

Login: Register



You have **Guest** access to ScienceDirect
[Find out more...](#)

[Browse](#)
[My Settings](#)
[Alerts](#)
[Help](#)

[Home](#)

Quick Search Title, abstract, keywords Author e.g. j s smith

[search tips](#) Journal/book title Volume Issue Page [Clear](#)



Talanta Alert me about new Journal Issues

Copyright © 2007 Elsevier B.V.
 All rights reserved
 Shortcut URL to this page: <http://www.sciencedirect.com/science/journal/00399140>

[Add to Favorites](#)
[Apply](#)

[Sample Issue Online](#) | [About this Journal](#) | [Submit your Article](#)

- = Full-text available
- = Non-subscribed
- [What does this mean?](#)
- Articles in Press**
- Volume 72 (2007)**
- Volume 71 (2007)**
- Volume 70 (2006)**
- Volume 70, Issue 5**
 pp. N1-N2, 907-1176 (15 December 2006)
 Colloquium Spectroscopicum Internationale XXXIV - CSI XXXIV
- Volume 70, Issue 4**
 pp. 677-906 (15 November 2006)
 A collection of Papers Presented at the 1st Workshop of the European Union: Analysis and Removal of Contaminants from Wastewaters for the Implementation of the Water Framework Directive - 1st EMCO 2005
- Volume 70, Issue 3**
 pp. 481-676 (15 October 2006)
- Volume 70, Issue 2**
 pp. 225-480 (15 September 2006)
- Volume 70, Issue 1**
 pp. 1-224 (15 August 2006)
 China-Japan-Korea Environmental Analytical Chemistry Symposium - China-Japan-Korea Environmental Analytical Chemistry Symposium
- Volume 69 (2006)**
- Volume 68 (2005 - 2006)**
- Volume 67 (2005)**
- Volume 66 (2005)**
- Volume 65 (2005)**
- Volume 64 (2004)**
- Volume 63 (2004)**

- [+ Volume 62 \(2004\)](#)
- [+ Volume 61 \(2003\)](#)
- [+ Volume 60 \(2003\)](#)
- [+ Volume 59 \(2003\)](#)
- [+ Volume 58 \(2002\)](#)
- [+ Volume 57 \(2002\)](#)
- [+ Volume 56 \(2002\)](#)
- [+ Volume 55 \(2001\)](#)
- [+ Volume 54 \(2001\)](#)
- [+ Volume 53 \(2000 - 2001\)](#)
- [+ Volume 52 \(2000\)](#)
- [+ Volume 51 \(2000\)](#)
- [+ Volume 50 \(1999 - 2000\)](#)
- [+ Volume 49 \(1999\)](#)
- [+ Volume 48 \(1999\)](#)
- [+ Volume 47 \(1998\)](#)
- [+ Volume 46 \(1998\)](#)
- [+ Volume 45 \(1997 - 1998\)](#)
- [+ Volume 44 \(1997\)](#)
- [+ Volume 43 \(1996\)](#)
- [+ Volume 42 \(1995\)](#)
- [+ Volume 41 \(1994\)](#)
- [+ Volume 40 \(1993\)](#)
- [+ Volume 39 \(1992\)](#)
- [+ Volume 38 \(1991\)](#)
- [+ Volume 37 \(1990\)](#)
- [+ Volume 36 \(1989\)](#)
- [+ Volume 35 \(1988\)](#)
- [+ Volume 34 \(1987\)](#)
- [+ Volume 33 \(1986\)](#)
- [+ Volume 32 \(1985\)](#)
- [+ Volume 31 \(1984\)](#)
- [+ Volume 30 \(1983\)](#)
- [+ Volume 29 \(1982\)](#)
- [+ Volume 28 \(1981\)](#)
- [+ Volume 27 \(1980\)](#)
- [+ Volume 26 \(1979\)](#)
- [+ Volume 25 \(1978\)](#)
- [+ Volume 24 \(1977\)](#)
- [+ Volume 23 \(1976\)](#)
- [+ Volume 22 \(1975\)](#)
- [+ Volume 21 \(1974\)](#)
- [+ Volume 20 \(1973\)](#)
- [+ Volume 19 \(1972\)](#)
- [+ Volume 18 \(1971\)](#)
- [+ Volume 17 \(1970\)](#)
- [+ Volume 16 \(1969\)](#)
- [+ Volume 15 \(1968\)](#)
- [+ Volume 14 \(1967\)](#)
- [+ Volume 13 \(1966\)](#)
- [+ Volume 12 \(1965\)](#)
- [+ Volume 11 \(1964\)](#)
- [+ Volume 10 \(1963\)](#)

