

Quick Search All fields Author
 ? search tips Journal/ book title Volume Issue Page Clear Advanced Search



Talanta

Copyright © 2009 Elsevier B.V. All rights reserved

[Sample Issue Online](#) | [About this Journal](#) | [Submit your Article](#) | [Shortcut link to this Title](#)

New Article Feed

Alert me about new Volumes / Issues

Your selection(s) could not be saved due to an internal error. Please try again.

Add to collab

Add to Favorites

Font Size:

- = Full-text available
- = Abstract only
- Articles in Press**

+ [Volume 78 \(2009\)](#)

- [Volume 77 \(2008 - 2009\)](#)

[Volume 77, Issue 5](#)
pp. 1559-1882 (15 March 2009)

[Volume 77, Issue 4](#)
pp. 1245-1558 (15 February 2009)

[Volume 77, Issue 3](#)
pp. 925-1244 (15 January 2009)

[Volume 77, Issue 2](#)
pp. 461-924 (15 December 2008)
14th International Conference on Flow Injection Analysis and Related Techniques

[Volume 77, Issue 1](#)
pp. 1-460 (19 October 2008)

+ [Volume 76 \(2008\)](#)

+ [Volume 75 \(2008\)](#)

+ [Volume 74 \(2007 - 2008\)](#)

+ [Volume 73 \(2007\)](#)

+ [Volume 72 \(2007\)](#)

+ [Volume 71 \(2007\)](#)

+ [Volume 70 \(2006\)](#)

+ [Volume 69 \(2006\)](#)

+ [Volume 68 \(2005 - 2006\)](#)

+ [Volume 67 \(2005\)](#)

+ [Volume 66 \(2005\)](#)

+ [Volume 65 \(2005\)](#)

+ [Volume 64 \(2004\)](#)

+ [Volume 63 \(2004\)](#)

Volume 77, Issue 5, Pages 1559-1882 (15 March 2009)

• [Previous vol/iss](#) [Next vol/iss](#) •

Add to my Quick Links

Open All Previews

articles 1 - 52

1. [Editorial Board](#)
Page CO2
 Preview PDF (45 K) | [Related Articles](#)

Review

2. [Flow injection based methods for fast screening of antioxidant capacity](#)
Pages 1559-1566
Luís M. Magalhães, Miguel Santos, Marcela A. Segundo, Salette Reis, José L.F.C. Lima
 Preview PDF (445 K) | [Related Articles](#)

Regular Articles




























3. [Chlorine gas sensors using one-dimensional tellurium nanostructures](#)
Pages 1567-1572
Shashwati Sen, Madhvi Sharma, Vivek Kumar, K.P. Muthe, P.V. Satyam, Umananda M. Bhatta, M. Roy, N.K. Gaur, S.K. Gupta, J.V. Yakhmi
 Preview PDF (832 K) | [Related Articles](#)

4. [Liquid chromatographic fingerprint of 3-methylflavone-8-carboxylic acid established for its synthesis control analysis](#)
Pages 1573-1578
Jun-Qin Qiao, Dong Sheng, Hong-Zhen Lian
 Preview PDF (313 K) | [Related Articles](#)




























- [+ 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 \(1966\)](#)





























