

Bibliography of analytical, nutritional and clinical methods

(3 weeks journals. Search completed at 9th Aug. 2006)

1. Books, reviews & symposia

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Hair analysis for veterinary drug monitoring in livestock production
Mato I, Huidobro JF*, Simal-Lozano J, Sancho MT// *Univ Santiago de Compostela, Fac Farm, Dept Quim Anal Nutr & Bromatol, Area Nutr & Bromatol, ES-15782 Santiago de Compostela, Spain
Crit Rev Anal Chem 2006 **36** (1) 3
Analytical methods for the determination of organic acids in honey

2. General

Phillips KM, Patterson KY, Rasor AS, Exler J, Haytowitz DB, Holden JM, Pehrsson PR// Virginia Polytech Inst & State Univ, Biochem Dept 0308, Blacksburg, Va 24061, USA
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4. Carbohydrates

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J Agric Food Chem 2006 **54** (8) 2810
Comparison of the HPLC method and FT-NIR analysis for quantification of glucose, fructose, and sucrose in intact apple fruits

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Determination of beef tallow in lard through a multidimensional off-line non-aqueous reversed phase-argentation LC method coupled to mass spectrometry
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Human vitamin B₁₂ absorption measurement by accelerator mass spectrometry using specifically labeled ¹⁴C-cobalamin

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Anal Chim Acta 2006 **562** (2) 185
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Ocana AB, De los Angeles M, Trevino PO// Natl Autonomous Univ Mexico, Fac Quim, Lab Metrol, MX-04510 Mexico City, DF, Mexico

Accredit Qual Assur 2006 **11** (1-2) 63

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Romeu-Nadal M, Morera-Pons S, Castellote AI, Lopez-Sabater MC*// *Univ Barcelona, Fac Farm, Dept Nutr & Bromatol, Ctr Referencia Tecnol Aliments, ES-08028 Barcelona, Spain

J Chromatogr A 2006 **1114** (1) 132

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Smith DEC, Kok RM, Teerlink T, Jakobs C, Smulders YM*// *VU Univ Med Ctr, Dept Internal Med, ICAr-VU, POB 7057, NL-1007 MB Amsterdam, The Netherlands

Clin Chem Lab Med 2006 **44** (4) 450

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7. Trace elements & minerals

Chandra GP, Seshiaiah K*, Rao YK, Wang MC*// *Sri Venkateswara Univ, Dept Chem, Div Anal Chem, IN-517502 Tirupati, India
J Agric Food Chem 2006 **54** (8) 2868

Solid phase extraction of Cd, Cu, and Ni from leafy vegetables and plant leaves using amberlite XAD-2 functionalized with 2-hydroxy-acetophenone-

As a service to subscribers of Food Chemistry, this bibliography contains newly published material in the field of analytical, nutritional and clinical methods. The bibliography is divided into fourteen sections: 1 Books, reviews & symposia; 2 General; 3 Amino acids, proteins & enzymes; 4 Carbohydrates; 5 Lipids; 6 Vitamins & co-factors; 7 Trace elements & minerals; 8 Drug, biocide & processing residues; 9 Toxins/Allergens; 10 Additives; 11 Flavours & aromas; 12 Organic acids; 13 Animal products; 14 Plant & microbial products. Within each section, articles are listed in alphabetical order with respect to the author. Where there are no papers to appear under a heading, it will be omitted.

thiosemicarbazone (HAPTSC) and determination by inductively coupled plasma atomic emission spectroscopy

Da Silva EGP, Santos ACD, Costa ACS, Fortunato DMD, Jose NM, Korn MGA, Dos Santos WNL, Ferreira SLC*// *Univ Fed Bahia, Inst Quim, Campus Univ Ondina, BR-40170-290 Salvador, BA, Brazil
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Microchem J 2006 **82** (2) 168

Comparative study of conventional and multivariate methods for aluminum determination in soft drinks by graphite furnace atomic absorption spectrometry

Dias VMC, Cardoso ASB// Fund Ciencia & Tecnol-CIENTEC, 675 Rua Washington Luiz, BR-90010-460 Porto Alegre, RS, Brazil.
Food Addit Contam 2006 **23** (5) 479

The determination of lead in sugar and sweets without digestion by electrothermal atomic absorption spectrometry (ETAAS) with a rhodium chemical modifier

