



## Talanta

Copyright © 2006 Elsevier B.V. All rights reserved

Volume 69, Issue 4, Pages 781-1048 (15 June 2006)

**Article List**

Partial Abstracts

Full Abstracts

[display checked docs](#)[e-mail articles](#)

articles 1 - 42

- Editorial Board • EDITORIAL BOARD**  
*Page CO2*  
[PDF \(49 K\)](#)

### Review

- Applications of evolved gas analysis: Part 2: EGA by mass spectrometry • REVIEW ARTICLE**  
*Pages 781-794*  
S. Materazzi, A. Gentili and R. Curini  
[Abstract](#) | [Full Text + Links](#) | [PDF \(221 K\)](#)

### Regular Articles

- Quantitative analysis of morphine and noscapine using corona discharge ion mobility spectrometry with ammonia reagent gas • ARTICLE**  
*Pages 795-799*  
T. Khayamian, M. Tabrizchi and M.T. Jafari  
[Abstract](#) | [Full Text + Links](#) | [PDF \(420 K\)](#)
- Simultaneous determination of molybdenum(VI) and tungsten(VI) and its application in elemental analysis of polyoxometalates • ARTICLE**  
*Pages 800-806*  
P. Lubal, H. Kopeřivová, O. Šedo, J. Havel, S. Lis and S. But  
[Abstract](#) | [Full Text + Links](#) | [PDF \(443 K\)](#)

5. **Determination of PAHs in airborne particles by accelerated solvent extraction and large-volume injection–gas chromatography–mass spectrometry • ARTICLE**  
*Pages 807-815*  
V. Yusà, G. Quintas, O. Pardo, A. Pastor and M. de la Guardia  
[Abstract](#) | [Full Text + Links](#) | [PDF \(248 K\)](#)
6. **Catalytic adsorptive stripping voltammetry determination of ultra trace amount of molybdenum using factorial design for optimization • ARTICLE**  
*Pages 816-821*  
K. Zarei, M. Atabati and H. Ilkhani  
[Abstract](#) | [Full Text + Links](#) | [PDF \(230 K\)](#)
7. **Validation of reducing-difference procedure for the interpretation of non-polarized infrared spectra of *n*-component solid mixtures • ARTICLE**  
*Pages 822-828*  
Bojidarka B. Ivanova, Dimiter L. Tsalev and Michail G. Arnaudov  
[Abstract](#) | [Full Text + Links](#) | [PDF \(457 K\)](#)
8. **Electroanalytical applications of boron-doped diamond microelectrode arrays • ARTICLE**  
*Pages 829-834*  
Nathan S. Lawrence, Markus Pagels, Andrew Meredith, Timothy G.J. Jones, Clive E. Hall, C.S. Jim Pickles, Herman P. Godfried, Craig E. Banks, Richard G. Compton and Li Jiang  
[Abstract](#) | [Full Text + Links](#) | [PDF \(223 K\)](#)
9. **Separation and preconcentration of trace manganese from various samples with Amberlyst 36 column and determination by flame atomic absorption spectrometry • ARTICLE**  
*Pages 835-840*  
Erdal Kendüzler, A. Rehber Türker and Özcan Yalçinkaya  
[Abstract](#) | [Full Text + Links](#) | [PDF \(140 K\)](#)
10. **Coupling of sequential injection with liquid chromatography for the automated derivatization and on-line determination of amino acids • ARTICLE**  
*Pages 841-847*  
Constantinos K. Zacharis, Georgios A. Theodoridis and Anastasios N. Voulgaropoulos  
[Abstract](#) | [Full Text + Links](#) | [PDF \(218 K\)](#)
11. **Optimization of a single-drop microextraction procedure for the determination of organophosphorus pesticides in water and fruit juice with gas chromatography-flame photometric detection • ARTICLE**  
*Pages 848-855*  
Qin Xiao, Bin Hu, Chunhe Yu, Linbo Xia and Zucheng Jiang  
[Abstract](#) | [Full Text + Links](#) | [PDF \(327 K\)](#)