5.  [Separation/preconcentration of trace amounts of Cr, Cu and Pb in environmental samples by magnetic solid-phase extraction with Bismuthiol-II-immobilized magnetic nanoparticles and their determination by ICP-OES](#)
Pages 1579-1583
Jibrin Sabo Suleiman, Bin Hu, Hanyong Peng, Chaozhang Huang
 [Preview](#)  [PDF \(420 K\)](#) | [Related Articles](#)
6.  [Digital image-based flame emission spectrometry](#)
Pages 1584-1589
Wellington Silva Lyra, Vagner Bezerra dos Santos, Amália Geiza Gama Dionízio, Valdomiro Lacerda Martins, Luciano Farias Almeida, Edvaldo Nóbrega Gaião, Paulo Henrique Gonçalves Dias Diniz, Edvan Cirino Silva, Mário César Ugulino Araújo
 [Preview](#)  [PDF \(616 K\)](#) | [Related Articles](#)
7.  [Development of an optical ammonia sensor based on polyaniline/epoxy resin \(SU-8\) composite](#)
Pages 1590-1596
A. Airoudj, D. Debarnot, B. Bêche, F. Poncin-Epaillard
 [Preview](#)  [PDF \(995 K\)](#) | [Related Articles](#)
8.  [In situ continuous derivatization/pre-concentration of carbonyl compounds with 2,4-dinitrophenylhydrazine in aqueous samples by solid-phase extraction: Application to liquid chromatography determination of aldehydes](#)
Pages 1597-1602
Clara-Eugenia Baños, Manuel Silva
 [Preview](#)  [PDF \(464 K\)](#) | [Related Articles](#)
9.  [Authentication of fattening diet of goat kid according to their fatty acid profile from perirenal fat](#)
Pages 1603-1608
Tania Mellado-González, Mónica Narváez-Rivas, M. Jesús Alcalde, Tomás Cano, Manuel León-Camacho
 [Preview](#)  [PDF \(321 K\)](#) | [Related Articles](#)
10.  [A LC-MS method allowing the analysis of HMX and RDX present at the picogram level in natural aqueous samples without a concentration step](#)
Pages 1609-1613
Olivier Vigneau, Xavier Machuron-Mandard
 [Preview](#)  [PDF \(402 K\)](#) | [Related Articles](#)
11.  [Hybrid sequential injection-flow injection manifold for the spectrophotometric determination of total sulfite in wines using o-phthalaldehyde and gas-diffusion](#)
Pages 1614-1619
Paraskevas D. Tzanavaras, Eleni Thiakouli, Demetrius G. Themelis
 [Preview](#)  [PDF \(246 K\)](#) | [Related Articles](#)
12.  [Amperometric determination of cyanides at the low ppb level by automated preconcentration based on gas diffusion coupled to sequential injection analysis](#)
Pages 1620-1626
Constantinos K. Zacharis, Paraskevas D. Tzanavaras, Anastasios N. Voulgaropoulos, Bo Karlberg
 [Preview](#)  [PDF \(369 K\)](#) | [Related Articles](#)
13.  [Phosphotriesterase: A complementary tool for the selective detection of two organophosphate insecticides: Chlorpyrifos and chlorfenvinfos](#)
Pages 1627-1631
Georges Istamboulie, Didier Fournier, Jean-Louis Marty, Thierry Noguer
 [Preview](#)  [PDF \(286 K\)](#) | [Related Articles](#)

- [+ 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 \(1958\)](#)

14.  [Improved design for high resolution electrospray ionization ion mobility spectrometry](#)
Pages 1632-1639
M.T. Jafari
 [Preview](#)  [PDF \(860 K\)](#) | [Related Articles](#)
15.  [Excitation-emission-kinetic fluorescence coupled with third-order calibration for quantifying carbaryl and investigating the hydrolysis in effluent water](#)
Pages 1640-1646
Shao-Hua Zhu, Hai-Long Wu, A-Lin Xia, Jin-Fang Nie, Ying-Chao Bian, Chen-Bo Cai, Ru-Qin Yu
 [Preview](#)  [PDF \(669 K\)](#) | [Related Articles](#)
16.  [Deoxyribonucleic acid modified poly\(dimethylsiloxane\) microfluidic channels for the enhancement of microchip electrophoresis](#)
Pages 1647-1653
Ruping Liang, Pengfei Hu, Guihua Gan, Jianding Qiu
 [Preview](#)  [PDF \(517 K\)](#) | [Related Articles](#)
17.  [Size-dependent electrochemiluminescence behavior of water-soluble CdTe quantum dots and selective sensing of L-cysteine](#)
Pages 1654-1659
Lijuan Hua, Heyou Han, Xueji Zhang
 [Preview](#)  [PDF \(677 K\)](#) | [Related Articles](#)
18.  [Classification of edible vegetable oils using square wave voltammetry with multivariate data analysis](#)
Pages 1660-1666
Francisco Fernandes Gambarra-Neto, Gimaldo Marino, Mário César Ugulino Araújo, Roberto Kawakami Harrop Galvão, Márcio José Coelho Pontes, Everaldo Paulo de Medeiros, Renato Sousa Lima
 [Preview](#)  [PDF \(259 K\)](#) | [Related Articles](#)
19.  [Enhanced separation of seven quinolones by capillary electrophoresis with silica nanoparticles as additive](#)
Pages 1667-1674
Yanqing Wang, Willy R.G. Baeyens, Changgang Huang, Guangtao Fei, Li He, Jin Ouyang
 [Preview](#)  [PDF \(524 K\)](#) | [Related Articles](#)
20.  [H₂S sensing properties of nanocrystalline Sr₂Fe_{0.6}Ni_{0.4}MoO₆ thick film prepared by sol-gel citrate method](#)
Pages 1675-1679
G.N. Chaudhari, N.N. Gedam, S.V. Jagtap, S.V. Manorama
 [Preview](#)  [PDF \(615 K\)](#) | [Related Articles](#)
21.  [High-resolution surface plasmon resonance sensors based on a dove prism](#)
Pages 1680-1687
Olivier R. Bolduc, Ludovic S. Live, Jean-François Masson
 [Preview](#)  [PDF \(776 K\)](#) | [Related Articles](#)
22.  [Chemical activation of egg shell membrane for covalent immobilization of enzymes and its evaluation as inert support in urinary oxalate determination](#)
Pages 1688-1693
C.S. Pundir, Manu Bhambi, Nar Singh Chauhan
 [Preview](#)  [PDF \(505 K\)](#) | [Related Articles](#)