Donati GL, Nascentes CC, Nogueira ARA, Arruda MAZ, Nobrega JS*// *Univ Fed Sao Carlos, Dept Quim, Grp Analise Instrumental Aplicada, Caixa Postal 676, BR-13560-970 Sao Carlos, SP, Brazil
Microchem J 2006 **82** (2) 189

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Haouet MN, Chessa G, Fioroni L, Galarini R*// *Ist Zooprofilattico Sperimentale Umbria & Marche, Via G Salvemini, IT-10126 Turin, Italy
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Estimation of uncertainty for the determination of mercury in food by CVAAS

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Validation of the Volhard method for chloride determination in food

Palacios O, Encinar JR, Schaumlöffel D, Lobinski R*// *UMR CNRS 5034, Equipe Chim Anal Bioinorgan, Helioparc 2, Av Pr Angot, FR-64053 Pau, France
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Fractionation of selenium-containing proteins in serum by multiaffinity liquid chromatography before size-exclusion chromatography-ICPMS

Shao LJ, Gan WE*, Su QD// *Univ Sci & Technol China, Dept Chem, CN-230026 Hefei, Anhui, Peoples Rep China
Anal Chim Acta 2006 **562** (1) 128

Determination of total and inorganic mercury in fish samples with on-line oxidation coupled to atomic fluorescence spectrometry

Zikovsky L// Ecole Polytech, Dept Engr Phys, Nucl Engr Inst, Montreal, Quebec, Canada H3C 3A7
J Radioanal Nucl Chem 2006 **267** (3) 695

Determination of uranium in food in Quebec by neutron activation analysis

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Ake M, Traore HI, Malan AK// UFR Sci Pharmaceut & Biol, Lab Chim Anal, BP V34, Abidjan 01, Cote Ivoire

Sci Aliment 2006 **26** (2) 181
Liquid chromatographic determination of benzylpenicillin residues in milk (French, English Abstract)

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Daeseleire E, Mortier L, Delahaut P, Huyghebaert G// Minist Flemish Community, Dept Anim Prod Qual & Transformat Technol, Agr Res Ctr Ghent, BE-9090 Melle, Belgium
Accredit Qual Assur 2006 **11** (1-2) 44

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Diaz TG, Guibertau A, Soto MDL, Ortiz JM// Univ Extremadura, Dept Anal Chem, Av Elvas s/n, ES-06071 Badajoz, Spain
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Determination of dimethoate in olive oil by adsorptive stripping square-wave voltammetry

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J Chromatogr A 2006 **1113** (1-2) 191
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Gokmen V, Senyuva HZ// Hacettepe Univ, Dept Food Engr, TR-06532 Ankara, Turkey

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Improved method for the determination of hydroxymethylfurfural in baby foods using liquid chromatography-mass spectrometry

Heller DN, Smith ML, Chiesa OA// FDA Ctr Vet Med, Off Res, 8401 Muirkirk Rd, Laurel, Md 20708, USA

Rapid Commun Mass Spectrom 2006 **20** (2) 321
Detection of penicillin residues in bovine oral fluid (saliva) by liquid chromatography/tandem mass spectrometry (Letter)

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Anal Chim Acta 2006 **562** (2) 176
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Huet AC, Charlier C, Tittlemier SA, Singh G, Benrejeb S, Delahaut P*// *Lab Hormonal Anim, Ctr Econ Rurale, rue Pt Jour 8, BE-6900 Marloie, Belgium
J Agric Food Chem 2006 **54** (8) 2822

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Pang GF, Liu YM, Fan CL, Zhang JJ, Cao YZ, Li XM, Li ZY, Wu YP, Guo TT// Qinhuangdao Entry Exit Inspect & Quarantine Bureau, 39 Haibin Rd, CN-066002 Qinhuangdao, Hebei, Peoples Rep China

Anal Bioanal Chem 2006 **384** (6) 1366
Simultaneous determination of 405 pesticide residues in grain by accelerated solvent extraction then gas chromatography-mass spectrometry or liquid chromatography-tandem mass spectrometry

Rokka M, Peltonen K// Natl Vet & Food Res Inst, Dept Chem & Toxicol, Helsinki, Finland