- [+ Volume 9 \(1962\)](#)
- [+ Volume 8 \(1961\)](#)
- [+ Volume 7 \(1960 - 1961\)](#)
- [+ Volume 6 \(1960\)](#)
- [+ Volume 5 \(1960\)](#)
- [+ Volume 4 \(1960\)](#)
- [+ Volume 3 \(1959 - 1960\)](#)
- [+ Volume 2 \(1959\)](#)
- [+ Volume 1 \(1958\)](#)

Volume 70, Issue 5, Pages N1-N2, 907-1176 (15 December 2006) • [Previous vol/iss](#) [Next vol/iss](#)

Colloquium Spectroscopicum Internationale XXXIV - CSI XXXIV

Antwerp, Belgium
04-09 September 2005
Edited by K. Janssens, A. Bogaerts and R. Van Grieken

Article List

Full Abstracts



Add to my Quick Links

articles 1 - 41

1. **Editorial Board • EDITORIAL BOARD**
Page CO2
[PDF \(47 K\)](#) To Purchase and Download the Full Article, Click PDF






A Collection of Papers Presented at the Colloquium Spectroscopicum Internationale XXXIV

2. **Colloquium Spectroscopicum Internationale XXXIV, Antwerp, Belgium, 4–9 September 2005 • EDITORIAL**
Pages 907-908
Koen Janssens, Annemie Bogaerts and René Van Grieken
[Abstract](#) | [Full Text + Links](#) | [PDF \(72 K\)](#) To Purchase and Download the Full Article, Click PDF

3. **XRF study of archaeological and metallurgical material from an ancient copper-smelting site near Ein-Yahav, Israel • ARTICLE**
Pages 909-913
S. Shalev, S.Sh. Shilstein and Yu. Yekutieli
[Abstract](#) | [Full Text + Links](#) | [PDF \(382 K\)](#) To Purchase and Download the Full Article, Click PDF

4. **Prostatic Zn determination for prostate cancer diagnosis • ARTICLE**
Pages 914-921
S.Sh. Shilstein, M. Cortesi, A. Breskin, R. Chechik, D. Vartsky, G. Raviv, N. Kleinman, J. Ramon, G. Kogan, V. Gladyshev, *et al.*
[Abstract](#) | [Full Text + Links](#) | [PDF \(710 K\)](#) To Purchase and Download the Full Article, Click PDF

5. **Structure–activity correlations for illicit amphetamines using ANN and constitutional descriptors** • ARTICLE
Pages 922-928
S. Gosav, M. Praisler, D.O. Dorohoi and G. Popa
[Abstract](#) | [Full Text + Links](#) | [PDF \(378 K\)](#) | [To Purchase and Download the Full Article, Click PDF](#)
6. **Determination of copper and nickel in vegetable oils by direct sampling graphite furnace atomic absorption spectrometry** • ARTICLE
Pages 929-932
Mariela N. Matos Reyes and Reinaldo C. Campos
[Abstract](#) | [Full Text + Links](#) | [PDF \(106 K\)](#) | [To Purchase and Download the Full Article, Click PDF](#)
7. **Rapid determination of aluminum by UV–vis diffuse reflectance spectroscopy with application of suitable adsorbents** • ARTICLE
Pages 933-939
M.A. Zanjanchi, H. Noei and M. Moghimi
[Abstract](#) | [Full Text + Links](#) | [PDF \(472 K\)](#) | [To Purchase and Download the Full Article, Click PDF](#)
8. **Infrared study of chlorophenols and products of their photodegradation** • ARTICLE
Pages 940-949
M. Czaplicka and B. Kaczmarczyk
[Abstract](#) | [Full Text + Links](#) | [PDF \(602 K\)](#) | [To Purchase and Download the Full Article, Click PDF](#)
9. **The application of ICP-MS and ICP-OES in determination of micronutrients in wood ashes used as soil conditioners** • ARTICLE
Pages 950-956
H. Górecka, K. Chojnacka and H. Górecki
[Abstract](#) | [Full Text + Links](#) | [PDF \(557 K\)](#) | [To Purchase and Download the Full Article, Click PDF](#)

