

**Talanta**

Copyright © 2011 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](#)[Add to Favorites](#)

< Previous vol/iss | Next vol/iss >

Font Size: A⁺ A⁻[Add to my Quick Links](#)

Volume 83, Issue 4, Pages 1067-1316 (30 January 2011)

Enhancing Chemical Separations with Chemometric Data Analysis

Edited by Robert E. Synovec

= Full-text available
 = Abstract only

Articles in Press

- [Volume 83 \(2010 - 2011\)](#)
- [Volume 83, Issue 5](#)
pp. 1317-1784 (15 February 2011)
- [Volume 83, Issue 4](#)
pp. 1067-1316 (30 January 2011)
Enhancing Chemical Separations with Chemometric Data Analysis
- [Volume 83, Issue 3](#)
pp. 691-1066 (15 January 2011)
- [Volume 83, Issue 2](#)
pp. 299-690 (15 December 2010)
- [Volume 83, Issue 1](#)
pp. 1-298 (15 November 2010)
- [Volume 82 \(2010\)](#)
- [Volume 81 \(2010\)](#)
- [Volume 80 \(2009 - 2010\)](#)
- [Volume 79 \(2009\)](#)
- [Volume 78 \(2009\)](#)
- [Volume 77 \(2008 - 2009\)](#)
- [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 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 \(1999\)](#)

[E-mail articles](#) | [Export citations](#) | [PDF downloader](#) | [Open all previews](#) articles 1 - 31

1 **Editorial Board**

Page CO2

[Show preview](#) | [PDF \(43 K\)](#) | [Related articles](#) | [Related reference work articles](#)2 **Preface**

Page 1067

[Show preview](#) | [PDF \(64 K\)](#) | [Related articles](#) | [Related reference work articles](#)3 **Dependence on effective saturation of numbers of singlet peaks in one- and two-dimensional separations**Original Research Article
Pages 1068-1073

Joe M. Davis

[Show preview](#) | [PDF \(326 K\)](#) | [Related articles](#) | [Related reference work articles](#)4 **Estimation of chromatographic peak shape parameters in Fourier domain**Original Research Article
Pages 1074-1078

Attila Felinger

[Show preview](#) | [PDF \(408 K\)](#) | [Related articles](#) | [Related reference work articles](#)5 **Cluster resolution: A metric for automated, objective and optimized feature selection in chemometric modeling**Original Research Article
Pages 1079-1087

Nikolai A. Sinkov, James J. Harynuk

[Show preview](#) | [PDF \(838 K\)](#) | [Related articles](#) | [Related reference work articles](#)6 **Methods for the exploratory analysis of two-dimensional chromatographic signals**Original Research Article
Pages 1088-1097

M. Daszykowski, B. Walczak

[Show preview](#) | [PDF \(939 K\)](#) | [Related articles](#) | [Related reference work articles](#)7 **Chemometric strategies for enhancing the chromatographic methodologies with second-order data analysis of compounds when peaks are overlapped**Original Research Article
Pages 1098-1107

H.C. Goicoechea, M.J. Culzoni, M.D. Gil Garcia, M. Martinez Galera

[Show preview](#) | [PDF \(838 K\)](#) | [Related articles](#) | [Related reference work articles](#)8 **Peak alignment using wavelet pattern matching and differential evolution**Original Research Article
Pages 1108-1117

Zhi-Min Zhang, Shan Chen, Yi-Zeng Liang

[Show preview](#) | [PDF \(1325 K\)](#) | [Related articles](#) | [Related reference work articles](#)9 **Models for liquid-liquid partition in the system formamide-organic solvent and their use for estimating descriptors for organic compounds**Original Research Article
Pages 1118-1125

Thushara Karunasekara, Colin F. Poole

[Show preview](#) | [PDF \(228 K\)](#) | [Related articles](#) | [Related reference work articles](#)