Food Addit Contam 2006 **23** (5) 470
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Scippo ML, Rybertt S, Eppe G, Massart AC, De Pauw E, Maghuin-Rogister G// Univ Liege, CART Lab Anal Foodstuffs Anim Origin, Blvd Colonster 43bis Sart Tilman, BE-4000 Liege, Belgium

Accredit Qual Assur 2006 **11** (1-2) 38
Dioxin analysis in feed: Cell-based assay versus mass spectrometry method

Shimoyama Y, Ukai M, Nakamura H// Muroan Inst Technol, Dept Mat Sci & Engr, Muroan, Hokkaido 050 858, Japan

Spectrochim Acta A Mol Biol Spectrosc 2006 **63** (4) 888
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Verdon E, Hurtaud-Pessel D, Sanders P// AFSSA, Lab Etud & Rech Medicaments Vet & Desinfectants, BP 90230, FR-35302 Fougeres, France

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Evaluation of the limit of performance of an analytical method based on a statistical calculation of its critical concentrations according to ISO standard 11843: Application to routine control of banned veterinary drug residues in food according to European Decision 657/2002/EC

Wang J, Leung D, Lenz SP// Canadian Food Inspect Agcy, Calgary Lab, 3650 36th St NW, Calgary, Alberta, Canada T2L 2L1

J Agric Food Chem 2006 **54** (8) 2873
Determination of five macrolide antibiotic residues in raw milk using liquid chromatography-electrospray ionization tandem mass spectrometry

Yordanov ND, Pachova Z// Bulgarian Acad Sci, Inst Catalysis, Lab EPR, BU-1113 Sofia, Bulgaria

Spectrochim Acta A Mol Biol Spectrosc 2006 **63** (4) 891
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Accredit Qual Assur 2006 **11** (1-2) 10
Estimation of measurement uncertainty for the determination of aflatoxin M₁ in milk using immunoaffinity clean-up procedures

Kondo K, Watanabe A, Iwanaga Y, Abe I, Tanaka H, Nagaoka MH, Akiyama H, Maitani T// Natl Inst Hlth Sci, Div Foods, Kamiyoga 1-18-1, Tokyo 158 8501, Japan

J Chromatogr B 2006 **834** (1-2) 55

Analysis of agaritine in mushrooms and in agaritine-administered mice using liquid chromatography–tandem mass spectrometry

Kvasnicka F, Sevcik R, Voldrich M// Inst Chem Technol, Dept Food Preservat & Meat Technol, Tech 3, CZ-16628 Prague 6, Czech Republic

J Chromatogr A 2006 **1113** (1-2) 255

Determination of domoic acid by on-line coupled capillary isotachopheresis with capillary zone electrophoresis

Milanez TV, Valente-Soares LM// Inst Adolfo Lutz Registro, Secao Aditivos & Residuos Pesticidas, Av Dr Arnaldo 355, BR-03146-902 Sao Paulo, SP, Brazil

J Brazil Chem Soc 2006 **17** (2) 412

Gas chromatography–mass spectrometry determination of trichothecene mycotoxins in commercial corn harvested in the state of Sao Paulo, Brazil

Mohamed R, Gremaud E, Richoz-Payot J, Tabet JC, Guy PA// *Nestec Ltd, Nestle Res Ctr, Dept Qual & Safety Assurance, Vers-chez-les-Blanc, POB 44, CH-1000 Lausanne 26, Switzerland

J Chromatogr A 2006 **1114** (1) 62

Quantitative determination of five ergot alkaloids in rye flour by liquid chromatography–electrospray ionisation tandem mass spectrometry

Osnaya LG, Del Castillo JMS*, Cortes JCM, Vinuesa JM// *Univ Valencia, Fac Pharm, Lab Food Chem & Toxicol, Av Vicent Andres Estelles s/n, ES-46100 Burjassot, Spain

J Chromatogr A 2006 **1113** (1-2) 32

Extraction and analysis of ochratoxin A in bread using pressurised liquid extraction and liquid chromatography

10. Additives

Dong CZ, Wang WF// Hubei Coll Tradional Chinese Med, Dept Sanit Technol, Ziyang Rd 275, CN-430064 Wuhan, Peoples Rep China

Anal Chim Acta 2006 **562** (1) 23

Headspace solid-phase microextraction applied to the simultaneous determination of sorbic and benzoic acids in beverages

