.

References: To appear in the text body in square brackets, superscripted, and after any punctuation. In the collated reference list, which appears at the end of the manuscript and not as footnotes, the names of all authors (not "et al.") should be typed in upper- and lowercase letters starting with initials of forenames, then surnames; the penultimate and last names should be separated only by a comma (not by "and"); only a comma is required between the name of the last author and the title of the journal. Where appropriate, composite references may be used, separated by a), b), c), and so forth. Journal titles should be abbreviated according to the Chemical Abstracts Service Source List (CASSI). When citing publications from *Angewandte Chemie* please quote both German and International Editions. Where possible, composite references should be used and separated by a), b), c). Please follow the examples below (the use of page ranges is optional but should be consistent throughout).

Journals: [1] a) O. Indris, W. Stahl, *J. Phys. Chem. A* **1999**, *103*, 11 310–11 314; b) M. Clemente-León, H. Soyer, E. Coronado, C. Mingotaud, C. J. Gómez-García, P. Delhaès, *Angew. Chem.* **1998**, *110*, 3053–3056; *Angew. Chem. Int. Ed.* **1998**, *37*, 2842–2845. [2] a) W. D. Wagner, *Ann. N.Y. Acad. Sci.* **1985**, *454*, 52–68, and references therein; b) J. C. Wang, *Sci. Am.* **1982**, *247*(1), 94–97.

Books: Without editor: [3] J. M. Thomas, W. J. Thomas, *Principles and Practice of Heterogeneous Catalysis*, VCH, Weinheim, **1996**, p. 213. With editor: [4] T. D. Tullius in *Comprehensive Supramolecular Chemistry*, Vol. 5 (Eds.: J. L. Atwood, J. E. D. Davies, D. D. MacNicol, F. Vögtle, K. S. Suslick), Pergamon, Oxford, **1996**, pp. 317–343.

Miscellaneous: [5] a) C. R. A. Botta (Bayer AG), DE-B 2235093, **1973** [*Chem. Abstr.* **1974**, *80*, 55 356c]; b) A.

Student, PhD thesis, University of Newcastle (UK), **1991**.

Legends: Must be included for each Figure and Scheme (see below), which are listed together after the References. Each Figure and Scheme should have a Legend; these should be listed together at the end of the reference section of the text file rather than being included with the drawings in the graphics files.

Tables must have a brief Legend, and footnotes for Tables are denoted [a], [b], and so forth. must have a brief title and should only be subdivided by three horizontal lines (head rule, neck rule, foot rule).

Figures, Schemes, and Tables should be numbered according to the order in which they appear in the manuscript and referred to in full (Figure 5, Table 3) in the text.

Graphical Materials: Figures, Schemes, and Formulas should be submitted on separate sheets and, ideally, electronically. If these materials are not camera-ready, requested corrections will be returned on acceptance of the manuscript. They should, if possible, be designed for reduction to a one-column format (8.5 cm wide). The maximum width is the two-column format (17.5 cm wide). For optimum reproduction, illustrations should be larger than the desired final size. We recommend: font for script, Helvetica; size of lettering, 3–3.5 mm; total maximum width, 14 cm (or 28 cm for two-column width) for 60 % reduction. Good prints should be submitted for the referees and editors; for reproduction, originals should be provided as slides or on disk.

Not all graphics programs are suitable for use by our printers, so please check the guidelines for generating graphics suitable for electronic reproduction, which can be found on our homepage.

Italicize symbols of physical quantities, but not their units (e.g. *T* for temperature, in contrast to T for the unit Tesla, but K as unit), stereochemical information (*cis*, *Z*, *R*, etc.), locants (*N*-methyl, but α -amino), and symmetry designations (C_{2v}). Chemical formulas should be numbered with boldface Arabic numerals (e.g., **1**). Labels of axes are to be separated from their units by a slash (e.g., *T/K*). A minus sign must be as long as the crossbar of a plus sign.

Essential Color Figures: Will be reproduced free of charge; in all other cases part of the additional cost for the reproduction must be paid for by the author. We encourage authors to submit pictures and associated text for the **cover page**.

Table of Contents: Text and an associated graphical item should be included. These items should tempt browsers to read the paper and need not summarize the paper in its entirety; repetition or paraphrasing the title would be a wasted opportunity.

Biographical Sketch(es): For Reviews, they should be of up to 750 characters, a portrait-quality photograph of each author is requested.

Supporting Information: Include details of interest to referees or specialist readers; it will be published only on the WWW. The author must keep a copy to make available to readers who do not have access to the WWW. This material undergoes the peer review process and must therefore be included with the original submission. Succinct text and the necessary graphics should then be sent as a single document with the

revised version on a separate disk marked "Supporting Information for" + manuscript number + correspondence author name. In this case only, graphics should be present as imports in the file and not as separate files to which the document refers. Color and animated multimedia applications are welcome for Supporting Information.

4. Submission

Manuscripts are preferably sent by through our Online Submission of Manuscripts (OSM) service, found on our home page. For manuscripts that contain color figures and for review articles, we recommend electronic submissions should be followed up with at least one original copy by mail. Our contact addresses are:

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4.1. Initial Submission: OSM

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Do keep copies of the graphical materials in their original format; these will be required upon acceptance of your manuscript for production purposes.

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Manuscripts sent by regular mail or as email attachments may be subject to slight handling delays. For mailed manuscripts, please send four copies. We prefer textual materials in the Microsoft Word (95 or 97), Adobe PDF, or LaTeX formats; for the latter please use only common formats (`\documentclass{article}` or the APS's RevTeX format) and avoid customized style sheets. Please ensure each page is numbered. For graphical materials, we prefer any of the common formats (TIF, EPS, PDF).