12. **Arsenic speciation in freshwater organisms from the river Danube in Hungary • ARTICLE**  
*Pages 856-865*  
Richard Schaeffer, Kevin A. Francesconi, Norbert Kienzl, Csilla Soeroes, Péter Fodor, László Váradi, Reingard Raml, Walter Goessler and Doris Kuehnelt  
[Abstract](#) | [Full Text + Links](#) | [PDF \(295 K\)](#)

---

13. **On the use of dispersed nanoparticles modified with single layer  $\beta$ -cyclodextrin as chiral selector to enhance enantioseparation of clenbuterol with capillary electrophoresis • ARTICLE**  
*Pages 866-872*  
Na Na, Yuping Hu, Jin Ouyang, Willy R.G. Baeyens, Joris R. Delanghe, Youri E.C. Taes, Mengxia Xie, Huaying Chen and Yiping Yang  
[Abstract](#) | [Full Text + Links](#) | [PDF \(414 K\)](#)

---

14. **Solution ionic strength effect on gold nanoparticle solution color transition • ARTICLE**  
*Pages 873-876*  
C. Burns, W.U. Spendel, S. Puckett and G.E. Pacey  
[Abstract](#) | [Full Text + Links](#) | [PDF \(134 K\)](#)

---

15. **Determination of Se(IV) by anodic stripping voltammetry using gold electrodes made from recordable CDs • ARTICLE**  
*Pages 877-881*  
Claudete Fernandes Pereira, Fabiano Barbieri Gonzaga, Antonio Moraes Guaritá-Santos and Jurandir Rodrigues SouzaDe  
[Abstract](#) | [Full Text + Links](#) | [PDF \(131 K\)](#)

---

16. **Focused microwaves-assisted extraction and simultaneous spectrophotometric determination of vanillin and *p*-hydroxybenzaldehyde from vanilla fragans • ARTICLE**  
*Pages 882-887*  
Arturo Longares-Patrón and M.P. Cañizares-Macías  
[Abstract](#) | [Full Text + Links](#) | [PDF \(106 K\)](#)

---

17. **An optical biosensor for dichlovos using stacked sol-gel films containing acetylcholinesterase and a lipophilic chromoionophore • ARTICLE**  
*Pages 888-893*  
Francis C.M. Wong, Musa Ahmad, Lee Yook Heng and Lim Boon Peng  
[Abstract](#) | [Full Text + Links](#) | [PDF \(266 K\)](#)

---

18. **Field analysis of benzene, toluene, ethylbenzene and xylene in water by portable gas chromatography-microflame ionization detector combined with headspace solid-phase microextraction • ARTICLE**  
*Pages 894-899*  
Jie Ji, Chunhui Deng, Wenwen Shen and Xiangmin Zhang  
[Abstract](#) | [Full Text + Links](#) | [PDF \(206 K\)](#)

19. **Flow injection spectrophotometric determination of andrographolide from *Andrographis paniculata*** • ARTICLE  
*Pages 900-905*  
Wirat Ruengsitagoon, Kunntee Anuntakarun and Chantana Aromdee  
[Abstract](#) | [Full Text + Links](#) | [PDF \(202 K\)](#)
20. **Frequency-selective absorbance detection: Refractive index and turbidity compensation with dual-wavelength measurement** • ARTICLE  
*Pages 906-913*  
In-Yong Eom and Purnendu K. Dasgupta  
[Abstract](#) | [Full Text + Links](#) | [PDF \(422 K\)](#)
21. **Catalytic adsorptive stripping voltammetric measurements of trace vanadium at bismuth film electrodes** • ARTICLE  
*Pages 914-917*  
Joseph Wang, Donglai Lu, Sompong Thongngamdee, Yuehe Lin and Omowunmi A. Sadik  
[Abstract](#) | [Full Text + Links](#) | [PDF \(225 K\)](#)
22. **Application of octadecanethiol self-assembled monolayer to cholesterol biosensor based on surface plasmon resonance technique** • ARTICLE  
*Pages 918-926*  
Sunil K. Arya, Pratima R. Solanki, Ravindra P. Singh, Manoj K. Pandey, Monika Datta and Bansi D. Malhotra  
[Abstract](#) | [Full Text + Links](#) | [PDF \(385 K\)](#)
23. **An improved flow-injection system for spectrophotometric determination of molybdenum and tungsten in tool steels** • ARTICLE  
*Pages 927-931*  
Ana P.G. Gervasio, Paula R. Fortes, Silvia R.P. Meneses, Carlos E.S. Miranda and Elias A.G. Zagatto  
[Abstract](#) | [Full Text + Links](#) | [PDF \(121 K\)](#)
24. **Voltammetric determination of atenolol at C<sub>60</sub>-modified glassy carbon electrodes** • ARTICLE  
*Pages 932-937*  
Rajendra N. Goyal and Sudhanshu P. Singh  
[Abstract](#) | [Full Text + Links](#) | [PDF \(208 K\)](#)
25. **Solid phase extraction vis-à-vis coprecipitation preconcentration of cadmium and lead from soils onto 5,7-dibromoquinoline-8-ol embedded benzophenone and determination by FAAS** • ARTICLE  
*Pages 938-945*  
K. Prasad, P. Gopikrishna, R. Kala, T. Prasada Rao and G.R.K. Naidu  
[Abstract](#) | [Full Text + Links](#) | [PDF \(312 K\)](#)

