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# Food Chemistry

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# Bibliography of analytical methods

(4 weeks journals. Search completed at 21st. May 2008)

#### 1. Reviews

Aaslyng MD, Schafer A// Danish Meat Res Inst, Maglegaardsvej 2, DK-4000 Roskilde, Denmark

Eur Food Res Technol 2008 226 (5) 937

The effect of free fatty acids on the odour of pork investigated by sensory profiling and GC-O-MS

Andersen CM, Mortensen G// Univ Copenhagen, Dept Food Sci, Rolighedsvej 30, Frederiksberg C, Denmark

J Agric Food Chem 2008 **56** (3) 720

Fluorescence spectroscopy: A rapid tool for analyzing dairy products

Ehlert A, Hupfer C, Busch U// Bayerisches Landesamt Gesundheit & Lebensmittelsicherheit, Veterinarstr 2, DE-85764 Oberschleissheim, Germany Fleischwirtschaft 2008 **88** (1) 89

Overview of detection methods of allergens in foods (German, English Abstract)

Korn MDGA, Morte ESD, Dos Santos DCMB, Castro JT, Barbosa JTP, Teixeira AP, Fernandes AP, Welz B, Dos Santos WPC, Dos Santos EBGN, Korn M\*//\*Univ Estado Bahia, NQA/SONOFIA, Salvador, BA, Brazil

Appl Spectrosc Rev 2008 43 (2) 67

Sample preparation for the determination of metals in food samples using spectroanalytical methods - A review

Wilga J, Kot-Wasik A, Astel A\*, Namiesnik J// \*Pomeranian Acad, Biol & Environm Protect Inst, Environm Chem Res Unit, 22A Arciszewskiego Str, PL-76200 Slupsk, Poland

Crit Rev Anal Chem 2008 38 (1) 19

Statistical evaluation of the effectiveness of different extraction techniques for determining robenidine levels in poultry feed

Yu LL, Cheng ZH// Univ Maryland, Dept Nutr & Food Sci, College Park, Md 20742, USA

Mol Nutr Food Res 2008 52 (1) 62

Application of electron spin resonance (ESR) spectrometry in nutraceutical and food research

## 2. General

Koizumi M, Naito S, Ishida N\*, Haishi T, Kano H// \*Natl Food Res Inst, Tsukuba, Ibaraki 305 8642, Japan

Food Sci Technol Res 2008 14 (1) 74

A dedicated MRI for food science and agriculture

Pezo D, Salafranca J\*, Nerin C// \*CPS Univ Zaragoza, Aragon Inst Engn Res, Dept Anal Chem, Torres Quevedo Bldg, Maria de Luna St 3, ES-50018 Zaragoza, Spain

J Chromatogr A 2008 1178 (1-2) 126

Determination of the antioxidant capacity of active food packagings by *in situ* gas-phase hydroxyl radical generation and high-performance liquid chromatography-fluorescence detection

Winning H, Larsen FH, Bro R, Engelsen SB// University Copenhagen, Faculty Life Science, Dept Food Sci, Rolighedsvej 30, DK-1958 Frederiksberg C, Denmark

J Magn Reson 2008 190 (1) 26

Quantitative analysis of NMR spectra with chemometrics

## 3. Amino acids, proteins & enzymes

Cao W, Zhang C\*, Hong P, Ji H// \*Guangdong Ocean Univ, Coll Food Sci & Technol, CN-524025 Zhanjiang, Guangdong Prov, Peoples Rep China Food Chem 2008 **109** (1) 176

Response surface methodology for autolysis parameters optimization of shrimp head and amino acids released during autolysis

Carrera M, Losada V, Gallardo JM, Aubourg SP, Pineiro C\*// \*CSIC, IIM, C/ Eduardo Cabello 6, ES-36208 Vigo, Spain

Int J Food Sci Technol 2008 43 (1) 69

Development of an indirect  $\alpha$ -actinin-based immunoassay for the evaluation of protein breakdown and quality loss in fish species subjected to different chilling methods

Monaghan EK, Venkatachalam M, Seavy M, Beyer K, Sampson HA, Roux KH, Sathe SK\*// \*Florida State Univ, Coll Human Sci, Dept Nutr Food & Exercise Sci, 120 Convocation Way, Sandels Bldg, Tallahassee, Fl 32306, USA *J. Agric Food Chem* 2008 **56** (3) 765

Enzyme-linked immunosorbent assay (ELISA) for detection of sulfur-rich protein (SRP) in soybeans (*Glycine max* L.) and certain other edible plant seeds

Mortazavi A, Najafi MBA\*, Yavarmanesh M, Barouei J// \*Ferdowsi Univ Mashhad, Fac Agric, Dept Food Sci & Technol, IR-91775 Khorasan Razavi, Iran Food Control 2008 19 (6) 551

Application of commercial immuno assay (ELISA) technique for determination of hepatitis A antigen (HAV) in raw milk

Pesavento IC, Bertazzo A, Flamini R, Vedova AD, De Rosso M, Seraglia R, Traldi P\*// \*CNR-ISTM, Corso Stati Uniti 4, IT-35127 Padova, Italy *J Mass Spectrom* 2008 **43** (2) 234

Differentiation of Vitis vinifera varieties by MALDI-MS analysis of the grape seed proteins

## 4. Carbohydrates

Rhee SJ, Cho SY, Kim KM, Cha DS, Park HJ\*// \*Korea Univ, Grad Sch Life Sci & Biotechnol, Seoul 136 713, South Korea

LWT Food Sci Technol 2008 41 (3) 545

A comparative study of analytical methods for alkali-soluble  $\beta$ -glucan in medicinal mushroom, chaga ( $\mathit{Inonotus obliquus}$ )

## 5. Lipids

Allen NE, Grace PB, Ginn A, Travis RC, Roddam AW, Appleby PN, Key T\*//
\*Univ Oxford, Canc Epidemiol Unit, Roosevelt Dr, Oxford OX3 7LF, England Br J Nutr 2008 **99** (3) 653

Phytanic acid: Measurement of plasma concentrations by gas-liquid chromatography-mass spectrometry analysis and associations with diet and other plasma fatty acids

Bernuy B, Meurens M, Mignolet E, Larondelle Y// Univ Catholique Louvain, Unite Biochim Nutr, Croix Sud 2 Bte 8, BE-1348 Louvain la Neuve, Belgium *J Agric Food Chem* 2008 **56** (4) 1159

Performance comparison of UV and FT-Raman spectroscopy in the determination of conjugated linoleic acids in cow milk fat

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 Reviews; 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.

Boselli E, Pacetti D, Curzi F, Frega NG\*// \*Univ Politecn Marche, Dipt Sci Alimenti, Via Brecce Bianche, IT-60131 Ancona, Italy

Meat Sci 2008 78 (3) 305

Determination of phospholipid molecular species in pork meat by high performance liquid chromatography-tandem mass spectrometry and evaporative light scattering detection

Guillen MD, Ruiz A// UPV, Fac Farm, Paseo Universidad 7, ES-01006 Vitoria, Spain

Eur J Lipid Sci Technol 2008 110 (1) 52

Monitoring of heat-induced degradation of edible oils by proton NMR

Jham GN, Muller HV, Cecon P// Univ Fed Vicosa, Dept Quim, LPPN, BR-36570-000 Vicosa, MG, Brazil

J Stored Prod Res 2008 44 (1) 82

Triacylglycerol molecular species variation in stored coffee beans determined by reverse-high-performance liquid chromatography/refractive index detector

Kandhro A, Sherazi STH\*, Mahesar SA, Bhanger MI, Talpur MY, Rauf A//\*University Sindh, Nat Ctr Excellence Anal Chem, PK-76080 Jamshoro, Pakistan

Food Chem 2008 109 (1) 207

GC-MS quantification of fatty acid profile including *trans* FA in the locally manufactured margarines of Pakistan

Kramer JKG, Hernandez M, Cruz-Hernandez C, Kraft J, Dugan MER// Agric & Agri-Food Canada, Guelph Food Res Ctr, 93 Stone Rd West, Guelph, Ontario, Canada N1G 5C9

Lipids 2008 43 (3) 259

Combining results of two GC separations partly achieves determination of all *cis* and *trans* 16:1, 18:1, 18:2 and 18:3 except CLA isomers of milk fat as demonstrated using Ag-ion SPE fractionation

Lerma-Garcia MJ, Ramis-Ramos G, Herrero-Martinez JM, Simo-Alfonso EF// Univ Valencia, Fac Chem, Dept Anal Chem, ES-46100 Burjassot, Valencia, Spain

Rapid Commun Mass Spectrom 2008 22 (7) 973

Classification of vegetable oils according to their botanical origin using sterol profiles established by direct infusion mass spectrometry

Maia L, Casal S\*, Oliveira MBPP// \*Univ Porto, Fac Farm, Serv Bromatol, REQUIMTE, Rua Anibal Cunha 164, PT-4099-030 Oporto, Portugal

