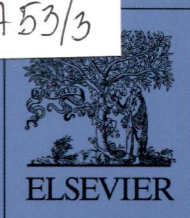


RM
A 53/3

VOLUME 848 27 OCTOBER 2014 ISSN 0003-2670



ANALYTICA CHIMICA ACTA

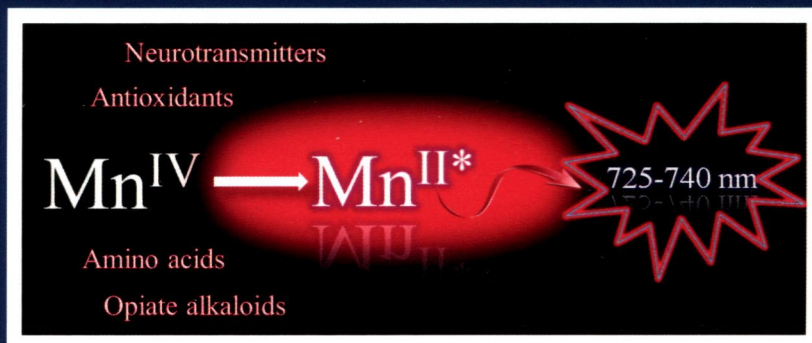
AN INTERNATIONAL JOURNAL DEVOTED TO ALL BRANCHES OF ANALYTICAL CHEMISTRY

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 Review article:

A review of recent advances in chemiluminescence detection using nano-colloidal manganese(IV)

Jacqui L. Adcock, Zoe M. Smith, Neil W. Barnett,
Gregory J. Barbante, Egan H. Doeven, Paul S. Francis

(Published on pp. 1–9 of this issue)

Available online at www.sciencedirect.com

ScienceDirect



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 Review article

- A review of recent advances in chemiluminescence detection using nano-colloidal manganese(IV)
J.L. Adcock, Z.M. Smith, N.W. Barnett, G.J. Barbante, E.H. Doeven and P.S. Francis 1

Chemometrics

- Multi-targeted interference-free determination of ten β -blockers in human urine and plasma samples by alternating trilinear decomposition algorithm-assisted liquid chromatography-mass spectrometry in full scan mode: Comparison with multiple reaction monitoring
H.-W. Gu, H.-L. Wu, X.-L. Yin, Y. Li, Y.-J. Liu, H. Xia, S.-R. Zhang, Y.-F. Jin, X.-D. Sun, R.-Q. Yu, P.-Y. Yang and H.-J. Lu ... 10

Electrochemistry

- Amino-functionalized mesoporous silica modified glassy carbon electrode for ultra-trace copper(II) determination
X. Dai, F. Qiu, X. Zhou, Y. Long, W. Li and Y. Tu 25
- Evaluation of healthy and sensory indexes of sweetened beverages using an electronic tongue
L.G. Dias, C. Sequeira, A.C.A. Veloso, M.E.B.C. Sousa and A.M. Peres 32

Extraction and Sample Handling

- Preconcentration in micro-electromembrane extraction across free liquid membranes
P. Kubáň and P. Boček 43

Mass Spectrometry

- Lipid characterization of individual porcine oocytes by dual mode DESI-MS and data fusion
V. Pirro, P. Oliveri, C.R. Ferreira, A.F. González-Serrano, Z. Machaty and R.G. Cooks 51

Molecular Spectrometry

- High angular-resolution automated visible-wavelength scanning angle Raman microscopy
M.D. Lesoine, J.M. Bobbitt, S. Zhu, N. Fang and E.A. Smith 61

Sensors and Bioselective Reagents

- Ultrasensitive determination of DNA sequences by flow injection chemiluminescence using silver ions as labels
L. Zheng, X. Liu, M. Zhou, Y. Ma, G. Wu and X. Lu 67
- Selective turn-on fluorescence for Zn^{2+} and $Zn^{2+} + Cd^{2+}$ metal ions by single Schiff base chemosensor
P.S. Hariharan and S.P. Anthony 74

Separation Methods

- Bacteria detection based on the evolution of enzyme-generated volatile organic compounds: Determination of *Listeria monocytogenes* in milk samples
E. Tait, J.D. Perry, S.P. Stanforth and J.R. Dean 80