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)
10 Effect of chromatographic parameters and detector settings on the response of HILIC-evaporative light-scattering detection system using experimental design approach and multicriteria optimization methodology Original Research Article Pages 1126-1133 Andreas E. Karatapanis, Yiannis C. Fiamegos, Vasilios A. Sakkas, Constantine D. Stalikas Show preview PDF (1871 K) Supplementary content Related articles Related reference work articles
11 Comprehensive description of the photodegradation of bromophenols using chromatographic monitoring and chemometric tools Original Research Article Pages 1134-1146 Silvia Mas, Albert Carbó, Silvia Lacorte, Anna de Juan, Romà Tauler Show preview PDF (1645 K) Related articles Related reference work articles
12 Outlier detection for the Generalized Rank Annihilation Method in HPLC-DAD analysis Original Research Article Pages 1147-1157 Joan Ferré, Enric Comas Show preview PDF (2155 K) Related articles Related reference work articles
13 Science based calibration for the extraction of 'analyte-specific' HPLC-DAD chromatograms in environmental analysis Original Research Article Pages 1158-1165 J. Kuligowski, M. Martínez Galera, M.D. Gil García, M.J. Culzoni, H.C. Goicoechea, S. Garrigues, G. Quintás, M. de la Guardia Show preview PDF (834 K) Related articles Related reference work articles
14 Anionic forensic signatures for sample matching of potassium cyanide using high performance ion chromatography and chemometrics Original Research Article Pages 1166-1172 Carlos G. Fraga, Orville T. Farmer, April J. Carman Show preview PDF (458 K) Related articles Related reference work articles
15 Multivariate curve-resolution analysis of pesticides in water samples from liquid chromatographic-diode array data Original Research Article Pages 1173-1180 Rubén M. Maggio, Patricia C. Damiani, Alejandro C. Olivieri Show preview PDF (528 K) Related articles Related reference work articles
16 Use of multivariate statistical techniques to optimize the simultaneous separation of 13 phenolic compounds from extra-virgin olive oil by capillary electrophoresis Original Research Article Pages 1181-1187 Cristiano Augusto Ballus, Adriana Dillenburg Meinhart, Roy Edward Bruns, Helena Teixeira Godoy Show preview PDF (223 K) Related articles Related reference work articles
17 Pressurized capillary electrochromatography in a screening for possible antioxidant molecules in <i>Mallotus</i> fingerprints: Challenges, potentials and prospects Original Research Article Pages 1188-1197 S. Pieters, C. Tistaert, G. Alaerts, K. Bodzioch, D. Mangelings, B. Dejaegher, C. Rivière, N. Nguyen Hoai, M. Chau Van, J. Quétin-Leclercq, Y. Vander Heyden Show preview PDF (834 K) Related articles Related reference work articles
18 Dissimilar chromatographic systems to indicate and identify antioxidants from <i>Mallotus</i> species Original Research Article Pages 1198-1208 C. Tistaert, B. Dejaegher, G. Chataigné, C. Van Minh, J. Quétin-Leclercq, Y. Vander Heyden Show preview PDF (619 K) Related articles Related reference work articles
19 Data processing pipelines for comprehensive profiling of proteomics samples by label-free LC-MS for biomarker discovery Original Research Article Pages 1209-1224 Christin Christin, Rainer Bischoff, Péter Horváthovich Show preview PDF (1860 K) Related articles Related reference work articles
20 2D autocovariance function for comprehensive analysis of two-way GC-MS data matrix: Application to environmental samples Original Research Article Pages 1225-1232 Maria Chiara Pietrogrande, Dimitri Bacco, Nicola Marchetti, Mattia Mercuriali, Gaetano Zanghirati Show preview PDF (1068 K) Related articles Related reference work articles
21 Identification of the geometrical isomers of α-linolenic acid using gas chromatography/mass spectrometry with a binary decision tree Original Research Article Pages 1233-1238 Leila Hejazi, David Brynn Hibbert, Diako Ebrahimi Show preview PDF (334 K) Related articles Related reference work articles
22 Relating gas chromatographic profiles to sensory measurements describing the end products of the Maillard reaction Original Research Article Pages 1239-1246 I. Stanimirova, C. Boucon, B. Walczak Show preview PDF (624 K) Related articles Related reference work articles
23 Rapid analysis of multicomponent pesticide mixture by GC-MS with the aid of chemometric resolution Original Research Article Pages 1247-1253 Lingni Miao, Wensheng Cai, Xueguang Shao Show preview PDF (737 K) Related articles Related reference work articles