J Liq Chromatogr Relat Technol 2008 31 (5) 733

Validation of a micromethod for quantification of lutein and  $\beta$ -carotene in olive oil

Minioti KS, Georgiou CA\*// \*Agric Univ Athens, Chem Lab, 75 Iera Odos, GR-11855 Athens, Greece

Food Chem 2008 109 (2) 455

High throughput flow injection bioluminometric method for olive oil antioxidant capacity

Rozema B, Mitchell B, Winters D, Kohn A, Sullivan D, Meinholz E// Covance Laboratories Incorporated, 3301 Kinsman Boulevard, Madison, Wisconsin 53704, INCA

J AOAC Int 2008 91 (1) 92

Proposed modifications to AOAC 996.06, optimizing the determination of *trans* fatty acids: Presentation of data

Samman S, Chow JWY, Foster MJ, Ahmad ZI, Phuyal JL, Petocz P// Univ Sydney, Sch Mol & Microbial Bioresources G08, Human Nutr Unit, Maze Crescent, Sydney, NSW 2006, Australia

Food Chem 2008 109 (3) 670

Fatty acid composition of edible oils derived from certified organic and conventional agricultural methods

Sato T// Natl Agric & Food Res Org - NARO, KONARC, 2421 Suya, Kumamoto 861 1192, Japan

Plant Prod Sci 2008 11 (1) 146

Nondestructive measurements of lipid content and fatty acid composition in rapeseeds (*Brassica napus* L.) by near infrared spectroscopy

Sierra V, Aldai N, Castro P, Osoro K, Coto-Montes A, Olivan  $M^*//$  \*Serv Reg Invest & Desarrollo Agroalimentario - SERIDA, Apartado 13, ES-33300 Villaviciosa, Spain

Meat Sci 2008 78 (3) 248

Prediction of the fatty acid composition of beef by near infrared transmittance spectroscopy

Sikorska E, Khmelinskii IV, Sikorski M, Caponio F, Bilancia MT, Pasqualone A, Gomes T// Poznan Univ Econ, Fac Commodity Sci, Niepodlegosci 10, PL-60967 Poznan, Poland

Int J Food Sci Technol 2008 43 (1) 52

Fluorescence spectroscopy in monitoring of extra virgin olive oil during storage

Standal IB, Prael A, McEvoy L, Axelson DE, Aursand M// SINTEF Fisheries & Aquaculture, NO-7465 Trondheim, Norway

J Am Oil Chem Soc 2008 **85** (2) 105

Discrimination of cod liver oil according to wild/farmed and geographical origins by GC and  $^{\rm 13}\text{C}$  NMR

Szydlowska-Czerniak A, Karlovits G, Dianoczki C, Recseg K, Szlyk E// Nicholas Copernicus Univ, Fac Chem, ul Gagarina 7, PL-87100 Torun, Poland *J Am Oil Chem Soc* 2008 **85** (2) 141

Comparison of two analytical methods for assessing antioxidant capacity of rapeseed and olive oils

Thurnhofer S, Lehnert K, Vetter W\*// \*Univ Hohenheim, Inst Food Chem, Garbenstr 28, DE-70599 Stuttgart, Germany

Eur Food Res Technol 2008 226 (5) 975

Exclusive quantification of methyl-branched fatty acids and minor 18:1-isomers in foodstuff by GC/MS in the SIM mode using 10,11-dichloroundecanoic acid and fatty acid ethyl esters as internal standards

Van der Klift EJC, Vivo-Truyols G, Claassen FW, Van Holthoon FL, Van Beek TA\*// \*Wageningen Univ, Organ Chem Lab, Nat Prod Chem Grp, Dreijenpl 8, NL-6703 HB Wageningen, The Netherlands

J Chromatogr A 2008 1178 (1-2) 43

Comprehensive two-dimensional liquid chromatography with ultraviolet, evaporative light scattering and mass spectrometric detection of triacylglycerols in corn oil

## 6. Vitamins & co-factors

Bai J, Hun X, Liu Q, Chen JC, Bai L// Univ Sci & Technol Qingdao, Phys Educat & Human Kinesiol Dept, CN-266042 Qingdao, Peoples Rep China *Microchim Acta* 2008 **160** (1-2) 165

Capillary electrophoresis detection scheme for vitamin  $B_1$  and vitamin  $B_2$  based on the potassium hexacyanoferrate(III) chemiluminescence system

Chen JH, Jiang SJ\*// \*Natl Sun Yat Sen Univ, Dept Chem, Kaohsiung 80424, Taiwan

J Agric Food Chem 2008 56 (4) 1210

Determination of cobalamin in nutritive supplements and chlorella foods by capillary electrophoresis-inductively coupled plasma mass spectrometry

De Castilho RF, De Souza EBR, Alfaya RVD, Alfaya AAD\*// \*Univ Estadual Londrina, Dept Quim, BR-86051-990 Londrina, PR, Brazil *Electroanalysis* 2008 **20** (2) 157

Meldola's blue immobilized on a SiO<sub>2</sub>/SnO<sub>2</sub>/phosphate xerogel, a new sensor for determination of ascorbic acid in medicine and commercial fruit juice

Zarei K, Atabati M, Karimian N// Damghan Univ Basic Sci, Dept Chem, Damghan, Iran

J Anal Chem Engl Tr 2008 **63** (2) 145

Simultaneous dual wavelength spectrophotometric determination of citric and ascorbic acids using an artificial neural network

Zerzanova A, Zizkovsky V, Kucera R\*, Klimes J, Jesensky I, Dohnal J, Barron D// \*Charles Univ Prague, Fac Pharm, Dept Pharmaceut Chem & Drug Control, Heyrovskeho 1203, CZ-50005 Hradec Kralove, Czech Republic

J Pharm Biomed Anal 2007 45 (5) 730

Using of HPLC coupled with coulometric detector for the determination of biotin in pharmaceuticals

## 7. Trace elements & minerals

Afkhami A, Madrakian T, Abbasi-Tarighat M// Bu-Ali Sina Univ, Fac Chem, Hamadan, Iran

Food Chem 2008 **109** (3) 660

Simultaneous determination of calcium, magnesium and zinc in different foodstuffs and pharmaceutical samples with continuous wavelet transforms

Alvarez L, Rebollido M, Fernandez-Lorenzo JR, Cocho JA\*, Fraga JM// \*Univ Santiago, Hosp Clin, Lab Metabolopatis, Trav Choupana s/n, ES-15706 Santiago de Compostela, Spain

J Trace Elem Med Biol 2007 21 (Suppl 1) 29

Electrothermal atomic absorption spectrometry determination of aluminium in parenteral nutrition and its components

Alvarez SI, Ruata MLC, Lopez JMG, Comet AGD, Marcen JFE// Hosp Univ Miguel Servet, Serv Bioquim Clin, Paseo Isabel Catolica 1-3, ES-50009 Zaragoza, Spain

J Trace Elem Med Biol 2007 21 (Suppl 1) 26

Validation of determination of lead (Pb) in blood by electrothermal atomic absorption spectrometry (ETAAS) on the basis interlaboratory comparison data

Ay U, Karayunlu S// Inonu caddesi, STFA Bloklari, B2 Blok Kat 5 Daire 22, Erenkoy, Istanbul, Turkey

Int J Food Sci Technol 2008 **43** (2) 326

Modification in direct analysis method: Metal levels in raw milk at the region of Izmit by graphite furnace atomic absorption spectrophotometer

Barciela-Alonso MC, Bermejo-Barrera A, Bermejo-Barrera P// Univ Santiago de Compostela, Dept Anal Chem Nutr, ES-15782 Santigao de Compostela, Spain *J Trace Elem Med Biol* 2007 **21** (Suppl 1) 23

Separation and determination of Se-compounds by liquid chromatography coupled with electrospray mass spectrometry

Bravo IDB, Castro RS, Riquelme NL, Diaz CT, Goyenaga DA// LABAQUA APPLUS, C/ Del Drachma 16-18, Poligono Ind Las Atalayas, ES-03114 Alicante, Spain

J Trace Elem Med Biol 2007 21 (Suppl 1) 14

Optimization of the trace element determination by ICP-MS in human blood serum

Chailapakul O, Korsrisakul S, Siangproh W, Grudpan K// Chulalongkorn Univ, Fac Sci, Dept Chem, Sensor Res Unit, TH-10330 Bangkok, Thailand *Talanta* 2008 **74** (4) 683

Fast and simultaneous detection of heavy metals using a simple and reliable microchip-electrochemistry route: An alternative approach to food analysis

Chang YT, Jiang SJ\*// \*Natl Sun Yat Sen Univ, Dept Chem, Kaohsiung 804, Taiwan

J Anal Atom Spectrom 2008 23 (1) 140

Determination of As, Cd and Hg in emulsified vegetable oil by flow injection chemical vapour generation inductively coupled plasma mass spectrometry