23.  **Silver UPD ultra-thin film modified nanoporous gold electrode with applications in the electrochemical detection of chloride**
Pages 1694-1700
Jing-Fang Huang
 [Preview](#)  [PDF \(790 K\)](#) | [Related Articles](#)
24.  **Rapid determination of Δ^9 -Tetrahydrocannabinol in saliva by polymer monolith microextraction combined with gas chromatography–mass spectrometry**
Pages 1701-1706
Dan Luo, Fei Chen, Kuang Xiao, Yu-Qi Feng
 [Preview](#)  [PDF \(495 K\)](#) | [Related Articles](#)
25.  **Synthesis and spectral characteristics of two novel intramolecular charge transfer fluorescent dyes**
Pages 1707-1714
Shengmei Song, Dong Ju, Junfen Li, Duxin Li, Yanli Wei, Chuan Dong, Peihua Lin, Shaomin Shuang
 [Preview](#)  [PDF \(995 K\)](#) | [Related Articles](#)
26.  **Standard addition analysis of fluoroquinolones in human serum in the presence of the interferent salicylate using lanthanide-sensitized excitation-time decay luminescence data and multivariate curve resolution**
Pages 1715-1723
Valeria A. Lozano, Romà Tauler, Gabriela A. Ibañez, Alejandro C. Olivieri
 [Preview](#)  [PDF \(454 K\)](#) | [Related Articles](#)
27.  **Preliminary study of UV ageing process of proteinaceous paint binder by FT-IR and principal component analysis**
Pages 1724-1731
E. Manzano, N. Navas, R. Checa-Moreno, L. Rodríguez-Simón, L.F. Capitán-Vallvey
 [Preview](#)  [PDF \(1306 K\)](#) | [Related Articles](#)
28.  **Application of tandem column solid phase extraction and flame atomic absorption spectrometry for the determination of inorganic and organically bound forms of iron in wine**
Pages 1732-1738
Pawel Pohl, Bartłomiej Prusisz
 [Preview](#)  [PDF \(268 K\)](#) | [Related Articles](#)
29.  **Flow injection analysis system based on amperometric thin-film transducers for free chlorine detection in swimming pool waters**
Pages 1739-1744
Rosa Olivé-Monllau, Jahir Orozco, César Fernández-Sánchez, Mireia Baeza, Jordi Bartolí, Cecilia Jimenez-Jorquera, Francisco Céspedes
 [Preview](#)  [PDF \(537 K\)](#) | [Related Articles](#)
30.  **Increasing the sensitivity of the spectrophotometric determinations of the oxygen content in YBCO superconducting samples using the I_3^- -starch compound**
Pages 1745-1747
Tsvetanka K. Nedeltcheva, Stela Iv. Georgieva, Latinka K. Vladimirova, Angelina K. Stoyanova-Ivanova
 [Preview](#)  [PDF \(215 K\)](#) | [Related Articles](#)
31.  **Infrared study of aging of edible oils by oxidative spectroscopic index and MCR-ALS chemometric method**
Pages 1748-1756
Y. Le Dréau, N. Dupuy, J. Artaud, D. Ollivier, J. Kister
 [Preview](#)  [PDF \(1114 K\)](#) | [Related Articles](#)