- 24 **Predicting percent composition of blends of biodiesel and conventional diesel using gas chromatography–mass spectrometry, comprehensive two-dimensional gas chromatography–mass spectrometry, and partial least squares analysis** Original Research Article
Pages 1254-1259
Karisa M. Pierce, Stephen P. Schale
 PDF (664 K) | Related articles | Related reference work articles
- 25 **Classification of jet fuels by fuzzy rule-building expert systems applied to three-way data by fast gas chromatography–fast scanning quadrupole ion trap mass spectrometry** Original Research Article
Pages 1260-1268
Xiaobo Sun, Carolyn M. Zimmermann, Glen P. Jackson, Christopher E. Bunker, Peter B. Harrington
 PDF (619 K) | Related articles | Related reference work articles
- 26 **Self-Organizing Maps and Support Vector Regression as aids to coupled chromatography: Illustrated by predicting spoilage in apples using volatile organic compounds** Original Research Article
Pages 1269-1278
Sim S. Fong, Virág Sági-Kiss, Richard G. Brereton
 PDF (2207 K) | Related articles | Related reference work articles
- 27 **Informatics for cross-sample analysis with comprehensive two-dimensional gas chromatography and high-resolution mass spectrometry (GCxGC–HRMS)** Original Research Article
Pages 1279-1288
Stephen E. Reichenbach, Xue Tian, Qingping Tao, Edward B. Ledford Jr., Zhanpin Wu, Oliver Fiehn
 PDF (2108 K) | Related articles | Related reference work articles
- 28 **Application of parallel computing to speed up chemometrics for GC × GC–TOFMS based metabolic fingerprinting** Original Research Article
Pages 1289-1294
Thomas Gröger, Ralf Zimmerman
 PDF (936 K) | Related articles | Related reference work articles
- 29 **The discriminant pixel approach: A new tool for the rational interpretation of GCxGC-MS chromatograms** Original Research Article
Pages 1295-1301
Jérôme Vial, Benoît Pezous, Didier Thiébaut, Patrick Sassi, Béatrice Teillet, Xavier Cahours, Isabelle Rivals
 PDF (1360 K) | Related articles | Related reference work articles
- 30 **Quantitative analysis by comprehensive two-dimensional gas chromatography using interval Multi-way Partial Least Squares calibration** Original Research Article
Pages 1302-1307
Luiz Antonio Fonseca de Godoy, Marcio Pozzobon Pedroso, Leandro Wang Hantao, Ronel Jesus Poppi, Fabio Augusto
 PDF (476 K) | Related articles | Related reference work articles
- 31 **Analysis of chemical signals in red fire ants by gas chromatography and pattern recognition techniques** Original Research Article
Pages 1308-1316
Barry K. Lavine, Nikhil Mirjankar, Robert K. Vander Meer
 PDF (1338 K) | Related articles | Related reference work articles

articles 1 - 31

< Previous vol/iss | Next vol/iss >

[Home](#) [Browse](#) [Search](#) [My settings](#) [My alerts](#)[Help](#)

[About ScienceDirect](#)
[What is ScienceDirect](#)
[Content details](#)
[Set up](#)
[How to use](#)
[Subscriptions](#)
[Developers](#)

[Contact and Support](#)
[Contact and Support](#)

[About Elsevier](#)
[About Elsevier](#)
[About SciVerse](#)
[About SciVal](#)
[Terms and Conditions](#)
[Privacy policy](#)
[Information for advertisers](#)



Copyright © 2011 Elsevier B.V. All rights reserved. SciVerse® is a registered trademark of Elsevier Properties S.A., used under license. ScienceDirect® is a registered trademark of Elsevier B.V.