Cozzolino D, Kwiatkowski MJ, Dambergs RG, Cynkar WU, Janik LJ, Skouroumounis G, Gishen A// Australian Wine Res Inst, Waite Rd, POB 197, Glen Osmond, SA 5064, Australia

Talanta 2008 74 (4) 711

Analysis of elements in wine using near infrared spectroscopy and partial least squares regression

Ensafi AA, Khayamian T, Khaloo SS// Isfahan Univ Technol, Coll Chem, IR-84156 Isfahan, Iran

Int J Food Sci Technol 2008 43 (3) 416

Simultaneous determination of trace amounts of vanadium and molybdenum in water and foodstuff samples using adsorptive cathodic stripping voltammetry

Ferreira SLC, Souza AS, Brandao GC, Ferreira HS, Dos Santos WNL, Pimental MF, Vale MGR// Univ Fed Bahia, Inst Quim, Nucl Exelencia & Quim Anal Bahia, Campus Univ Ondina, BR-40170-290 Salvador, BA, Brazil *Talanta* 2008 **74** (4) 699

Direct determination of iron and manganese in wine using the reference element technique and fast sequential multi-element flame atomic absorption spectrometry

He Q, Chang XJ\*, Huang XP, Hu Z// \*Lanzhou Univ, Dept Chem, CN-730000 Lanzhou, Peoples Rep China

Microchim Acta 2008 160 (1-2) 147

Determination of trace elements in food samples by ICP-AES after preconcentration with p-toluenesulfonylamide immobilized on silica gel and nanometer  ${\rm SiO}_2$ 

Kosanovic M, Adem A, Jokanovic M, Abdulrazzaq YM// United Arab Emirates Univ, Fac Med & Hlth Sci, Al Ain, United Arab Emirates

Anal Lett 2008 41 (3) 406

Simultaneous determination of cadmium, mercury, lead, arsenic, copper, and zinc in human breast milk by ICP-MS/microwave digestion

Kunimura S, Watanabe D, Kawai J// Kyoto Univ, Dept Mat Sci & Engn, Kyoto 606 8501, Japan

Bunseki Kagaku 2008 57 (2) 135

Analysis of trace elements in soft drink, environmental water, and leaching solution of toy by using portable total reflection X-ray fluorescence spectrometer (Japanese, English Abstract)

Laursen K, Adamsen CE, Laursen J, Olsen K, Moller JKS\*// \*Univ Copenhagen, Faculty Life Sci, Dept Food Sci, Rolighedsvej 30, DK-1958 Frederiksberg, Denmark

Meat Sci 2008 78 (3) 336

Quantification of zinc-porphyrin in dry-cured ham products by spectroscopic methods. Comparison of absorption, fluorescence and X-ray fluorescence spectroscopy

Michalke B, Berthele A, Mistriotis P, Ochsenkuhn-Petropoulou M, Halbach S// GSF Natl Res Ctr Environm & Hlth, Inst Ecol Chem, DE-85764 Neuherberg, Germany

J Trace Elem Med Biol 2007 21 (Suppl 1) 4

Manganese species from human serum, cerebrospinal fluid analysed by size exclusion chromatography-, capillary electrophoresis coupled to inductively coupled plasma mass spectrometry

Moreno IM, Gonzalez-Weller D, Gutierrez V, Marino M, Camean AM, Gonzalez AG, Hardisson A// Univ Seville, Fac Pharm, C/ Profesor Garcia Gonzalez 2, ES-41012 Seville, Spain

Microchem J 2008 88 (1) 56

Determination of Al, Ba, Ca, Cu, Fe, K, Mg, Mn, Na, Sr, and Zn in red wine samples by inductively coupled plasma optical emission spectroscopy: Evaluation of preliminary sample treatments

Reddy SA, Reddy KJ, Narayana SL, Reddy AV\*// \*Sri Venkateswara Univ, Dept Chem, Anal Chem Div, IN-517502 Tirupati, Andhra Pradesh, India Food Chem 2008 **109** (3) 654

Analytical applications of 2.6-diacetylpyridine bis-4-phenyl-3-thiosemicarbazone and determination of Cu(II) in food samples

Suzuki Y, Chikaraishi Y, Ogawa NO, Ohkouchi N, Korenaga T// Tokyo Metro Univ, Dept Chem, 1-1 Minami-Ohsawa, Hachioji, Tokyo 192 0397, Japan Food Chem 2008 **109** (2) 470

Geographical origin of polished rice based on multiple element and stable isotope analyses

Zheng F, Hu B\*// \*Wuhan Univ, Dept Chem, Wuhan, Peoples Rep China Spectrochim Acta B Atom Spect 2008 63 (1) 9

Novel bimodal porous N-(2-aminoethyl)-3-aminopropyltrimethoxysilane-silica monolithic capillary microextraction and its application to the fractionation of aluminium in rainwater and fruit juice by electrothermal vapourization inductively coupled plasma mass spectrometry

### 8. Drug, biocide & processing residues

Aulakh JS, Fekete A, Malik AK\*, Schmitt-Kopplin P, Mahajan RK// \*Panjab Univ, Dept Chem, IN-147002 Patiala, Punjab, India

Ann Chim 2007 97 (11-12) 1157

Determination of quats in beverages and urine samples by capillary zone electrophoresis

Barriada-Pereira M, Iglesias-Garcia I, Gonzalez-Castro MJ, Muniategui-Lorenzo S\*, Lopez-Mahia P, Prada-Rodriguez D// \*Univ Inst Environm, ES-15179 La Coruna, Spain

J AOAC Int 2008 91 (1) 174

Pressurized liquid extraction and microwave-assisted extraction in the determination of organochlorine pesticides in fish muscle samples

Bhatti IA, Kim BIE, Kim MY, Lee J, Kim HK, Kwon JH\*// \*Kyungpook Natl Univ, Dept Food Sci & Technol, Taegu 702 701, South Korea Food Control 2008 19 (6) 587

The screening and/or identification of different types of irradiated eggs by analyzing photo-stimulated luminescence and thermoluminescence

Blasco C, Font G, Pico Y\*// \*Univ Valencia, Fac Farm, Lab Bromatol & Toxicol, Av Vicent Andres Estelles s/n, ES-46100 Valencia, Spain Food Addit Contam 2008 25 (1) 59

Solid-phase microextraction-liquid chromatography-mass spectrometry applied to the analysis of insecticides in honey

Blaszczyk U, Janoszka B\*// \*Med Univ Silesia, Fac Med & Div Dent, Dept Chem, Jordana 19, PL-41808 Zabrze, Poland Food Chem 2008 **109** (1) 235

Analysis of azaarenes in pan fried meat and its gravy by liquid chromatography with fluorescence detection

Bordajandi LR, Gonzalez MJ// European Commission, Joint Res Ctr, Inst Reference Materials & Measurements, Retieseweg 111, BE-2440 Geel, Belgium *J Dairy Sci* 2008 **91** (2) 483

Enantiomeric fraction of selected chiral polychlorinated biphenyls in cow, goat, and ewe milk and dairy products by heart-cut multidimensional gas chromatography: First results

Cacho C, Schweitz L, Turiel E, Perez-Conde C\*// \*Univ Complutense Madrid, Dept Quim Anal, Ciudad Universitaria s/n, ES-28040 Madrid, Spain *J Chromatogr A* 2008 **1179** (2) 216

Molecularly imprinted capillary electrochromatography for selective determination of thiabendazole in citrus samples

Caetano J, Machado SAS\*// \*Univ Sao Paulo, Inst Quim, CP 780, BR-13560-970 Sao Carlos, SP, Brazil

Sensor Actuator B Chem 2008 129 (1) 40

Determination of carbaryl in tomato "in natura" using an amperometric biosensor based on the inhibition of acetylcholinesterase activity

Chai M, Tan G, Lal A// Univ Tenaga Nasional, Coll Engn, Dept Sci & Math, Km 7 Jalan Kajang Puchong, MY-43009 Kajang, Selangor, Malaysia *Anal Sci* 2008 **24** (2) 273

Optimization of headspace solid-phase microextraction for the determination of pesticide residues in vegetables and fruits

Chai XL, Jia JP\*, Sun TH, Wang YL// \*Shanghai Jiao Tong Univ, Sch Environm Sci & Engn, CN-200030 Shanghai, Peoples Rep China

Chromatographia 2008 67 (3-4) 309

Suitability of a novel circulating cooling SPME for analysis of organo-phosphorous pesticides in tomatoes

Christodoulou EA, Samanidou VF\*, Papadoyannis IN// \*Aristotle Univ Thessaloniki, Dept Chem, Anal Chem Lab, GR-54124 Thessaloniki, Greece *J Sep Sci* 2008 **31** (1) 119

Development of an HPLC multi-residue method for the determination of ten quinolones in bovine liver and porcine kidney according to the European Union Decision 2002/657/EC

Diez R, Ortiz MC\*, Sarabia L, Birlouez-Arayon I// \*Fac Sci, Dept Chem, Pza Misael Banuelos s/n, ES-09001 Burgos, Spain

