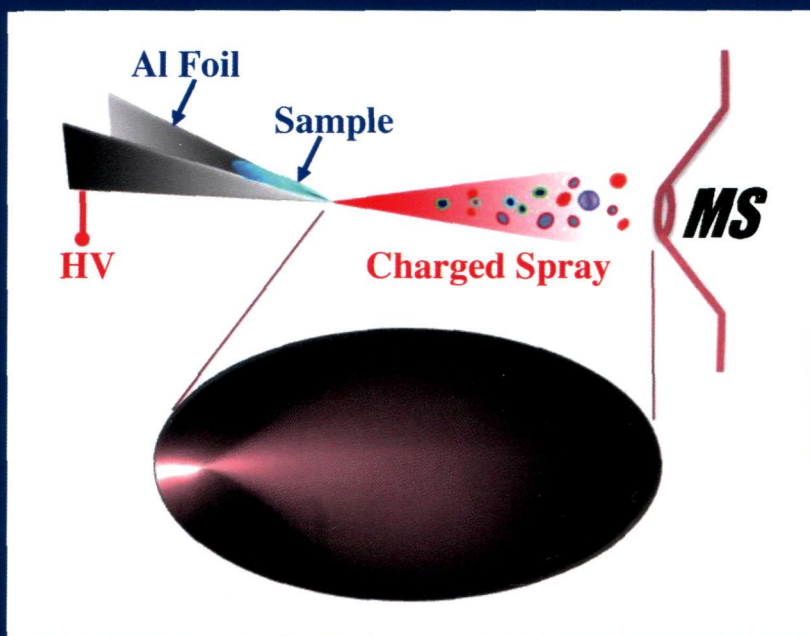




# ANALYTICA CHIMICA ACTA

AN INTERNATIONAL JOURNAL DEVOTED TO ALL BRANCHES OF ANALYTICAL CHEMISTRY



## EDITORS:

RICHARD P. BALDWIN  
NEIL W. BARNETT  
WOLFGANG BUCHBERGER  
LUTGARDE BUYDENS  
PURNENDU K. DASGUPTA  
ULRICH J. KRULL  
JAMES P. LANDERS  
LIANG LI  
JANUSZ PAWLISZYN  
PAUL J. WORSFOLD

## REVIEW EDITOR:

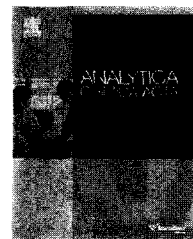
MANUEL MIRÓ

## Featured Article

Electrospray ionization with aluminum foil: A versatile massspectrometric technique

Bin Hu, Pui-Kin So and Zhong-Ping Yao

*(Published on pp. 1–8 of this issue)*



## CONTENTS

Abstracted/indexed in: Aluminium Abstracts; Anal. Abstr.; Biol. Abstr.; BIOSIS; Chem. Abstr.; Curr. Contents Phys. Chem. Earth Sci.; Engineered Materials Abstracts; Excerpta Medica; Index Med.; Life Sci.; Mass Spectrum. Bull.; Material Business Alerts; Metals Abstracts; Sci. Citation Index Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database available on STN International. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®.

### Featured article

- Electrospray ionization with aluminum foil: A versatile mass spectrometric technique  
B. Hu, P.-K. So and Z.-P. Yao ..... 1

### Chemometrics

- Probabilistic peak detection for first-order chromatographic data  
M. Lopatka, G. Vivó-Truyols and M.J. Sjerps ..... 9

### Electrochemistry

- A strategy for improving the sensitivity of molecularly imprinted electrochemical sensors based on catalytic copper deposition  
J. Li, Y. Shao, W. Yin and Y. Zhang ..... 17

### Extraction and Sample Handling

- A new interface for coupling solid phase microextraction with liquid chromatography  
Y. Chen and L.M. Sidisky ..... 23

### Microfluidic (Lab on a chip)

- Microfluidic enzyme-linked immunosorbent assay in a region of finite length  
N. Yanagisawa and D. Dutta ..... 28

### Sensors and Bioselective Reagents

- Extremely sensitive sandwich assay of kanamycin using surface-enhanced Raman scattering of 2-mercaptobenzothiazole labeled gold@silver nanoparticles  
A. Zengin, U. Tamer and T. Caykara ..... 33

- Label-free fluorescent biosensor based on the target recycling and Thioflavin T-induced quadruplex formation for short DNA species of c-erbB-2 detection  
J. Chen, J. Lin, X. Zhang, S. Cai, D. Wu, C. Li, S. Yang and J. Zhang ..... 42

### Separation Methods

- Correlations between the zeta potentials of silica hydride-based stationary phases, analyte retention behaviour and their ionic interaction descriptors  
C. Kulsing, Y. Yang, C. Munera, C. Tse, M.T. Matyska, J.J. Pesek, R.I. Boysen and M.T.W. Hearn ..... 48