Nhujak T, Saisuwan W, Srisa-Art M, Petsom A// Chulalongkorn Univ, Fac Sci, Dept Chem, Chromatog & Separat Res Grp, TH-10330 Bangkok, Thailand

J Sep Sci 2006 **29** (5) 666

Microemulsion electrokinetic chromatography for separation and analysis of curcuminoids in turmeric samples

Wang JP, Zhang SX, Shen JZ// *China Agr Univ, Coll Vet Med, Dept Vet Pharmacol & Toxicol, CN-100094 Beijing, Peoples Rep China

J Anim Sci 2006 **84** (5) 1248

A monoclonal antibody-based immunoassay for determination of ractopamine in swine feeds

Weisz A, Wright PR, Andrzejewski D, Meyers MB, Glaze K, Mazzola EJ// US/FDA, Ctr Food Safety & Appl Nutr, Off Cosmet & Colors, College Park, Md 20740, USA

J Chromatogr A 2006 **1113** (1-2) 186

Identification of the decarboxylated analog of tetrabromotetrachloro-fluorescein and its quantification in the color additives D&C Red Nos. 27 and 28 (phloxine B) using high-performance liquid chromatography

11. Flavours & aromas

Abayomi LA, Terry LA*, White SF, Warner PJ// *Cranfield Univ, Plant Sci Lab, Bedford MK45 4DT, England

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Development of a disposable pyruvate biosensor to determine pungency in onions (*Allium cepa* L.)

Blanch GP, Del Castillo MLR// Inst Fermentaciones Ind - CSIC, C/ Juan Cierva 3, ES-28006 Madrid, Spain

J Sep Sci 2006 **29** (5) 691

Semipreparative-scale gas-chromatographic separation of fibertone enantiomers

Cadot Y, Castello MTM, Chevalier A// Natl Inst Agr Res, Grapevine & Wine Expt Unit, Angers Res Ctr, 42 rue George Morel, BP 60057, FR-49071 Beauzeuze, France

Anal Chim Acta 2006 **563** (1-2) 65

Flavan-3-ol compositional changes in grape berries (*Vitis vinifera* L. cv Cabernet Franc) before veraison, using two complementary analytical approaches, HPLC reversed phase and histochemistry

Campo E, Ferreira V*, Escudero A, Marques JC, Cacho J// *Univ Zaragoza, Fac Sci, Dept Anal Chem, Lab Flavor Analysis & Enol, ES-50009 Zaragoza, Spain

Anal Chim Acta 2006 **563** (1-2) 180

Quantitative gas chromatography–olfactometry and chemical quantitative study of the aroma of four Madeira wines

Cimato A, Dello Monaco D, Distante C, Epifani M, Siciliano P, Taurino AM*, Zuppa M, Sani G// *Univ Lecce, CNR-IMM, NCR Microelect & Microsyst Inst, Via Arnesano, A3 Bldg, IT-73100 Lecce, Italy

Sensor Actuator B-Chem 2006 **114** (2) 674

Analysis of single-cultivar extra virgin olive oils by means of an electronic nose and HS-SPME/GC/MS methods

Coelho E, Rocha SM*, Delgado I, Coimbra MA// *Univ Aveiro, Dept Quim, PT-3810-193 Aveiro, Portugal

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Headspace-SPME applied to varietal volatile components evolution during *Vitis vinifera* L. cv. 'Baga' ripening

Cozzolino D, Smyth HE, Lattey KA, Cynkar W, Janik L, Damberg RG, Francis JL, Gishen M// Australian Wine Res Inst, Waite Rd, Urrbrae, POB 197, Adelaide, SA 5064, Australia

Anal Chim Acta 2006 **563** (1-2) 319

Combining mass spectrometry based electronic nose, visible-near infrared spectroscopy and chemometrics to assess the sensory properties of Australian Riesling wines

Cullere L, Cacho J, Ferreira V// *Univ Zaragoza, Fac Sci, Dept Anal Chem, ES-50009 Zaragoza, Spain

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Validation of an analytical method for the solid phase extraction, in cartridge derivatization and subsequent gas chromatographic-ion trap tandem mass spectrometric determination of 1-octen-3-one in wines at ngL⁻¹ level

Hattori S, Takagaki H, Fujimori T// Soda Aromatic Co Ltd, Anal Res Dept, 1573-4 Funakata, Noda, Chiba 270 0233, Japan