26. **Novel low humidity sensor made of TiO<sub>2</sub> nanowires/poly(2-acrylamido-2-methylpropane sulfonate) composite material film combined with quartz crystal microbalance** • ARTICLE  
*Pages 946-951*  
Pi-Guey Su, Yi-Lu Sun and Chu-Chieh Lin  
[Abstract](#) | [Full Text + Links](#) | [PDF \(424 K\)](#)
27. **Quantitative analysis of isoflavone aglycones in human serum by solid phase extraction and liquid chromatography–tandem mass spectrometry** • ARTICLE  
*Pages 952-956*  
Sun-An Chan, Shi-Wey Lin, Ken-Jen Yu, Tsung-Yun Liu and Ming-Ren Fuh  
[Abstract](#) | [Full Text + Links](#) | [PDF \(350 K\)](#)
28. **Preparation of cobalt hexacyanoferrate nanowires using carbon nanotubes as templates** • ARTICLE  
*Pages 957-962*  
Lei Qian and Xiurong Yang  
[Abstract](#) | [Full Text + Links](#) | [PDF \(398 K\)](#)
29. **Metal speciation of metallothionein in white sea catfish, *Netuma barba*, and pearl cichlid, *Geophagus brasiliensis*, by orthogonal liquid chromatography coupled to ICP-MS detection** • ARTICLE  
*Pages 963-969*  
A. Rodríguez-Cea, A.R. Linde Arias, M.R. Fernández de la Campa, J. Costa Moreira and A. Sanz-Medel  
[Abstract](#) | [Full Text + Links](#) | [PDF \(274 K\)](#)
30. **Evaluation of expanded graphite as on-line solid-phase extraction sorbent for high performance liquid chromatographic determination of trace levels of DDTs in water samples** • ARTICLE  
*Pages 970-975*  
You-Ya Zhou, Shan-Wei Wang, Ki-Nam Kim, Ji-Hui Li and Xiu-Ping Yan  
[Abstract](#) | [Full Text + Links](#) | [PDF \(196 K\)](#)
31. **Flow injection chemiluminescence determination of paracetamol** • ARTICLE  
*Pages 976-983*  
Wirat Ruengsitagoon, Saisunee Liawruangrath and Alan Townshend  
[Abstract](#) | [Full Text + Links](#) | [PDF \(194 K\)](#)
32. **Microchip flow-injection analysis of trace 2,4,6-trinitrotoluene (TNT) using mercury-amalgam electrochemical detector** • ARTICLE  
*Pages 984-987*  
Joseph Wang and Martin Pumera  
[Abstract](#) | [Full Text + Links](#) | [PDF \(170 K\)](#)

