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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.

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INTRODUCTION

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

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