-  10. **Lead post-mortem intake in human bones of ancient populations by ^{109}Cd -based X-ray fluorescence and EDXRF** • ARTICLE
Pages 957-961
J. Rebôcho, M.L. Carvalho, A.F. Marques, F.R. Ferreira and D.R. Chettle
[Abstract](#) | [Full Text + Links](#) | [PDF \(218 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
-  11. **Validation of mercury determination by solid sampling Zeeman atomic absorption spectrometry and a specially designed furnace** • ARTICLE
Pages 962-965
Karl-Heinz Grobecker and Albená Detcheva
[Abstract](#) | [Full Text + Links](#) | [PDF \(414 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
-  12. **The application of multielemental analysis in the elaboration of technology of mineral feed additives based on *Lemna minor* biomass** • ARTICLE
Pages 966-972
K. Chojnacka
[Abstract](#) | [Full Text + Links](#) | [PDF \(568 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
-  13. **The utilization of modified BCR three-step sequential extraction procedure for the fractionation of Cd, Cr, Cu, Ni, Pb and Zn in soil reference materials of different origins** • ARTICLE
Pages 973-978
Mária Žemberyová, Jana Barteková and Ingrid Hagarová
[Abstract](#) | [Full Text + Links](#) | [PDF \(477 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
-  14. **Automated on-line separation preconcentration system for palladium determination by graphite furnace atomic absorption spectrometry and its application to palladium determination in environmental and food samples** • ARTICLE
Pages 979-983
F. Sánchez Rojas, C. Bosch Ojeda and J.M. Cano Pavón
[Abstract](#) | [Full Text + Links](#) | [PDF \(174 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**






15. **Influence of different bentonites on the rare earth element concentrations of clarified Romanian wines** • ARTICLE
Pages 984-990
Victor G. Mihucz, Carla J. Done, Enikő Tatár, István Virág, Gyula Záray and Emil G. Baiulescu
[Abstract](#) | [Full Text + Links](#) | [PDF \(820 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
16. **Fast steel-cleanliness characterization by means of laser-assisted plasma spectrometric methods** • ARTICLE
Pages 991-995
Gregor Müller, Frank Stahnke and Davide Bleiner
[Abstract](#) | [Full Text + Links](#) | [PDF \(384 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
17. **Free aluminium extraction from various reference materials and acid soils with relation to plant availability** • ARTICLE
Pages 996-1005
Peter Matúš, Jana Kubová, Marek Bujdoš and Ján Medved'
[Abstract](#) | [Full Text + Links](#) | [PDF \(567 K\)](#) | **To Purchase and Download the Full Article, Click PDF**






Short Communication

18. **Determination of total water content in inulin using the volumetric Karl Fischer titration** • SHORT COMMUNICATION
Pages 1006-1010
Sébastien N. Ronkart, Michel Paquot, Christian Fougnes, Claude Deroanne, Jean-Claude Van Herck and Christophe Blecker
[Abstract](#) | [Full Text + Links](#) | [PDF \(193 K\)](#) | **To Purchase and Download the Full Article, Click PDF**