32.  **Thermally induced electrode protection against biofouling**
Pages 1757-1760
Heiko Duwensee, Terannie Vázquez-Alvarez, Gerd-Uwe Flechsig, Joseph Wang
 [Preview](#)  [PDF \(245 K\)](#) | [Related Articles](#)
33.  **Diimine ligand as a novel chemiluminescence enhancer of luminol-containing compounds**
Pages 1761-1766
Chaivat Smanmoo, Mutsumi Yamasuji, Tomoko Sagawa, Takayuki Shibata, Tsutomu Kabashima, De-Qi Yuan, Kahee Fujita, Masaaki Kai
 [Preview](#)  [PDF \(704 K\)](#) | [Related Articles](#)
34.  **Immobilization of trypsin on silica-coated fiberglass core in microchip for highly efficient proteolysis**
Pages 1767-1773
Ting Liu, Sheng Wang, Gang Chen
 [Preview](#)  [PDF \(957 K\)](#) | [Related Articles](#)
35.  **Preconcentration of nickel and cadmium by TiO₂ nanotubes as solid-phase extraction adsorbents coupled with flame atomic absorption spectrometry**
Pages 1774-1777
Qing-xiang Zhou, Xin-ning Zhao, Jun-ping Xiao
 [Preview](#)  [PDF \(278 K\)](#) | [Related Articles](#)
36.  **Comparison of tungsten coil electrothermal vaporization and thermospray sample introduction methods for flame furnace atomic absorption spectrometry**
Pages 1778-1782
Peng Wu, Yunchang Zhang, Rui Liu, Yi Lv, Xiandeng Hou
 [Preview](#)  [PDF \(176 K\)](#) | [Related Articles](#)
37.  **Development of a highly sensitive and specific monoclonal antibody-based enzyme-linked immunosorbent assay (ELISA) for detection of Sudan I in food samples**
Pages 1783-1789
Yuzhen Wang, Dapeng Wei, Hong Yang, Yuan Yang, Weiwei Xing, Yuan Li, Anping Deng
 [Preview](#)  [PDF \(355 K\)](#) | [Related Articles](#)
38.  **A simple capillary electrophoresis with electrochemical detection method for determination of the hydrolysis rate constant of chlorogenic acid**
Pages 1790-1794
Ping Tong, Lan Zhang, Yu He, Yuwu Chi, Guonan Chen
 [Preview](#)  [PDF \(335 K\)](#) | [Related Articles](#)
39.  **Characterization of 2-phenylbenzo[g]quinoxaline derivatives as viscosity-sensitive fluorescent probes**
Pages 1795-1799
Ke Wang, Wen Shi, Jia Jia, Suming Chen, Huimin Ma
 [Preview](#)  [PDF \(495 K\)](#) | [Related Articles](#)
40.  **Studies on the aconitine-type alkaloids in the roots of *Aconitum Carmichaeli* Debx. by HPLC/ESIMS/MSⁿ**
Pages 1800-1807
Hao Yue, Zifeng Pi, Fengrui Song, Zhiqiang Liu, Zongwei Cai, Shuying Liu
 [Preview](#)  [PDF \(616 K\)](#) | [Related Articles](#)

