TALANTA
The International Journal of Pure and Applied Analytical Chemistry

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DESCRIPTION

*Talanta* provides a forum for the publication of original research papers, short communications, and critical reviews in all branches of pure and applied *analytical chemistry*. Papers are evaluated based on established guidelines, including the fundamental nature of the study, scientific novelty, substantial improvement or advantage over existing technology or methods, and demonstrated analytical applicability. Original research papers on fundamental studies, and on novel sensor and instrumentation developments, are encouraged. Novel or improved applications in areas such as clinical and biological chemistry, environmental analysis, geochemistry, materials science and engineering, and analytical platforms for omics development are welcome.

Analytical performance of methods should be determined, including interference and matrix effects, and methods should be validated by comparison with a standard method, or analysis of a certified reference material. Simple spiking recoveries may not be sufficient. The developed method should especially comprise information on selectivity, sensitivity, detection limits, accuracy, and reliability. However, *applying official validation or robustness studies to a routine method or technique does not necessarily constitute novelty*. Proper statistical treatment of the data should be provided. Relevant literature should be cited, including related publications by the authors, and authors should discuss how their proposed methodology compares with previously reported methods.

The name Talanta derives from the Greek word, used by Homer to mean a *pair of scales*. Such a balance was used for measuring talents or gold coins. See *Talanta*, 35(5)(1988)I-V for details. The symbol for the journal is a Greek balance taken from one of the Hope Vases.

talantaimage.jpg

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Analytical Chemists.

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INTRODUCTION

*Talanta* provides a forum for the publication of original research papers, short communications, and critical reviews in all branches of pure and applied analytical chemistry

**TYPES OF PAPERS:**

**Full Papers**

Papers are evaluated based on established guidelines, including the fundamental nature of the study, scientific novelty, substantial improvement or advantage over existing technology or methods, and demonstrated analytical applicability. Original research papers on fundamental studies, and on novel sensor and instrumentation developments, are encouraged. Novel or improved applications in areas such as clinical and biological chemistry, environmental analysis, geochemistry, materials science and engineering, and analytical platforms for omics development are welcome.

**Short Communications**

Short communications comprise more abbreviated studies that demonstrate new concepts and applicability.

**Rapid Communications**

Brief or preliminary communications that outline exciting and innovative developments, with proof of concept, and which offer potentially significant advances in analytical science are highly encouraged. Papers should be of no more than four printed pages in length, including references, and contain no more than two figures and one table. Priority will be given to making faster decisions for such submissions than is the case for normal manuscripts.

**CRITERIA:**

Analytical performance of methods should be determined, including interference and matrix effects, and methods should be validated by comparison with a standard method, or analysis of a certified reference material. Simple spiking recoveries may not be sufficient. The developed method should especially comprise information on selectivity, sensitivity, detection limits, accuracy, and reliability. However, applying official validation or robustness studies to a routine method or technique does not necessarily constitute novelty. Proper statistical treatment of the data should be provided. Relevant literature should be cited, including related publications by the authors, and authors should discuss how their proposed methodology compares with previously reported methods.

**ESTABLISHED METHODS:**

Since classical spectrophotometric measurements and applications (including derivative spectrophotometry), fluorimetry, solvent extraction, titrimetry, chemometrics, etc. are well established and are considered routine analytical methods, studies in such areas should demonstrate a unique and substantial advantage over presently known systems. Standard chemometrics for optimization is not novel, but solving a problem or analyzing data may be appropriate. New reagents or systems should demonstrate clear advantage, and their presentation should be comprehensive rather than generating a series of similar papers for several analytes or similar reagents. Modifications of reagents should demonstrate significant improvements. Obvious application of known chemistries or methods to established instrumental techniques are discouraged.

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AUTHOR INFORMATION PACK 30 Apr 2019 www.elsevier.com/locate/talanta
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