Food Sci Technol Res 2005 **11** (2) 171

Identification of volatile compounds which enhance odor notes in Japanese green tea using the OASIS (original aroma simultaneously input to the sniffing port) method

Jung MJ, Shin YJ, Oh SY, Kim NS, Kim K, Lee DS// *Seoul Womens Univ, Dept Chem, Seoul 139 774, South Korea

Bull Korean Chem Soc 2006 **27** (2) 231

Headspace hanging drop liquid phase microextraction and gas chromatography–mass spectrometry for the analysis of flavors from clove buds

Ragazzo-Sanchez JA, Chalier P*, Chevalier D, Ghommidh C// *Univ Montpellier II, Dept Agro-ressources & Procedes Biol, cc 23, Ple Bataillon, FR-34095 Montpellier 5, France

Sensor Actuator B-Chem 2006 **114** (2) 665

Electronic nose discrimination of aroma compounds in alcoholised solutions

Schafer T, Serrano-Santos MB, Rocchi S, Fuoco R// Univ Pisa, Dipt Chim & Chim Ind, Via Risorgimento 35, IT-56126 Pisa, Italy

Anal Bioanal Chem 2006 **384** (4) 860

Pervaporation membrane separation process for enhancing the selectivity of an artificial olfactory system ("electronic nose")

Sharma A, Verma SC, Saxena N, Chadda N, Singh NP, Sinha AK// *Inst Himalayan Bioresource Technol, Natl Plant Prod Div, Post Box 6, IN-176061 Palampur, India

J Sep Sci 2006 **29** (5) 613

Microwave- and ultrasound-assisted extraction of vanillin and its quantification by high-performance liquid chromatography in *Vanilla planifolia*

Sousa ET, Rodrigues FD, Martins CC, De Oliveira FS, Pereira PAD, De Andrade JB// *Univ Fed Bahia, Inst Quim, Campus Univ Ondina, BR-40170-290 Salvador, BA, Brazil

Microchem J 2006 **82** (2) 142

Multivariate optimization and HS-SPME/GC-MS analysis of VOCs in red, yellow and purple varieties of *Capsicum chinense* sp peppers

Stark T, Justus H, Hofmann T// *Univ Munster, Inst Lebensmittel-Chem, Corrensstr 45, DE-48149 Munster, Germany

J Agric Food Chem 2006 **54** (8) 2859

Quantitative analysis of *N*-phenylpropenoyl-L-amino acids in roasted coffee and cocoa powder by means of a stable isotope dilution assay

13. Animal products

Karoui R, Mouazen AM, Ramon H, Schoonheydt R, De Baerdemaeker J// Katholieke Univ Leuven, Dept Biosyst, Div Mechatron Biostat & Sensors, Mebios, Kasteelpk Arenberg 30, BE-3001 Louvain, Belgium

Food Res Int 2006 **39** (5) 588

Feasibility study of discriminating the manufacturing process and sampling zone in ripened soft cheeses using attenuated total reflectance MIR and fiber optic diffuse reflectance VIS-NIR spectroscopy

14. Plant & microbial products

Baleiras-Couto MM, Eiras-Dias JE// INIAP, Estacao Vitivinicola Nacl, Quinta Almoinha, PT-2565-191 Dois Portos, Portugal

Anal Chim Acta 2006 **563** (1-2) 283

Detection and identification of grape varieties in must and wine using nuclear and chloroplast microsatellite markers

Clark S, Barnett NW, Adams M, Cook IB, Dyson GA, Johnston G// Deakin Univ, Sch Biol & Chem Sci, Geelong, Vic 3217, Australia

Anal Chim Acta 2006 **563** (1-2) 338

Monitoring a commercial fermentation with proton nuclear magnetic resonance spectroscopy with the aid of chemometrics

Del Campo G, Santos JI, Iurriza N, Berregi I, Munduate A// Univ Basque Country, Fac Chem, Appl Chem & Mat Phys Dept, POB 1072, ES-20018 San Sebastian, Spain

J Agric Food Chem 2006 **54** (8) 3095

Use of the ^1H nuclear magnetic resonance spectra signals from polyphenols and acids for chemometric characterization of cider apple juices