Anal Chim Acta 2008 606 (2) 151

Potential of front face fluorescence associated to PLS regression to predict nutritional parameters in heat treated infant formula models

Ferrini AM, Mannoni V, Carpico G, Pellegrini GE// Ist Super Sanita, Natl Food Ctr Qual & Risk Assessment, Viale Regina Elena 299, IT-00161 Rome, Italy *J Agric Food Chem* 2008 **56** (3) 784

Detection and identification of  $\beta$ -lactam residues in milk using a hybrid biosensor

Font H, Adrian J, Galve R, Esevez MC, Castellari M, Gratacos-Cubarsi M, Sanchez-Baeza F, Marcot MP\*// \*IIQAB - CSIC, AMRG, CIBER Bioengn Biomat & Nanomed, ES-08034 Barcelona, Spain

J Agric Food Chem 2008 56 (3) 736

Immunochemical assays for direct sulfonamide antibiotic detection in milk and hair samples using antibody derivatized magnetic nanoparticles

Frenich AG, Vidal JLM, Pastor-Montoro E, Romero-Gonzalez R// Univ Almeria, Dept Anal Chem, ES-04071 Almeria, Spain

Anal Bioanal Chem 2008 390 (3) 947

High-throughput determination of pesticide residues in food commodities by use of ultra-performance liquid chromatography-tandem mass spectrometry

Gallo P, Fabbrocino S, Vinci F, Danese V, Serpe L// Inst Zooprofilattico Sperimentale Mezzogiorno, Via Salute 2, IT-80055 Portici, NA, Italy Rapid Commun Mass Spectrom 2008 **22** (6) 841

Confirmatory identification of sixteen non-steroidal anti-inflammatory drug residues in raw milk by liquid chromatography coupled with ion trap mass spectrom-

Gomara B, Lebron-Aguilar R, Quintanilla-Lopez JE, Gonzalez MJ// Inst Gen Organ Chem - CSIC, Dept Instrumental Anal & Environm Chem, Juan de la Cierva 3, ES-28006 Madrid, Spain

Anal Chim Acta 2007 605 (1) 53

Development of a new method for the enantiomer specific determination of HBCD using an ion trap mass spectrometer

Guan W, Wang YJ, Xu F, Guan YF\*// \*Chinese Acad Sci, Dalian Inst Chem Phys, Dept Instrumentation & Anal Chem, 457 Zhongshan Rd, CN-116023 Dalian, Peoples Rep China

J Chromatogr A 2008 1177 (1) 28

Poly(phthalazine ether sulfone ketone) as novel stationary phase for stir bar sorptive extraction of organochlorine compounds and organophosphorus pesticides

Hammel YA, Mohamed R, Gremaud E, LeBreton MH, Guy PA\*// \*Nestec Ltd, Nestle Research Ctr, POB 44, Vers-chez-les-Blanc, CH-1000 Lausanne, Switzerland

J Chromatogr A 2008 1177 (1) 58

Multi-screening approach to monitor and quantify 42 antibiotic residues in honey by liquid chromatography-tandem mass spectrometry

Heroult J, Bueno M, Potin-Gautier M, Lespes G// Universite Pau & Pays Adour, UMR 5254, Lab Chim Anal Bioinorgan & Environm, BP 1155, FR-64013 Pau, France

J Chromatogr A 2008 1180 (1-2) 122

Organotin speciation in French brandies and wines by solid-phase micro-extraction and gas chromatography-pulsed flame photometric detection

Hsu CL, Jang HD, Su MS, Chang KS\*, Huang YS// \*Yuanpei Univ, Dept Food Sci, 306 Yuanpei St, Hsinchu 300, Taiwan

Eur Food Res Technol 2008 226 (4) 809

Amperometric determination of hydrogen peroxide residue in beverages using a Nafion modified palladium electrode

Jeon M, Kim J, Paeng KJ, Park SW, Paeng IR\*// \*Seoul Womens Univ, Dept Chem, Seoul 139 774, South Korea

 $Microchem\ J\ 2008\ {\bf 88}\ (1)\ 26$ 

Biotin-avidin mediated competitive enzyme-linked immunosorbent assay to detect residues of tetracyclines in milk

Jo D, Kim BK, Kausar T, Kwon JH\*// \*Kyungpook Natl Univ, Dept Food Sci & Technol, Taegu 701 702, South Korea

J Agric Food Chem 2008 56 (4) 1180

Study of photostimulated- and thermo-luminescence characteristics for detecting irradiated kiwifruit

Khan AA, Khan HM// Univ Peshawar, Radiat Chem Lab, Natl Ctr Excellence Phys Chem, PK-25120 Peshawar, Pakistan

J Radioanal Nucl Chem 2008 **275** (2) 337

DNA comet assay: A simple screening technique for identification of some irradiated foods

Kleinhenz S, Eigner G// Inst Sicherheit & Qualitat Fleisch, Max Rubner Inst, EC Baumann Str 20, DE-95326 Kulmbach, Germany

 ${\it Fleischwirtschaft~2008~88~(1)~100}$ 

Development of a clean-up procedure to determine Sudan and azo dyes in meat products by applying LC-MS or HPLC-UV (German, English Abstract)

Lal A, Tan G, Chai M// Univ Malaya, Fac Sci, Dept Chem, MY-50603 Kuala Lumur, Malaysia

Anal Sci 2008 **24** (2) 231

Multiresidue analysis of pesticides in fruits and vegetables using solid-phase extraction and gas chromatographic methods

Li CT, Cheng CY, Ding WH\*// \*Natl Cent Univ, Dept Chem, Chungli 32054, Taiwan

Food Chem Toxicol 2008 46 (2) 803

Determination of alkylphenol residues in baby-food purees by steam distillation extraction and gas chromatography-mass spectrometry

Li ZW, Ma HB, Lu HH, Tao GH\*// \*Soochow Univ, Coll Chem & Chem Engn, CN-215123 Jiangsu, Peoples Rep China

Talanta 2008 74 (4) 788

Determination of formaldehyde in foodstuffs by flow injection spectrophotometry using phloroglucinol as chromogenic agent

Liu M, Yang H, Liu HX, Han P, Wang X, Zhang SS\*, Wu YJ// \*Zhengzhou Univ, Dept Chem, Key Lab Chem Biol & Organ Chem Henan, Daxue Rd 75, CN-450052 Zhengzhou, Peoples Rep China

J Sci Food Agric 2008 88 (1) 62

Development of high-performance liquid chromatography and non-aqueous capillary electrophoresis methods for the determination of fenoxycarb residues in wheat samples

Maia PP, Rath S, Reyes FGR\*// \*State Univ Campinas, Dept Food Sci, PO Box 6121, BR-13084-971 Campinas, SP, Brazil

Food Chem 2008 109 (1) 212

Determination of oxytetracycline in tomatoes by HPLC using fluorescence detection

Melo A, Viegas O, Eca R, Petisca C, Pinho O, Ferreira IMPLVO\*// \*Univ Porto, Fac Farm, Serv Bromatol, REQUIMTE, Rua Anibal Cunha 164, Oporto, Portugal *J Liq Chromatogr Relat Technol* 2008 **31** (5) 772

Extraction, detection, and quantification of heterocyclic aromatic amines in Portuguese meat dishes by HPLC/diode array

Mikulcikova P, Ticha S, Eisner A, Adam M, Ventura K// Univ Pardubice, Fac Chem Technol, Dept Anal Chem, nam CS Legii 565, CZ-53210 Pardubice, Czech Republic

Microchim Acta 2008 160 (1-2) 113

Determination of anabolic steroids in creatine nutritional supplements after supercritical fluid extraction

Miller KD, Milne P\*// \*PepsiCo Inc, 100 Stevens Ave, Valhalla, NY 10595, USA

J AOAC Int 2008 91 (1) 181

Determination of low-level pesticide residues in soft drinks and sports drinks by liquid chromatography with tandem mass spectrometry: Collaborative study

Miller KD, Milne P\*// \*Address as above

J AOAC Int 2008 91 (1) 202

Determination of pesticide residues (>0.5  $\mu$ g/L) in soft drinks and sports drinks by gas chromatography with mass spectrometry: Collaborative study

Peng CF, Chen YW, Chen W, Xu CL, Kim JM, Jin ZY\*// \*Southern Yangtze University, School Food Science & Technol, CN-214122 Wuxi, Peoples Rep China

Food Chem 2008 109 (3) 647

Development of a sensitive heterologous ELISA method for analysis of acetylgestagen residues in animal fat

Preston A, Fodey T, Elliott C// Univ Liverpool, Dept Biomed Sci, Sherrington Bldg, Ashton St, Liverpool L69 3GE, England

Anal Chim Acta 2008 **608** (2) 178

Development of a high-throughput enzyme-linked immunosorbent assay for the routine detection of the carcinogen acrylamide in food, via rapid derivatisation pre-analysis

