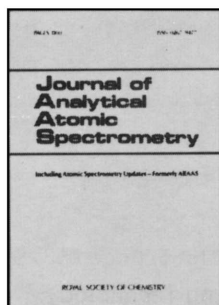


# Analytical Chemistry Journals

## from The Royal Society of Chemistry

### Journal of Analytical Atomic Spectrometry (JAAS)



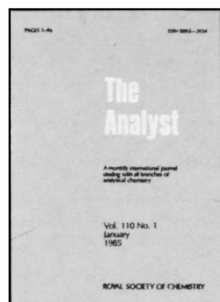
An International Journal on the Development and Application of Atomic Spectrometric Techniques

*Journal of Analytical Atomic Spectrometry (JAAS)* is a new international journal, launched in February 1986, which contains original research papers, short papers, communications and letters concerned with the development and analytical application of atomic spectrometric techniques. *JAAS* is published bimonthly and includes comprehensive reviews on specific topics, general information and news of interest to analytical atomic spectroscopists, including information on forthcoming conferences and book reviews. Special issues of *JAAS* will be published, devoted to subjects highlighted by particular symposia. Also included in *JAAS* are the literature reviews previously covered in *Annual Reports on Analytical Atomic Spectroscopy*.

*JAAS* has a style and format similar to that of the well-established journal *The Analyst*. *JAAS* provides an improved publication service to support the growing research efforts in, and applications of, atomic spectrometric techniques.

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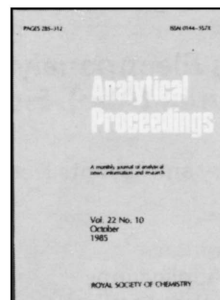
### The Analyst



An international journal of high repute containing original research papers on the theory and practice of all aspects of analytical chemistry drawn from a wide range of sources. It also publishes regular critical reviews of important techniques and their applications, short papers and urgent communications (which are published in 5-8 weeks) on important new work, and book reviews.

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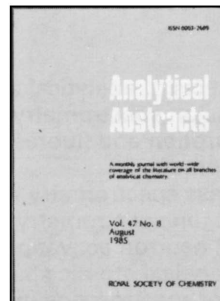
### Analytical Proceedings



*Analytical Proceedings* is the news and information journal of the Analytical Division. It contains special articles, reports of meetings, extended summaries or original papers, safety articles, details of recent legislation, surveys of equipment, and many other items of general interest to analytical chemists both in Britain and overseas.

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**X Conference on Analytical Atomic Spectrometry (CANES)  
VII Polish Spectroanalytical Conference  
5–9 September 1988, Toruń, Poland**

This conference, to be held at the Nicholas Copernicus University in Toruń, Poland, will cover the following branches of spectroscopy:

Physical aspects of analytical atomic spectrometry  
Optical emission spectrometry and excitation sources  
Atomic absorption and fluorescence spectrometry  
X-ray spectrometry  
Inorganic mass spectrometry  
Electron and ion spectrometry  
Instrumental neutron activation analysis  
Lasers in analytical atomic spectrometry  
Application of spectroscopy in trace analysis  
Speciation analysis  
Surface analysis

Further information can be obtained from Dr. J. Fijałkowski, Institute of Nuclear Chemistry and Technology, ul. Dorodna 16, 03–195 Warsaw, Poland.

**ElectroFinnAnalysis**

**International Conference on Electroanalytical Chemistry  
6–9 June 1988, Turku (Åbo), Finland**

The scientific programme will consist of invited plenary and keynote lectures, submitted research papers and posters, divided into the following sessions:

Instrumentation  
Industrial Applications  
Pharmaceutical Applications  
Clinical Applications  
Electrochemical Sensors  
Electrochemical Flow Analysis

Speakers will include L. R. Faulkner (USA), J. J. Kankare (Finland), E. Pungor (Hungary), J. Asplund (Sweden), P. M. Bersier (Switzerland), W. F. Smyth (Northern Ireland), J. Reust (Switzerland), W. Simon (Switzerland), A. Lewenstam (Finland), J. Janata (USA), I. Lundström (Sweden), E. Hansen (Denmark) and M. Trojanowicz (Poland).

There will also be an exhibition of electroanalytical instruments and a comprehensive social programme.

*Call for Papers.* A 250-word abstract should be submitted before 31 December 1987 to the address below.

Further information and registration forms can be obtained from Dr. Ari Ivaska, Laboratory of Analytical Chemistry, Åbo Akademi, SF-20500 Turku (Åbo), Finland.