Regular Articles



19. **Chemical analysis of polycyclic aromatic hydrocarbons by surface-enhanced Raman spectroscopy** • ARTICLE
Pages 1011-1016
J.C.S. Costa, A.C. Sant'Ana, P. Corio and M.L.A. Temperini
[Abstract](#) | [Full Text + Links](#) | [PDF \(490 K\)](#) | **To Purchase and Download the Full Article, Click PDF**

-  20. **On-site analysis of volatile nitrosamines in food model systems by solid-phase microextraction coupled to a direct extraction device** • ARTICLE
Pages 1017-1023
S. Ventanas and J. Ruiz
[Abstract](#) | [Full Text + Links](#) | [PDF \(546 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
-  21. **Effect of insignificant bias and its uncertainty on the coverage probability of uncertainty intervals: Part 1. Evaluation for a given value of the true bias** • ARTICLE
Pages 1024-1034
Václav Synek
[Abstract](#) | [Full Text + Links](#) | [PDF \(411 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
-  22. **Polarographic chemometric determination of zinc and nickel in aqueous samples** • ARTICLE
Pages 1035-1043
Marwa S. Moneeb
[Abstract](#) | [Full Text + Links](#) | [PDF \(191 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
-  23. **Determination of epichlorohydrin in water and sewage samples** • ARTICLE
Pages 1044-1050
Jerzy Gaca and Grażyna Wejnerowska
[Abstract](#) | [Full Text + Links](#) | [PDF \(185 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
-  24. **Determination of polybrominated diphenyl ethers in soil by ultrasonic assisted extraction and gas chromatography mass spectrometry** • ARTICLE
Pages 1051-1056
Consuelo Sánchez-Brunete, Esther Miguel and José L. Tadeo
[Abstract](#) | [Full Text + Links](#) | [PDF \(304 K\)](#) | **To Purchase and Download the Full Article, Click PDF**

-  25. **Evaluation of two commercial capillary columns for the enantioselective gas chromatographic separation of organophosphorus pesticides •**
ARTICLE
Pages 1057-1063
Natalia Fidalgo-Used, Elisa Blanco-González and Alfredo Sanz-Medel
[Abstract](#) | [Full Text + Links](#) | [PDF \(350 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
-  26. **Development and validation of an improved liquid chromatographic method for the analysis of dirithromycin •** ARTICLE
Pages 1064-1072
José Diana, Vicky Manyanga, Jos Hoogmartens and Erwin Adams
[Abstract](#) | [Full Text + Links](#) | [PDF \(1424 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
-  27. **Measurements of contaminant elements of wines by inductively coupled plasma-mass spectrometry: A comparison of two calibration approaches •**
ARTICLE
Pages 1073-1080
Sofia Catarino, A.S. Curvelo-Garcia and R. Bruno de Sousa
[Abstract](#) | [Full Text + Links](#) | [PDF \(323 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
-  28. **A preconcentration system using polyamine Metalfix-Chelamine resin for the on-line determination of palladium(II) and platinum(IV) by inductively coupled plasma optical emission spectrometry •** ARTICLE
Pages 1081-1086
M. Muzikar, C. Fontàs, M. Hidalgo, J. Havel and V. Salvadó
[Abstract](#) | [Full Text + Links](#) | [PDF \(194 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
-  29. **A 15-crown-5-functionalized carbosilane dendrimer as ionophore for ammonium selective electrodes •**
ARTICLE
Pages 1087-1093
Sudeshna Chandra, Roy Buschbeck and Heinrich Lang
[Abstract](#) | [Full Text + Links](#) | [PDF \(307 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**