Sanches-Silva A, Pastorelli S, Cruz JM, Simoneau C, Castanheira I, Paseiro-Losada P\*// \*Univ Santiago de Compostela, Fac Pharm, Dept Anal Chem Nutr & Food Sci, ES-15782 Santiago de Compostela, Spain

 $J\ Dairy\ Sci\ 2008\ {\bf 91}\ (3)\ 900$ 

Development of an analytical method for the determination of photoinitiators used for food packaging materials with potential to migrate into milk

Sanches-Silva A, Pastorelli S, Cruz JM, Simoneau C, Paseiro-Losada P\*// \*Univ Santiago de Compostela, Fac Pharm, Dept Anal Chem Nutr & Food Sci, ES-15782 Santiago de Compostela, Spain

J Food Sci 2008 **73** (2) C92

Development of a multimethod for the determination of photoinitiators in beverage packaging

Shim JH, Ei-Aty AMA, Choi JH, Kang CA// Chonnam Natl Univ, Coll Agric & Life Sci, Inst Agric Sci & Technol, Nat Prod Chem Lab, Kwangju 500 757, South Korea

Biomed Chromatogr 2007 21 (12) 1279

Determination of field-incurred pyrimethanil residues in persimmon ( $Diospyros\ kaki\ Linn$ ) by liquid chromatography

Tewfik I// Univ Washington, Sch Biosci, 115 New Cavendish St, London W1W 6UW, England

Int J Food Sci Technol 2008 43 (1) 108

A rapid direct solvent extraction method for the extraction of cyclobutanones from irradiated chicken and liquid whole egg

Valdes-Ramirez G, Fournier D, Ramirez-Silva MT, Marty JL\*// \*Univ Autonoma Metropolitana Iztapalapa, Dept Quim, Area Quim Anal, San Rafael Atlixo 186, MX-09340 Mexico City, DF, Mexico

Talanta 2008 74 (4) 741

Sensitive amperometric biosensor for dichlorovos quantification: Application to detection of residues on apple skin

Vass M, Diblikova I, Cernoch I, Franek M\*// \*Veterinary Res Inst, Hudcova 70, CZ-62100 Brno, Czech Republic

Anal Chim Acta 2008 608 (1) 86

ELISA for semicarbazide and its application for screening in food contamination

Vazquez RP, Mughari AR, Galera MM// Univ Almeria, Dept Anal Chem, ES-04120 La Canada de San Urbano, Almeria, Spain

Anal Chim Acta 2008 607 (1) 74

Solid-phase microextraction (SPME) for the determination of pyrethroids in cucumber and watermelon using liquid chromatography combined with post-column photochemically induced fluorimetry derivatization and fluorescence detec-

Vazquez IP, Mughari AR, Galera MM// Address as above *J Sep Sci* 2008 **31** (1) 56

Solid-phase microextraction for the determination of benzoylureas in orange juice using liquid chromatography combined with post-column photochemically induced fluorimetry derivatization and fluorescence detection

Wang YL, Zeng ZR\*, Liu MM, Yang M, Dong CZ// \*Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China

Eur Food Res Technol 2008 226 (5) 1091

Determination of organophosphorus pesticides in pakchoi samples by headspace solid-phase microextraction coupled with gas chromatography using home-made fiber

Wang ZH, Zhang SX, Murtazina NR, Erernin SA, Shen  $JZ^*//$  \*China Agric Univ, Coll Vet Med, Dept Vet Pharmacol & Toxicol, CN-100094 Beijing, Peoples Rep China

Int J Food Sci Technol 2008 43 (1) 114

Determination of the veterinary drug maduramicin in food by fluorescence polarisation immunoassay

Yuan JT, Liao LF\*, Lin YW, Deng CG, He B// \*Univ Sth China, Coll Chem & Chem Engn, CN-421001 Hengyang, Hunan, Peoples Rep China

Anal Chim Acta 2008 607 (2) 160

Determination of Sudan I in chilli powder from solvent components gradual change-visible spectra data using second order calibration algorithms

Zhang MS, Huang JR, Wei CL, Yu BB, Yang XQ, Chen X\*// \*Xiamen Univ, Coll Chem & Chem Engn, Department Chem, CN-361005 Xiamen, Peoples Rep China

Talanta 2008 **74** (4) 599

Mixed liquids for single-drop microextraction of organochlorine pesticides in vegetables

Zhang Y, Liu JW, Zheng WJ, Wang L, Zhang HY, Fang GZ, Wang S\*//\*Tianjin University Science & Technology, Faculty Food Engineering & Biotechnology, Tianjin Key Lab Food Nutr & Safety, Tianjin, Peoples Rep China

 $\label{eq:linear_sci} \textit{J Environ Sci Health B 2008 43 (2) 127}$ 

Optimization and validation of enzyme-linked immunosorbent assay for the determination of endoxulfan residues in food samples

Zou QH, Wang J, Wang XF, Liu Y, Han J, Hou F, Xie MX\*// \*Beijing Normal Univ, Anal & Testing Ctr, CN-100875 Beijing, Peoples Rep China *J AOAC Int* 2008 **91** (1) 252

Application of matrix solid-phase dispersion and high-performance liquid chromatography for determination of sulfonamides in honey

## 9. Toxins/Allergens

Bacaloni A, Cavaliere C, Cucci F, Foglia P, Amperi RS, Lagana  $A^*\!/\!/$  \*Univ Roma La Sapienza, Dipt Chim, P A Moro 5, IT-00185 Rome, Italy

J Chromatogr A 2008 1179 (2) 182

Determination of aflatoxins in hazlenuts by various sample preparation methods and liquid chromatography-tandem mass spectrometry

Brezna B, Kuchta T// Food Res Inst, Dept Mol Biol & Microbiol, Priemyselna 4, POB 25, SK-82475 Bratislava 26, Slovakia

Eur Food Res Technol 2008 226 (5) 1113

A novel real-time polymerase chain reaction method for the detection of pecan nuts in food

Careri M, Elviri L, Maffini M, Mangia A, Mucchino C\*, Terenghi M// \*Univ Parma, Dipt Chim Gen & Inorgan Chim Anal Chim Fis, Viale GP Usberti 17/a, IT-43100 Parma, Italy

Rapid Commun Mass Spectrom 2008 22 (6) 807

Determination of peanut allergens in cereal-chocolate-based snacks: Metal-tag inductively coupled plasma mass spectrometry immunoassay *versus* liquid chromatography/electrospray ionization tandem mass spectrometry

Dona VV, Fossati CA, Chirdo FG\*// \*Natl Univ La Plata, LISIN, AR-1900 La Plata, Argentina

Eur Food Res Technol 2008 226 (3) 591

Interference of denaturing and reducing agents on the antigen/antibody interaction. Impact on the performance of quantitative immunoassays in gliadin analysis

Hernandez Hierro JM, Garcia-Villanova RJ\*, Torrero PR, Toruno Fonseca IM// \*Univ Salamanca, Fac Farm, Dept Quim Anal Nutr & Bromatol, Campus Miguel de Unamuno, ES-37007 Salamanca, Spain

J Agric Food Chem 2008 56 (3) 751

Aflatoxins and ochratoxin a in red paprika for retail sale in Spain: Occurrence and evaluation of a simultaneous analytical method

Jechorek RP, Johnson RL// Rtech Labs, POB 64101, St Paul, Mn 55164, USA J AOAC Int 2008 91 (1) 164

Evaluation of the VIDAS® Staph enterotoxin II (SET 2) immunoassay method for the detection of staphylococcal enterotoxins in selected foods: Collaborative study

Maragos CM, Busman M, Plattner RD// USDA/ARS, Natl Ctr Agric Utilization Res, Mycotoxin Res Unit, 1815 Nth University St, Peoria, Il 61604, USA *Food Addit Contam* 2008 **25** (1) 105

Development of monoclonal antibodies for the fusarin mycotoxins

Murillo M, Gonzalez-Penas E\*, Amezqueta S// \*Univ Navarra, Organ & Pharmaceut Chem Dept, C/ Inrularrea 1, ES-31008 Pamplona, Spain Food Chem Toxicol 2008 **46** (1) 57

Determination of patulin in commercial apple juice by micellar electrokinetic chromatography

Mustorp S, Engdahl-Axelsson C, Svensson U, Holck A\*// \*Matforsk, Norwegian Food Res Inst, Osloveien 1, NO-1430 AS, Norway

Eur Food Res Technol 2008 226 (4) 771

Detection of celery (Apium graveolens), mustard (Sinapis alba, Brassica juncea, Brassica nigra) and sesame (Sesamum indicum) in food by real-time PCR

Piknova L, Pangallo D, Kuchta T\*// \*Food Res Inst, Dept Microbiol & Mol Biol, Priemyselna 4, POB 25, SK-84275 Bratislava, Slovakia

Eur Food Res Technol 2008 226 (5) 1155

A novel real-time polymerase chain reaction (PCR) method for the detection of hazelnuts in food