## Analytical Chemistry by Open Learning Electrophoresis



M. MELVIN, Robert Gordon's Institute of Technology, Aberdeen, Scotland

Emphasizes the practical aspects of electrophoresis and its applications in chemical analysis. Beginning with an introduction to the basic principles of the technique, a detailed discussion follows of the various systems used for the analysis, the support media, factors affecting the electrophoretic mobility and the methods used for the detection of the separated samples. Applications of immuno-electrophoresis and the two-dimensional techniques involving chromatography are also covered.

047191374X 152pp April 1987 (cloth) £28.00/\$52.40  
 0471913758 152pp April 1987 (paper) £9.95/\$18.65

## Instrumentation

G. CURRELL, Bristol Polytechnic, UK

Introduces the fundamental concepts common to many instruments. Amongst the subjects reviewed are the role of electricity in instruments, electrical measurements, Fourier transform and data handling components.

0471913685 418pp March 1987 (cloth) £36.00/\$67.35  
 0471913693 418pp March 1987 (paper) £13.75/\$25.75

## Classical Methods

### Part I

D. COOPER, North Staffordshire Polytechnic and C. DORAN, Wirral Metropolitan College, UK

This book takes chemical equilibria as the all-embracing feature which draws classical methodologies together and develops equilibrium concepts in their relation to treatment, measurement and end-point detection. For each of the major divisions of classical analysis a basic theoretical model is described and then developed through a description of the method in practice.

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 0471913634 396pp April 1987 (paper) £13.75/\$25.75

## Classical Methods

### Part II

J. MENDHAM, Thames Polytechnic, London, D. DODD, Sandwell College, Warley and D. COOPER, North Staffordshire Polytechnic, Stoke-on-Trent, UK

The study of classical methods of analysis contained in the first volume is continued and topics covered include precipitation, gravimetric analysis, precipitation titrations, Redox titrimetry, the roles of complexes in analytical chemistry and complexones.

0471913650 376pp July 1987 (cloth) £32.00/\$63.40  
 0471913642 376pp July 1987 (paper) £11.50/\$22.80

## Thermal Methods

J.W. DODD, Lancashire Polytechnic and K.H. TONGE, Robert Gordon's Institute of Technology, Aberdeen, UK

The basic principles of the common methods are explained and the effect of various experimental conditions is considered. The aim is to provide a sound enough background to enable the reader to tackle new situations with a high chance of success. Also included is a highly relevant case study concerning the practical use of thermal methods.

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## Clinical Specimens

D. HAWCROFT and T. HECTOR, Leicester Polytechnic, UK

Discusses the range of human specimens available, their roles, origins and specialised characteristics, and hence the reasons for our interest in them. Also covers the techniques used to obtain representative samples of these materials and the problems involved in sampling, transport, storage and analysing them.

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## Microprocessor Applications

### Part I

D. STEVENSON, Paisley College of Technology and K. MILLER, Wolverhampton Polytechnic, UK

Programming and interfacing are dealt with in general terms, making reference to more specialist books for more detailed information. Generic requirements for curve fitting and data smoothing are also covered, giving programs where appropriate. The inclusion of two case studies gives the reader an excellent opportunity for working through the applications.

0471914029 590pp June 1987 (cloth) £44.00/\$87.15  
 0471914037 590pp June 1987 (paper) £17.50/\$34.65

## Thin Layer Chromatography

R. HAMILTON and S. HAMILTON, Liverpool Polytechnic, UK

This volume is designed to enable the reader to judge when and how to use thin layer chromatography in preference to these other techniques. The basic principles of thin layer chromatography and its applications to commonly found classes of compounds are covered.

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## X-Ray Methods

C. WHISTON, Wolverhampton Polytechnic, UK

Relatively few analysts have regular working experience of X-ray diffraction and X-ray fluorescence techniques, and indeed many of the methods involved are more of an art than a science. An insight into basic theory, instrumentation and the applications and limitations of these types of analysis is provided. A variety of studies involving the use of actual X-ray data are included to give a working knowledge of the results which may be obtained.

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 0471913871 448pp May 1987 (paper) £13.75/\$23.45

## Diagnostic Enzymology

D. HAWCROFT, Leicester Polytechnic, UK

Describes the nature of enzymes, the techniques used for measuring enzyme activity and the problems associated with obtaining reproducible and meaningful results. The final section discusses the importance of enzyme assays in the diagnosis of human illness and the monitoring of treatment and recovery to put the methods and interpretation previously described into context. References are included so that the basic introduction supplied here can be extended by those interested in reading further.

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## Polarography and Other Voltammetric Methods

T. RILEY, Brighton Polytechnic and A. WATSON, Paisley College of Technology, UK

A wide range of voltammetric techniques are introduced providing sufficient information for an understanding of the basic theory. Practical aspects and the scope of each technique are explored using features they have in common, such as electrode and solution behaviour and electrical circuitry. Many examples of the electrochemical behaviour of individual compounds or classes of compounds are also included in the form of illustrations.

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