33. **Investigation of zinc binding metallothioneins' polymerization in tris (hydroxymethyl)-aminomethane buffer by coupling of size exclusion chromatography with electrospray ionization mass spectrometry** • ARTICLE  
*Pages 988-995*  
Jin-Can Shen, Jie Liu, Zhi-Xia Zhuang, Xiao-Ru Wang and Frank S.C. Lee  
[Abstract](#) | [Full Text + Links](#) | [PDF \(412 K\)](#)
34. **An integrated light emitting diode-induced fluorescence detector for capillary electrophoresis** • ARTICLE  
*Pages 996-1000*  
Bingcheng Yang, Hongzhe Tian, Jing Xu and Yafeng Guan  
[Abstract](#) | [Full Text + Links](#) | [PDF \(271 K\)](#)
35. **Determination of phenolic compounds in river water with on-line coupling bisphenol A imprinted monolithic precolumn with high performance liquid chromatography** • ARTICLE  
*Pages 1001-1006*  
Junjie Ou, Lianghai Hu, Ligang Hu, Xin Li and Hanfa Zou  
[Abstract](#) | [Full Text + Links](#) | [PDF \(215 K\)](#)
36. **A newly synthesized macrocyclic dithioamide receptor for phosphate sensing** • ARTICLE  
*Pages 1007-1012*  
A.K. Jain, V.K. Gupta and J.R. Raisoni  
[Abstract](#) | [Full Text + Links](#) | [PDF \(249 K\)](#)
37. **Chiral separations of piperidine-2,6-dione analogues on Chiralpak IA and Chiralpak IB columns by using HPLC** • ARTICLE  
*Pages 1013-1017*  
Imran Ali, Lahoucine Naim, Ashraf Ghanem and Hassan Y. Aboul-Enein  
[Abstract](#) | [Full Text + Links](#) | [PDF \(115 K\)](#)
38. **Determination of sodium tripolyphosphate in meat samples by capillary zone electrophoresis with on-line isotachopheric sample pre-treatment** • ARTICLE  
*Pages 1018-1024*  
A. Jastrz•bska  
[Abstract](#) | [Full Text + Links](#) | [PDF \(226 K\)](#)
39. **Determination of chromium by GFAAS in slurries of fish feces to estimate the apparent digestibility of nutrients in feed used in pisciculture** • ARTICLE  
*Pages 1025-1030*  
Fabio Arlindo Silva, Cilene C. Federici Padilha, Luis Edvaldo Pezzato, Margarida Maria Barros and Pedro M. Padilha  
[Abstract](#) | [Full Text + Links](#) | [PDF \(145 K\)](#)

40. **Monoclonal antibody based electrochemical immunosensor for the determination of ochratoxin A in wheat** • ARTICLE

*Pages 1031-1037*

Sergio Hugo Alarcón, Giuseppe Palleschi, Dario Compagnone, Michelangelo Pascale, Angelo Visconti and Ildikó Barna-Vetró

[Abstract](#) | [Full Text + Links](#) | [PDF \(215 K\)](#)

41. **Influence of the presence of surfactants and humic acid in waters on the indophenol-type reaction method for ammonium determination** • ARTICLE

*Pages 1038-1045*

Y. Moliner-Martínez, P. Campíns-Falcó and R. Herráez-Hernández

[Abstract](#) | [Full Text + Links](#) | [PDF \(270 K\)](#)

## Short Communication

42. **Reduction of the matrix influence on analytical signal in laser-enhanced ionization spectrometry with laser sampling** • SHORT COMMUNICATION

*Pages 1046-1048*

Alexander A. Gorbatenko, Timur A. Labutin, Andrey M. Popov and Nikita B. Zorov

[Abstract](#) | [Full Text + Links](#) | [PDF \(143 K\)](#)

articles 1 - 42

[◀ previous volume/issue](#)

[volume/issue list](#)

[next volume/issue ▶](#)

[Home](#)

[Journals](#)

[Books](#)

[Abstract Databases](#)

[My Profile](#)

[Alerts](#)

[? Help](#)

[Contact Us](#) | [Terms & Conditions](#) | [Privacy Policy](#)

Copyright © 2006 [Elsevier B.V.](#) All rights reserved. ScienceDirect® is a registered trademark of Elsevier B.V.