30. **Off-line coupling of pressurized liquid extraction and LC/ED for the determination of retinyl acetate and tocopherols in infant formulas** • ARTICLE
Pages 1094-1099
M.M. Delgado-Zamarreño, M. Bustamante-Rangel, M. García-Jiménez, A. Sánchez-Pérez and R. Carabias-Martínez
[Abstract](#) | [Full Text + Links](#) | [PDF \(253 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
31. **On-line sample treatment and FT-IR determination of doxylamine succinate in pharmaceuticals** • ARTICLE
Pages 1100-1106
Josep F. Ventura-Gayete, Miguel de la Guardia and Salvador Garrigues
[Abstract](#) | [Full Text + Links](#) | [PDF \(392 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
32. **Ion-selective electrodes for determination of organic ammonium ions: Ways for selectivity control** • ARTICLE
Pages 1107-1116
Vladimir V. Egorov and Alexander A. Bolotin
[Abstract](#) | [Full Text + Links](#) | [PDF \(683 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
33. **On-line preconcentration of pharmaceutical residues from large volume water samples using short reversed-phase monolithic cartridges coupled to LC-UV-ESI-MS** • ARTICLE
Pages 1117-1128
Jonathan Bones, Kevin Thomas, Pavel N. Nesterenko and Brett Paull
[Abstract](#) | [Full Text + Links](#) | [PDF \(356 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**
34. **Biosorption of heavy metals on *Aspergillus fumigatus* immobilized Diaion HP-2MG resin for their atomic absorption spectrometric determinations** • ARTICLE
Pages 1129-1135
Mustafa Soylak, Mustafa Tuzen, Durali Mendil and Ibrahim Turkekul
[Abstract](#) | [Full Text + Links](#) | [PDF \(313 K\)](#) To
| **Purchase and Download the Full Article, Click PDF**

35. **Kinetics of oil saponification by lead salts in ancient preparations of pharmaceutical lead plasters and painting lead mediums** • ARTICLE
Pages 1136-1142
M. Cotte, E. Checroun, J. Susini, P. Dumas, P. Tchoreloff, M. Besnard and Ph. Walter
[Abstract](#) | [Full Text + Links](#) | [PDF \(398 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
36. **Differentiation of young red wines based on cultivar and geographical origin with application of chemometrics of principal polyphenolic constituents** • ARTICLE
Pages 1143-1152
Dimitris P. Makris, Stamatina Kallithraka and Andreas Mamalos
[Abstract](#) | [Full Text + Links](#) | [PDF \(1105 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
37. **Speciation analysis of plants in the determination of V(V) by ETAAS** • ARTICLE
Pages 1153-1156
Khakhathi L. Mandiwana and Nikolay Panichev
[Abstract](#) | [Full Text + Links](#) | [PDF \(283 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
38. **Separation and determination of l-tyrosine and its metabolites by capillary zone electrophoresis with a wall-jet amperometric detection** • ARTICLE
Pages 1157-1163
Ying Huang, Xiuyan Jiang, Wei Wang, Jianping Duan and Guonan Chen
[Abstract](#) | [Full Text + Links](#) | [PDF \(530 K\)](#) | **To Purchase and Download the Full Article, Click PDF**
39. **Hg(II)-imprinted thiol-functionalized mesoporous sorbent micro-column preconcentration of trace mercury and determination by inductively coupled plasma optical emission spectrometry** • ARTICLE
Pages 1164-1169
Zhefeng Fan
[Abstract](#) | [Full Text + Links](#) | [PDF \(337 K\)](#) | **To Purchase and Download the Full Article, Click PDF**

-  40. **Identification of rhubarbs by using NIR spectrometry and temperature-constrained cascade correlation networks** • ARTICLE
Pages 1170-1176
Fengxia Wang, Zhuoyong Zhang, Xiujun Cui and Peter de B. Harrington
[Abstract](#) | [Full Text + Links](#) | [PDF \(289 K\)](#) To **Purchase and Download the Full Article, Click PDF**
-  41. **Calendar of forthcoming meetings** • CALENDAR
Page N1
[PDF \(24 K\)](#) To **Purchase and Download the Full Article, Click PDF**

articles 1 - 41

[Browse](#)

[My Settings](#)

[Alerts](#)

[Help](#)

[Home](#)



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

Copyright © 2007 Elsevier B.V. All rights reserved. ScienceDirect® is a registered trademark of Elsevier B.V.