Sakai S, Matsuda R, Adachi R, Akiyama H, Maitani T, Ohno Y, Oka M, Abe A, Seiki K, Oda H, Shiomi K, Urisu A// Natl Inst Hlth Sci, 1-18-1 Kamiyoga, Setagaya ku, Tokyo 158 8501, Japan

J AOAC Int 2008 91 (1) 123

Interlaboratory evaluation of two enzyme-linked immunosorbent assay kits for the determination of crustacean protein in processed foods

Shim YY, Wanasundara JPD\*// \*Agric & Agri-Food Canada, Saskatoon Res Ctr, 107 Sci Pl Saskatoon, Saskatoon, Saskatchewan, Canada S7N 0X2

 $J\,Agric\,Food\,Chem\,2008\,\, {\bf 56}\,\, (4)\,\,1184$ 

Quantitative detection of allergenic protein Sin a 1 from yellow mustard (Sinapis alba L.) seeds using enzyme-linked immunosorbent assay

Versilovskis A, Bartkevics V, Mikelsone V// Nat Diagnostic Ctr, Food & Environm Invest Lab, Lejupes iela 3, LV-1076 Riga, Latvia

Food Chem 2008 109 (1) 243

Sterigmatocystin presence in typical Latvian grains

Zougagh M, Rios A\*// \*Univ Castilla La Mancha, Fac Chem, Dept Anal Chem & Food Technol, Av Camilo Jose Cela s/n, ES-13004 Ciudad Real, Spain *J Chromatogr A* 2008 **1177** (1) 50

Supercritical fluid extraction of macrocyclic lactone mycotoxins in maize flour samples for rapid amperometric screening and alternative liquid chromatographic method for confirmation

#### 10. Additives

Chung SWC, Chan BTP, Chan ACM// Publ Hlth Lab Ctr, Food & Environm Hyg Dept, 4/F, Food Res Lab, 382 Nam Cheong St, Hong Kong, Peoples Rep China

J AOAC Int 2008 **91** (1) 98

Determination of free and reversibly-bound sulfite in selected foods by high-performance liquid chromatography with fluorometric detection

Huang W, Niu H, Shi B\*, Yang ML, Jiang JX// \*Sichuan Univ, Key Lab Leather Chem, CN-610065 Chengdu, Peoples Rep China

J Food Lipids 2008 **15** (1) 1

HPLC coupled with ion trap MS/MS for analysis of tertiary butylhydroquinone in edible oil samples

Li XQ, Zhang F, Sun YY, Yong W, Chu XG\*, Fang YY, Zweigenbaum J// \*Chinese Acad Inspect & Quarantine, Inst Food Safety, Jia 3 Gaobeidian Nth Rd, CN-100025 Beijing, Peoples Rep China Anal Chim Acta 2008 **608** (2) 165

Accurate screening, for synthetic preservatives in beverage using high performance liquid chromatography with time-of-flight mass spectrometry

Suman M, De Maria R, Catellani D// Barilla G e R Fratelli SpA, Cent Res Labs, Via Mantova 166, IT-43100 Parma, Italy

J Sci Food Agric 2008 88 (3) 471

Chromatographic evaluation of chlorophyll derivatives in pasta-based food products: Effects of pasteurization treatments and correlation with sensory profiles

#### 11. Flavours & aromas

Cardeal ZL, De Souza PP, Da Silva MDRG, Marriott PJ// Univ Fed Minas Gerais, ICEX, Dept Chem, Avenida Antonio Carlos 6627, BR-31270-901 Belo Horizonte, MG, Brazil

Talanta 2008 74 (4) 793

Comprehensive two-dimensional gas chromatography for fingerprint pattern recognition in cachaca production

Cocchi M, Durante C, Grandi M, Manzini D, Marchetti A// Univ Modena, Dipt Chim, Via Campi 183, IT-41100 Modena, Italy

Talanta 2008 74 (4) 547

Three-way principal component analysis of the volatile fraction by HS-SPME/GC of Aceto Balsamico Tradizionale of Modena

De Schutter DP, Saison D, Delvaux F, Derdelinckx G, Rock JM, Neven H, Delvaux FR// Katholieke Univ Leuven, Fac Biosci Engn, Ctr Malting & Brewing Sci, Kasteelpk Arenberg 22, Box 2463, BE-3001 Heverlee, Belgium *J Chromatogr A* 2008 **1179** (2) 75

Optimisation of wort volatile analysis by headspace solid-phase microextraction in combination with gas chromatography and mass spectrometry

Gopu CL, Aher S, Mehta H, Paradkar AR, Mahadik KR\*// \*Bharati Vidyapeeth Univ, Poona Coll Pharm, IN-411038 Pune, India

Phytochem Anal 2008 19 (2) 116

Simultaneous determination of cinnamaldehyde, eugenol and piperine by HPTLC densitometric method

Greule M, Mosandl A\*// \*Univ Frankfurt, Inst Lebensmittelchem, Max von Laue Str 9, DE-60438 Frankfurt, Germany

Eur Food Res Technol 2008 226 (5) 1001

Heptan-2-ol and *trans*-linalool oxide (fur.) as inherent indicators of natural black-berry flavour using enantioselective and multielement-MDGC-IRMS analysis

Hashemi P, Yarahmadi A, Azizi K, Sabouri B// Lorestan Univ, Dept Chem, Khorramabad, Iran

Chromatographia 2008 67 (3-4) 253

Study of the effect of N fertilization and plant density on the essential oil composition and yield of *Cuminum cyminum* L. Seeds by HS-SME

Jaskula B, Goiris K, De Rouck G, Aerts G, De Cooman L// Tech Univ KaHo St Lieven, Lab Enzyme & Brewing Technol, Gebroeders Desmetstr 1, BE-9000 Ghent, Belgium

J Inst Brew 2007 113 (4) 381

Enhanced quantitative extraction and HPLC determination of hop and beer bitter acids

Jonsdottir R, Olafsdottir G, Chanie E// Matis ohf, Food Res Innovation & Safety, Biotechnol & New Prod, Skulagata 4, IS-101 Reykjavik, Iceland

Food Chem 2008 109 (1) 184

Volatile compounds suitable for rapid detection as quality indicators of cold smoked salmon  $(Salmo\ salar)$ 

Khadri A, Serralheiro MLM, Nogueira JMF, Neffati M, Smiti S, Araujo MEM// Univ El-Manar II, Unity Res Veg Ecol, TN-2092 Tunis, Tunisia *Food Chem* 2008 **109** (3) 630

Antioxidant and antiacetylcholinesterase activities of essential oils from Cymbopogon schoenanthus L. Spreng. Determination of chemical composition by GC-mass spectrometry and  $^{13}$ C NMR

Khurana HK, Cho IK, Shim JY, Li QX, Jun SJ\*// \*Univ Hawaii, Dept Human Nutr Food & Anim Sci, 1955 East-West Rd, Honolulu, Hi 96822, USA *J Agric Food Chem* 2008 **56** (3) 778

Application of multibounce attenuated total reflectance Fourier transform infrared spectroscopy and chemometrics for determination of aspartame in soft drinks

Mildner-Szkudlarz S, Jelen HH, Zawirska-Wojtasiak R// Agric Univ Poznan, Dept Food Sci & Nutr, Wojska Polskiego 31, PL-60624 Poznan, Poland Eur J Lipid Sci Technol 2008 110 (1) 61

The use of electronic and human nose for monitoring rapeseed oil autoxidation

Ni Y, Wang Y, Kokot S// Nanchang Univ, Dept Chem, CN-330047 Nanchang, Jiangxi, Peoples Rep China

Food Chem 2008 109 (2) 431

Simultaneous kinetic-spectrophotometric determination of maltol and ethyl maltol in food samples by using chemometrics

Pizarro C, Esteban-Diez I, Saenz-Gonzalez C, Gonzalez-Saiz JM// Univ La Rioja, Dept Chem, C/ Madre de Dios 51, ES-26006 Logrono, Spain *Anal Chim Acta* 2008 **608** (1) 38

Vinegar classification based on feature extraction and selection from headspace solid-phase microextraction/gas chromatography volatile analyses: A feasability study

Rychlik M// Tech Univ Munich, Lehrstuhl Lebensmittelchem, Lichtenbergstr 4, DE-85748 Garching, Germany

J Agric Food Chem 2008 56 (3) 796

Quantification of free coumarin and its liberation from glucosylated precursors by stable isotope dilution assays based on liquid chromatography-tandem mass spectrometric detection

Sobel RM, Ballantine DS\*// \*Nthn Illinois Univ, Dept Chem & Biochem, De Kalb, Il 60115, USA

Anal Chim Acta 2008 608 (1) 79

2D bitmapping approach for identification and quantitation of common base flavour adulterants using surface acoustic wave arrays and artificial neural network data analysis

Sun C, Xie Y, Tian Q, Liu H\*// \*Chinese Acad Sci, Inst Process Engn, Lab Separat Sci & Engn, CN-100080 Beijing, Peoples Rep China