Dufour E, Letort A, Laguet A, Lebecque A, Serra JN// ENITA Clermont Ferrand, UR Typicite Produits Alimentaires, Site Marmilhat, BP 35, FR-63370 Lempdes, France

Anal Chim Acta 2006 **563** (1-2) 292

Investigation of variety, typicality and vintage of French and German wines using front-face fluorescence spectroscopy

Ensafi AA, Hajian R// Isfahan Univ Technol, Coll Chem, IR-84156 Isfahan, Iran

Electroanalysis 2006 **18** (6) 579

Determination of rutin in pharmaceutical compounds and tea using cathodic adsorptive stripping voltammetry

Ermolli M, Fantozzi A, Marini M, Scotti D, Balla B, Hoffmann S, Querci M, Paoletti C, Van den Eede G// European Commiss DG Joint Res Ctr, IHCP, Biotechnol & GMOS Unit, Via E Fermi 1, IT-21020 Ispra, Italy

Accredit Qual Assur 2006 **11** (1-2) 55

Food safety: Screening tests used to detect and quantify GMO proteins

Fernandez-Pachon MS, Villano D, Troncoso AM, Garcia-Parrilla MC*// *Univ Sevilla, Fac Farm, Area Nutr & Bromatol, C/ P Garcia Gonzalez 2, ES-41012 Seville, Spain

Anal Chim Acta 2006 **563** (1-2) 101

Determination of the phenolic composition of sherry and table white wines by liquid chromatography and their relation with antioxidant activity

Frega NG, Boselli E, Bendia E, Minardi M, Benedetti A// Univ Politecn Marche, Dipartimento Sci Alimenti, Via Brece Bianche, IT-60131 Ancona, Italy

Anal Chim Acta 2006 **563** (1-2) 375

Ethyl caffeate: Liquid chromatography-tandem mass spectrometric analysis in Verdicchio wine and effects on hepatic stellate cells and intracellular peroxidation

Guthrie JA, Liebenberg CJ, Walsh KB// Queensland Primary Ind & Fisheries, CQ Mail Ctr, POB 6014, Rockhampton, Qld 4702, Australia

Aust J Agric Res 2006 **57** (4) 411

NIR model development and robustness in prediction of melon fruit total soluble solids

Harkensee D, Beutel S, Young M, Ulber R*// *Tech Univ Kaiserslautern, Lehrgebiet Bioverfahrenstechnik, Gottlieb Daimler Str, DE-67663 Kaiserslautern, Germany

Anal Bioanal Chem 2006 **384** (4) 1013

Development of a fast spectroscopic enzyme assay for on-site measurement of total polyphenol content in grapes and wine

Herrero-Martinez JM, Eeltink S, Schoenmakers PJ, Kok WT, Ramis-Ramos G// University Valencia, Fac Chem, Dept Anal Chem, ES-46100 Burjassot, Spain

J Sep Sci 2006 **29** (5) 660

Determination of major carotenoids in vegetables by capillary electrochromatography

John KMM, Vijayan D, Rahul PR, Joshi SD, Kumar RR, Mandal AKA// UPASI Tea Res Inst, Div Plant Physiol, Nirar Dam BPO, IN-642127 Coimbatore, India

J Agric Food Chem 2006 **54** (8) 2828

Electrofocusing of methanolic extracts for identification of individual flavonol biomolecules in *Camellia* species

Jung K, Richter J, Kabrodt K, Lucke IM, Schellenberg I, Herrling T// Gematria Test Lab, Berlin, Germany

Spectrochim Acta A Mol Biol Spectrosc 2006 **63** (4) 846

The antioxidative power AP—A new quantitative time dependent (2D) parameter for the determination of the antioxidant capacity and reactivity of different plants

Le Bourvellec C, Picot M, Renard CMGC*// *INRA, Unite Rech Cidricoles Biotransformat Fruits & Legume, Ctr Rennes, Domaine La Motte, BP 35653, FR-35653 Le Rheu, France

Anal Chim Acta 2006 **563** (1-2) 33

Size-exclusion chromatography of procyanidins: Comparison between apple and grape procyanidins and application to the characterization of fractions of high degrees of polymerization

Long RL, Walsh KB// Univ Cent Queensland, Plant Sci Grp, Rockhampton, Qld 4702, Australia

Aust J Agric Res 2006 **57** (4) 403

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