

ANALYTICA CHIMICA ACTA

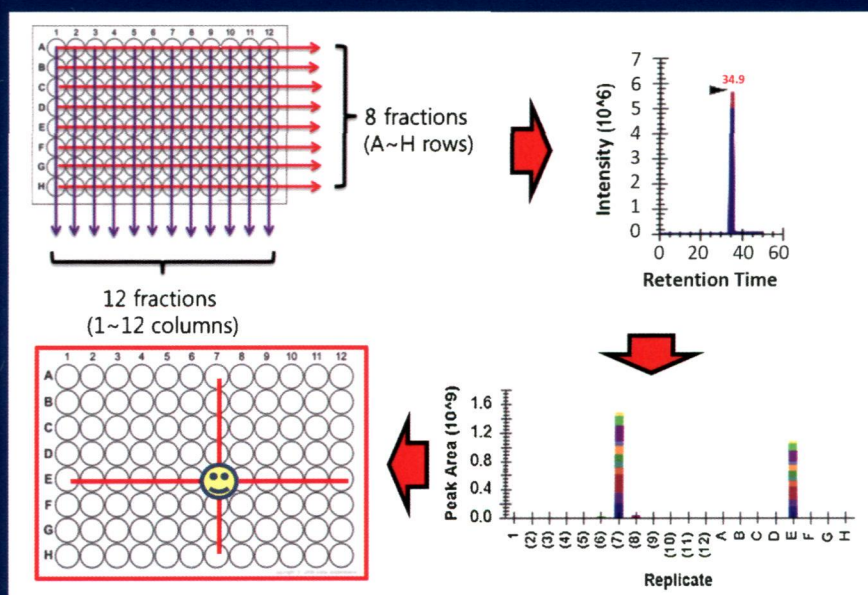
AN INTERNATIONAL JOURNAL DEVOTED TO ALL BRANCHES OF ANALYTICAL CHEMISTRY

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

"Detection and Quantification of Plasma Amyloid- β by Selected Reaction Monitoring Mass Spectrometry"

Jun S Kim, Hee-Sung Ahn, Soo M Cho, Ji E Lee,
YoungSoo Kim, Cheolju Lee

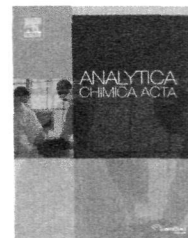
(Published on pp. 1–9 of this issue)



ELSEVIER

available at www.sciencedirect.com

ScienceDirect

journal homepage: www.elsevier.com/locate/aca

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

- Detection and quantification of plasma amyloid- β by selected reaction monitoring mass spectrometry
J.S. Kim, H.-S. Ahn, S.M. Cho, J.E. Lee, Y. Kim and C. Lee 1

Atomic Spectrometry

- Precise determination of dissolved silica in seawater by ion-exclusion chromatography isotope dilution inductively coupled plasma mass spectrometry
N. Nonose, C. Cheong, Y. Ishizawa, T. Miura and A. Hioki 10

Chemometrics

- Multivariate curve resolution applied to in situ X-ray absorption spectroscopy data: An efficient tool for data processing and analysis
A. Voronov, A. Urakawa, W.v. Beek, N.E. Tsakoumis, H. Emerich and M. Rønning 20

Electrochemistry

- Enzyme-based electrochemical biosensor for sensitive detection of DNA demethylation and the activity of DNA demethylase
Y. Zhou, B. Li, M. Wang, Z. Yang, H. Yin and S. Ai 28

Extraction and Sample Handling

- Preparation of stir cake sorptive extraction based on polymeric ionic liquid for the enrichment of benzimidazole anthelmintics in water, honey and milk samples
Y. Wang, J. Zhang, X. Huang and D. Yuan 33

Flow Analysis

- Heavy metal adsorptivity of calcium-alginate-modified diethylenetriamine-silica gel and its application to a flow analytical system using flame atomic absorption spectrometry
M. Mori, T. Suzuki, T. Sugita, D. Nagai, K. Hirayama, M. Onozato and H. Itabashi 42

Mass Spectrometry

- Optimization of matrix assisted desorption/ionization time of flight mass spectrometry (MALDI-TOF-MS) for the characterization of *Bacillus* and *Brevibacillus* species
N. AlMasoud, Y. Xu, N. Nicolaou and R. Goodacre 49

Molecular Spectrometry

- Monitoring cell culture media degradation using surface enhanced Raman scattering (SERS) spectroscopy
A. Calvet and A.G. Ryder 58

Sensors and Bioselective Reagents

- A novel enzyme-mimic nanosensor based on quantum dot-Au nanoparticle@silica mesoporous microsphere for the detection of glucose
Y. Li, Q. Ma, Z. Liu, X. Wang and X. Su 68

- A novel colorimetric PCR-based biosensor for detection and quantification of hepatitis B virus
L. Yang, F. Du, G. Chen, A. Yasmeen and Z. Tang 75

- Analysis of breath samples for lung cancer survival
B. Schmekel, F. Winquist and A. Vikström 82

- Novel synthesis of gold nanoclusters templated with l-tyrosine for selective analyzing tyrosinase
X. Yang, Y. Luo, Y. Zhuo, Y. Feng and S. Zhu 87