41.  **Fluorescence detection of total count of *Escherichia coli* and *Staphylococcus aureus* on water-soluble CdSe quantum dots coupled with bacteria**
Pages 1808-1813
Xiuheng Xue, Jian Pan, Huiming Xie, Juhua Wang, Shuang Zhang
 [Preview](#)  [PDF \(800 K\)](#) | [Related Articles](#)
42.  **Sensing parts per million levels of gaseous NO₂ by a optical fiber transducer based on calix[4]arenes**
Pages 1814-1820
Shin-Ichi Ohira, Eranda Wanigasekara, Dmitry M. Rudkevich, Purnendu K. Dasgupta
 [Preview](#)  [PDF \(944 K\)](#) | [Supplementary Content](#)  | [Related Articles](#)
43.  **Determination of soluble ions and elements in ambient air suspended particulate matter: Inter-technique comparison of XRF, IC and ICP for sample-by-sample quality control**
Pages 1821-1829
S. Canepari, C. Perrino, M.L. Astolfi, M. Catrambone, D. Perret
 [Preview](#)  [PDF \(701 K\)](#) | [Related Articles](#)
44.  **Evaluation of the arsenic binding capacity of plant proteins under conditions of protein extraction for gel electrophoretic analysis**
Pages 1830-1836
Anne-Christine Schmidt, Sandra Steier, Matthias Otto
 [Preview](#)  [PDF \(539 K\)](#) | [Related Articles](#)
45.  **Bioaerosols chemometric characterization by laser-induced fluorescence: Air sample analysis**
Pages 1837-1842
Susana Cabredo, Alejandro Parra, Cecilia Sáenz, Jesús Anzano
 [Preview](#)  [PDF \(621 K\)](#) | [Related Articles](#)
46.  **Lipoic acid–palladium complex interaction with DNA, voltammetric and AFM characterization**
Pages 1843-1853
Oana Corduneanu, Ana-Maria Chiorcea-Paquim, Merrill Garnett, Ana Maria Oliveira-Brett
 [Preview](#)  [PDF \(5450 K\)](#) | [Related Articles](#)
47.  **Dispersive liquid–liquid microextraction preconcentration of palladium in water samples and determination by graphite furnace atomic absorption spectrometry**
Pages 1854-1857
Pei Liang, Ehong Zhao, Feng Li
 [Preview](#)  [PDF \(205 K\)](#) | [Related Articles](#)
48.  **Glutathione-capped CdTe quantum dots for the sensitive detection of glucose**
Pages 1858-1863
Jipei Yuan, Weiwei Guo, Jianyuan Yin, Erkang Wang
 [Preview](#)  [PDF \(467 K\)](#) | [Related Articles](#)
49.  **Thermo-reversibility of the fluorescence enhancement of acridine orange induced by supramolecular self-assembly**
Pages 1864-1868
Hong Wang, Weiping Zhang, Xueling Dong, Yajiang Yang
 [Preview](#)  [PDF \(318 K\)](#) | [Related Articles](#)


Short Communications

50.  **Development and validation of LC methods with visible detection using pre-column derivatization and mass detection for the assay of voglibose**

Pages 1869-1872



Nanduri V.V.S.S. Raman, Kura Ratnakar Reddy, Adapa V.S.S. Prasad, Karipeddi Ramakrishna

 [Preview](#)  [PDF \(336 K\)](#) | [Related Articles](#)

51.  **Preliminary evaluation of monolithic column high-performance liquid chromatography with tris(2,2'-bipyridyl)ruthenium(II) chemiluminescence detection for the determination of quetiapine in human body fluids**

Pages 1873-1876


Sara A. Bellomarino, Allyson J. Brown, Xavier A. Conlan, Neil W. Barnett

 [Preview](#)  [PDF \(325 K\)](#) | [Related Articles](#)

52.  **A sequential extraction procedure for an insight into selenium speciation in garlic**

Pages 1877-1882

Sandra Mounicou, Mihaly Dernovics, Katarzyna Bierla, Joanna Szpunar

 [Preview](#)  [PDF \(609 K\)](#) | [Related Articles](#)

articles 1 - 52

[Home](#)

[Browse](#)

[Search](#)

[My Settings](#)

[Alerts](#)

[Help](#)



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

Copyright © 2009 Elsevier B.V. All rights reserved. ScienceDirect® is a registered trademark of Elsevier B.V.