Phytochem Anal 2008 19 (2) 160

Analysis of glycyrrhizic acid and liquiritin in liquorice root with microwave-assisted micellar extraction and pre-concentration

Tamaki K, Sonoki S, Tamaki T, Ehara K// Univ Calif Davis, Dept Food Sci & Technol, Davis, Ca 95616, USA

Int J Food Sci Technol 2008 43 (1) 130

Measurement of odour after *in vitro* or *in vivo* ingestion of raw or heated garlic, using electronic nose, gas chromatography and sensory analysis

Tietz M, Buettner A, Conde-Petit  $B^* \! / \! / \ ^*ETH$  Zurich, Inst Food Sci & Nutr, CH-8092 Zurich, Switzerland

Food Chem 2008 **108** (4) 1192

Interaction between starch and aroma compounds as measured by proton transfer mass spectrometry (PTR-MS)

Wang LF, Lee JY, Chung JO, Baik JH, So S, Park SK\*// \*Kyung Hee Univ, Dept Food Sci & Biotechnol, Giheung-gu, Yongin-si 446 701, South Korea *Food Chem* 2008 **109** (1) 196

Discrimination of teas with different degrees of fermentation by SPME-GC analysis of the characteristic volatile flavour compounds

Yu HC, Wang J\*, Zhang HM, Yu Y, Yao C// \*Zhejiang Univ, Dept Biosystems Engn, Hangzhou, Peoples Rep China

Sensor Actuator B Chem 2008 128 (2) 455

Identification of green tea grade using different feature of response signal from E-nose sensors

Zhang QF, Jiang ZT\*, Gao HJ, Li R// \*Tianjin Univ Commerce, Dept Food Sci & Engn, CN-300134 Tianjin, Peoples Rep China

Eur Food Res Technol 2008 226 (3) 377

Recovery of vanillin from aqueous solutions using macroporous adsorption resins

Zhang QY, Zhang SP, Xie CS\*, Fan CQ, Bai ZK// \*Huazhong Univ Sci & Technol, CN-430074 Wuhan, Peoples Rep China

Sensor Actuator B Chem 2008 128 (2) 586

'Sensory analysis' of Chinese vinegars using an electronic nose

Zhang ZM, Zeng DD, Li GK\*// \*Sun Yat Sen Univ, Guangzhou, PRC J Sci Food Agric 2008 88 (1) 116

Study of the volatile composition of tomato during storage by a combination sampling method coupled with gas chromatography/mass spectrometry

## 12. Organic acids

Antonelli ML, Tornelli RF// Univ Roma La Sapienza, Dept Chem, P Aldo Moro 5, IT-00185 Rome, Italy

J Therm Anal Calorim 2008 91 (1) 113

Calorimetric analysis of three hydroxy acids as markers for quality and safety in food

Du XL, Zhang HS, Deng YH, Wang H\*// \*Wuhan Univ, Dept Chem, CN-430072 Wuhan, Peoples Rep China

J Chromatogr A 2008 1178 (1-2) 92

Design and synthesis of a novel fluorescent reagent, 6-oxy-(ethylpiperazine)-9-(2'-methoxycarbonyl) fluorescein, for carboxylic acids and its application in food samples using high-performance liquid chromatography

### 13. Animal products

Al-Qadiri HM, Lin M, Al-Holy MA, Cavinato AG, Rasco BA// Univ Jordan, Fac Agric, Dept Nutr & Food Technol, JO-11942 Amman, Jordan *J Dairy Sci* 2008 **91** (3) 950

Monitoring quality loss of pasteurized skim milk using visible and short wavelength near-infrared spectroscopy and multivariate analysis

Andres S, Silva A, Soares-Pereira AL, Martins C, Bruno-Soares AM\*, Murray I//
\*Inst Super Agron, DPAA, PT-1399 Lisbon, Portugal
Meat Sci 2008 78 (3) 217

The use of visible and near infrared reflectance spectroscopy to predict beef m-longissimus thoracic et lumborum quality attributes

Beretta G, Caneva E, Facino RM// Univ Milan, Fac Pharm, Ist Chim Farmaceut & Tossicol Pietro Pratesi, Viale Abruzzi 42, IT-20131 Milan, Italy *Planta Med* 2007 **73** (15) 1592

Kynurenic acid in honey from arboreal plants: MS and NMR evidence

Fajardo V, Gonzalez I\*, Martin I, Rojas M, Hernandez PE, Garcia T, Martin R// \*Univ Complutense, Fac Vet, Dept Nutr, ES-28040 Madrid, Spain *J AOAC Int* 2008 **91** (1) 103

Real-time PCR for quantitative detection of chamois (Rupicapra rupicapra) and pyrenean ibex (Capra pyrenaica) in meat mixtures

Frezza D, Giambra V, Chegdani F, Fontana C, Maccabiani G, Losio N, Faggionato E, Chiappini B, Vaccari G, Von Holst C, Lanni L, Saccares S, Ajmone-Marsan P// Univ Roma Tor Vergata, Dept Biol Enrico Calef, Viale Ricerca Sci, IT-00133 Rome, Italy

Innov Food Sci Emerg Technol 2008 9 (1) 18

Standard and Light-Cycler PCR methods for animal DNA species detection in animal feedstuffs

Gaitan-Jurado AJ, Ortiz-Somovilla V, Espana-Espana F, Perez-Aparicio J, De Pedro-Sanz EJ// IFAPA, Postharvest & Food Technol Area, Ctr Alameda Obispo, POB 3092, ES-14080 Cordoba, Spain

Meat Sci 2008 78 (4) 391

Quantitative analysis of pork dry-cured sausages to quality control by NIR spectroscopy

Karoui R, De Baerdemaeker J, Dufour E// ENITA Clermont Ferrand, UR Typicite Produits Alimentaires, BP 35, FR-63370 Lempdes, France Eur Food Res Technol 2008 **226** (4) 861

A comparison and joint use of mid infrared and fluorescence spectroscopic methods for differentiating between manufacturing processes and sampling zones of ripened soft cheeses

Karoui R, De Baerdemaeker J, Dufour E// Address as above

Eur Food Res Technol 2008 226 (5) 1119

Utilisation of front face fluorescence spectroscopy as a tool for the prediction of some chemical parameters and the melting point of semi-hard and hard cheeses: A preliminary study

Lolli M, Bertelli D\*, Plessi M, Sabatini AG, Restani C// \*Univ Modena & Reggio Emilia, Dipt Sci Farmaceut, Via Campi 183, IT-41100 Modena, Italy *J Agric Food Chem* 2008 **56** (4) 1298

Classification of Italian honeys by 2D HR-NMR

Pascoal A, Barros-Velazquez J\*, Cepeda A, Gallardo JM, Calo-Mata P// \*Univ Santiago de Compostela, Lab Food Technol, LHICA, ES-27002 Lugo, Spain *Food Chem* 2008 **109** (3) 638

Survey of the authenticity of prawn and shrimp species in commercial food products by PCR-RFLP analysis of a 16S rRNA/tRNA<sup>Val</sup> mitochondrial region

Starkey DE, Denison JE, Seipelt CT, Jacobs WA// Abbott Nutrition, 625 Cleveland Ave, Columbus, Oh 43215, USA

J AOAC Int 2008 91 (1) 130

Single-laboratory validation of a liquid chromatographic/tandem mass spectrometric method for the determination of free and total carnitine in infant formula and raw ingredients

Wu D, Feng S, He Y\*// \*Zhejiang Univ, Coll Biosyst Eng<br/>n & Food Sci, CN-310029 Hangzhou, Peoples Rep China

J Dairy Sci 2008 91 (3) 939

Short-wave near-infrared spectroscopy of milk powder for brand identification and component analysis

#### 14. Plant & microbial products

Abu-Ghoush M, Herald TJ, Dowell F, Xie F, Aramouni FM, Madl R// Hashemite Univ, POB 330156, JO-13133 Zarqa, Jordan

Int J Food Sci Technol 2008 43 (2) 357

Effect of preservatives addition on the shelf-life extensions and quality of flat bread as determined by near-infrared spectroscopy and texture analysis

Abu-Ghoush M, Herald TJ, Dowell F, Xie F, Aramouni FM, Walker C// Address as above

Int J Food Sci Technol 2008 43 (2) 365

Effect of antimicrobial agents and dough conditioners on the shelf-life extension and quality of flat bread, as determined by near-infrared spectroscopy

Arapitsas P, Sjoberg PJR, Turner C// Univ Florence, Dept Pharmaceut Sci, Via Ugo Schiff 6, IT-50119 Sesto Fno, Florence, Italy

Food Chem 2008 109 (1) 219

Characterisation of anthocyanins in red cabbage using high resolution liquid chromatography coupled with photodiode array detection and electrospray ionization-linear ion trap mass spectrometry

Bramanti E, Cavallaro R, Onor M, Zamboni R, D'Ulivo A// CNR, Inst Chem & Phys Processes, Lab Instrumental Anal Chem, IT-56124 Pisa, Italy

