



# ANALYTICA CHIMICA ACTA

An International Journal Devoted to All Branches of Analytical Chemistry

## AUTHOR INFORMATION PACK

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### DESCRIPTION

*Analytica Chimica Acta* has an open access mirror journal [Analytica Chimica Acta: X](#), sharing the same aims and scope, editorial team, submission system and rigorous peer review. *Analytica Chimica Acta* provides a forum for the rapid publication of original research, and critical, comprehensive reviews dealing with all aspects of fundamental and applied modern **analytical chemistry**. The journal welcomes the submission of research papers which report studies concerning the development of new and significant analytical methodologies. In determining the suitability of submitted articles for publication, particular scrutiny will be placed on the degree of novelty and impact of the research and the extent to which it adds to the existing body of knowledge in analytical chemistry.

Manuscripts detailing fundamental research on all aspects of analytical chemistry theory and methodology (including **chemometric** techniques), such as innovative instrumental, chemical and biological approaches, detectors and sensors, sample treatment methods and data treatment that truly demonstrate new principles and/or important applications are especially encouraged. *Analytica Chimica Acta* focuses on fundamental new developments in analytical chemistry in general and discourages specialized application oriented submissions that are of interest to a limited number of readers. Papers describing the direct use of routine **analytical methodologies** or their straightforward/incremental extension of these methods to new sample matrices will normally be rejected unless new and important developments are described which can be demonstrated to give obvious and quantifiable advantages over existing approaches. In all submissions to the journal, authors must address the question of how their proposed methodology compares with those previously reported for the analytes in question even if they employed different techniques. The journal does not focus on application papers, especially those that are straightforward utilizations of commercial instrumentation or other existing techniques, regardless of how complex and expensive they may be. If submitted, application papers must clearly demonstrate a high level of general importance and interest to the analytical chemistry community at large.

It will normally be expected that where new analytical methodologies and developments are described these will be applied to a sample matrix of suitable analytical complexity. In such cases appropriate validation of the method must be provided, together with proper statistical treatment of data. Analytical performance characteristics of new methodologies must be given, including calibration, sensitivity, detection limits, accuracy, precision, and interferences. They must also clearly demonstrate substantial superiority in some important respect over existing alternatives.

Reviews are normally written by prior agreement of the [reviews editors](#). Potential authors are encouraged to discuss the subject matter of a proposed review with the review editor, and will be

asked to provide a brief outline of the subject matter of the proposed review. Review articles should be sufficiently broad in scope to appeal to a wide cross-section of the journal's readership, but should be specific enough to permit discussion to be made at an appropriate depth. Basic methodology and principles should not be included in reviews, but suitable reference should be made to sources of this information. Above all, reviews should be critical rather than enumerative and should provide the reader with expert opinion regarding the relative merits of the various published approaches to the topic under review. Figures and Tables are encouraged in review articles. Tutorials describing the fundamental principles and practical operational details of a given analytical technique, sample processing approach or chemometric method are also welcome.

Manuscripts are considered for publication in *Analytica Chimica Acta* only on the basis that the work is original and unpublished. The editors and publisher are fundamentally opposed to any form of duplication and plagiarism and if discovered, not only will the manuscript be immediately rejected, the corresponding author(s) could be banned from future submissions to any Elsevier journal. Depending on the severity of the offense, the incident may also be reported to the responsible authorities at the corresponding author's institution(s).

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## ABSTRACTING AND INDEXING

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## GUIDE FOR AUTHORS

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### INTRODUCTION

*Analytica Chimica Acta* has an open access mirror journal, *Analytica Chimica Acta X*.

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#### **Types of paper**

*Analytica Chimica Acta* publishes original papers, and reviews dealing with every aspect of contemporary analytical chemistry. Short papers will also be considered for publication but they must be a brief account (two to four journal pages) of either innovative instrumentation or a new technique. It is incumbent upon the authors to effectively describe the significant advancement that the proposed novel approach brings to analytical chemistry in comparison to those currently in use.

Reviews are normally written with the prior agreement of the review editor. Potential authors are required to discuss the proposed topic with the review editor and will be asked to provide a concise outline of the subject matter to be covered. Review articles must be sufficiently broad in scope to appeal to a wide cross-section of the journal's readership, but should be specific enough to permit

discussion to be made at an appropriate depth. Basic methodology and principles should not be included in reviews, but suitable references should be made to sources of this information. Above all, reviews must be critical and comprehensive rather than an exhaustive list of published works on the proposed topic. Consequently, reviews must provide the reader with expert opinion regarding the relative merits of the various published works on the particular topic. Figures and Tables are encouraged in review articles. Tutorials describing the fundamental principles and practical operational details of a given analytical technique, sample processing approach or chemometric method are also welcome.

Note: *Analytica Chimica Acta* does not distinguish between papers submitted individually or *via* a symposium. Consequently symposium papers are subject to the same stringent refereeing procedures as other papers.

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You can use this list to carry out a final check of your submission before you send it to the journal for review. Please check the relevant section in this Guide for Authors for more details.

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This journal operates a single blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. [More information on types of peer review.](#)

### *Use of word processing software*

It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor's options to justify text or to hyphenate words. However, do use bold face, italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the [Guide to Publishing with Elsevier](#)). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.

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### **Article structure**

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Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

#### *Introduction*

State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

### **Materials and methods**

The experimental methods should be described after the introductory material. Detailed experimental descriptions should be restricted to one section of the paper. Sufficient detail should be given to allow any experienced worker to implement the procedures described. Procedural steps should not be numbered.

#### *Results*

Results should be clear and concise.

#### *Discussion*

This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

### **Conclusions**

This should include key findings of the research, quantitative analytical performance figures (if appropriate) and their significance to real sample matrices.

#### *Appendices*

If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

### **Essential title page information at the beginning of the manuscript file.**

- **Article title.** Concise and informative. Titles are often used in information-retrieval systems. No abbreviations should be used and avoid formulae where possible.
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Do not use abbreviations in the title or keywords. Define abbreviations that are not standard in this field at their first occurrence in both the abstract and the main text. Ensure consistency of abbreviations throughout the remainder of the manuscript.

In all other cases, the recommendations of the International Union of Pure and Applied Chemistry (IUPAC) should be followed, and attention should be given to the recommendations of the Analytical Chemistry Division in the journal *Pure and Applied Chemistry* (see also IUPAC Compendium of Analytical Nomenclature, Definitive Rules, 1987).

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Please submit math equations as editable text and not as images. Present simple formulae in line with normal text where possible and use the solidus (/) instead of a horizontal line for small fractional terms, e.g., X/Y. In principle, variables are to be presented in italics. Powers of e are often more conveniently denoted by exp. Number consecutively any equations that have to be displayed separately from the text (if referred to explicitly in the text).

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[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, The art of writing a scientific article, *J. Sci. Commun.* 163 (2010) 51-59.

Reference to a book:

[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281-304.

[4] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <http://dx.doi.org/10.17632/xwj98nb39r.1>.

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