Talanta 2008 74 (4) 936

Determination of thiolic compounds as mercury complexes by cold vapour atomic absorption spectrometry and its application to wines

Chen Y, Cai L, Zhao C, Xu HC, Cao CY, Liu Y, Jia L, Yin HX, Chen C, Zhang H\*// \*Sichuan Univ, West China Sch Pharm, 17 Duan 3, Renmin Nan Rd, CN-610041 Chengdu, Peoples Rep China

Food Chem 2008 109 (2) 269

Spectroscopic, stability and radical-scavenging properties of a novel pigment from gardenia

Cho BK, Chayaprasert W, Stroshine RL\*// \*Purdue Univ, Dept Agric & Biol Engn, 225 Sth University St, West Lafayette, In 47907, USA *Postharvest Biol Technol* 2008 **47** (1) 81

Effects of internal browning and watercore on low field (5.4 MHz) proton magnetic resonance measurements of  $T_2$  values of whole apples

Drabek J, Stavek J, Jaluvkova M, Jurcek T, Frebort I// Palacky Univ, Dept Biochem, Slechtitelu 11, CZ-78371 Olomouc, Czech Republic Eur Food Res Technol 2008 **226** (3) 491

Quantification of DNA during winemaking by fluorimetry and *Vitis vinifera* Lespecific quantitative PCR

Fort F, Hayoun L, Valls J, Canals JM, Arola L, Zamora F// Univ Rovira i Virgili, Dept Bioquim & Biotech, Grp Tecnol Enol, ES-43007 Tarragona, Spain *J Sci Food Agric* 2008 **88** (2) 179

A new and simple method for rapid extraction and isolation of high-quality RNA from grape (Vitis vinifera) berries

Gagliano G, Gargano M, Pagano P, Sabatino L, Scordino M\*, Traulo P// \*Minist Politiche Agricole Alimentari & Forestali, Ispettorato Cent Controllo Qual Prod Agroalimentari, Via Varese 45, IT-95123 Catania, Italy

Eur Food Res Technol 2008 226 (5) 991

Liquid chromatography-negative ion electrospray mass spectrometry detection of maleic anhydride-modified wood rosin for assessing quality of commercial citrus fruit coatings

Gutzeit D, Winterhalter P, Jerz G\*// \*Cent Inst Bundeswehr Med Serv, Ingolstadter Landstr 102, DE-85748 Garching, Germany *J Chromatogr A* 2007 **1172** (1) 40

Application of preparative high-speed counter-current chromatography/ electrospray ionization mass spectrometry for a fast screening and fractionation of polyphenols

Hager TJ, Howard LR\*, Liyanage R, Lay JO, Prior RL// \*Univ Arkansas, Dept Food Sci, 2650 Nth Young Ave, Fayetteville, Ar 72704, USA

J Agric Food Chem 2008 **56** (3) 661

Ellagitannin composition of blackberry as determined by HPLC-ESI-MS and MALDI-TOF-MS

Hu CC, Lin JT, Lu FJ, Chou FP, Yang DJ\*// \*Chung Shan Med Univ, Dept Hlth Diet & Restaurant Management, Jianguo Nth Rd Sec 1, Taichung 402, Taiwan Food Chem 2008 **109** (2) 439

Determination of carotenoids in *Dunaliella salina* cultivated in Taiwan and antioxidant capacity of the algal carotenoid extract

Injac R, Srdjenovic B, Prijatelj M, Boskovic M, Karljikovic-Rajic K, Strukelj B// Univ Ljubljana, Fac Pharm, Inst Pharmaceut Biol, Askerceva 7, SI-1000 Ljubljana, Slovenia

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Determination of caffeine and associated compounds in food, beverages, natural products, pharmaceuticals, and cosmetics by micellar electrokinetic capillary chromatography

Jayabalan R, Subathradevi P, Marimuthu S, Sathishkumar M, Swaminathan K\*//
\*Bharathiar Univ, Dept Biotechnol, Microbial Biotechnol Div, Coimbatore, India
Food Chem 2008 109 (1) 227

Changes in free-radical scavenging ability of kombucha tea during fermentation

Joubert E, Manley M, Botha M// ARC Infruitec-Nietvoorbij, Private Bag X5 026, ZA-7599 Stellenbosch, Rep Sth Africa

Phytochem Anal 2008 19 (2) 169

Evaluation of spectrophotometric methods for screening of green rooibos (*Aspalathus linearis*) and green honeybush (*Cyclopia genistoides*) extracts for high levels of bio-active compounds

Jurado JM, Ballesteros O, Alcazar A, Pablos F\*, Martin MJ, Vilchez JL, Navalon A// \*Univ Seville, Fac Chem, Dept Anal Chem, ES-41071 Seville, Spain *Anal Bioanal Chem* 2008 **390** (3) 961

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Kohler N, Wray V, Winterhalter P// TU Braunschweig, Inst Food Chem, Schleinitzstr 20, DE-38106 Braunschweig, Germany

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Preparative isolation of procyanidins from grape seed extracts by high-speed counter-current chromatography

Kurz C, Munz M, Schieber A\*, Carle R// \*Hohenheim Univ, Inst Food Sci & Biotechnol, August-von-Hartmann-Str 3, DE-70599 Stuttgart, Germany Food Chem 2008 **109** (2) 447

Determination of the fruit content of apricot and strawberry jams and spreads and apricot and peach fruit preparations by gravimetric quantification of hemicellulose

Lachenmeier DW, Schmidt B, Bretschneider T// CVUA Karlsruhe, Weissenburger Str 3, DE-76187 Karlsruhe, Germany

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Lee DJ, Schoenberger R, Archibald J, McCollum S// Brigham Young Univ, Dept Elect & Comp Engn, 459 Clyde Bldg, Provo, Ut 84602, USA

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Liquid chromatography/triple quadrupole tandem mass spectrometry with multiple reaction monitoring for optimal selection of transitions to evaluate nutraceuticals from olive-tree materials

Makris DP, Boskou G, Andrikopoulos NK, Kefalas P// Mediterranean Agron Inst Chania, Dept Food Quality & Chem Nat Prod, POB 85, GR-73100 Khania, Greece

Eur Food Res Technol 2008 226 (5) 1075

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Marshall A, Bryant D, Latypova G, Hauck B, Yott P, Morris P, Robbins M// Inst Grassland & Environm Res, Legume Breeding & Genet Team, Plas Gogerddan, Aberystwyth SY23 3EB, Wales

J Agric Food Chem 2008 56 (3) 974

A high-throughput method for the quantification of proanthocyanidins in forage crops and its application in assessing variation in condensed tannin content in breeding programmes for Lotus corniculatus and Lotus uliginosus

Meras ID, Diaz TG, Rodriguez DA// Univ Extremadura, Dept Anal Chem, ES-06071 Badajoz, Spain

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Moros J, Inon FA, Garrigues S\*, De la Guardia A// \*Univ Valencia, Dept Anal Chem, Edifici Jeroni Munoz, 50th Dr Moliner, ES-46100 Valencia, Spain Talanta 2008 74 (4) 632

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Naeve SL, Proulx RA, Hulke BS, O'Neill TA// Univ Minnesota, Dept Agron & Plant Genet, 411 Borlaug Hall, 1991 Upper Buford Circle, St Paul, Mn 55108, USA

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Nielsen CR, Berdal KG, Holst-Jensen A// Natl Veterinary Inst, Sect Feed & Food Microbiol, POB 8156 Dep, NO-0033 Oslo, Norway

Eur Food Res Technol 2008 226 (5) 949

Anchored PCR for possible detection and characterisation of foreign integrated DNA at near single molecule level

Orlandini S, Giannini L, Pinzauti S, Furlanetto S\*// \*Univ Florence, Dept Pharmaceut Sci, Via U Schiff 6, IT-50019 Florence, Italy

Talanta 2008 74 (4) 570

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Perez-Jimenez J, Saura-Calixto F// Inst Frio - CSIC, Dept Metab & Nutr, C/ Jose Antonio Novais, ES-28040 Madrid, Spain

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Anti-oxidant capacity of dietary polyphenols determined by ABTS assay: A kinetic expression of the results

Pongsuwan W, Bamba T, Yonetani T, Kobayashi AK, Fukusaki E\*// \*Osaka Univ, Grad Sch Engn, Dept Biotechnol, Osaka, Japan

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Poupard P, Guyot S, Bernillon S, Renard CMGC// INRA, Rech Cidricoles & Biotransformation Fruits & Legumes, UR117, FR-35653 Le Rheu, France J Chromatogr A 2008 1179 (2) 168

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Reich E, Schibli A, DeBatt A// CAMAG Lab, Sonnenmattstr 11, CH-4132 Muttenz, Switzerland

J AOAC Int 2008 91 (1) 13

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Santana J, Sharpless KE, Nelson BC\*// \*Nat Inst Standards & Technol, Anal Chem Div, Gaithersburg, Md 20899, USA

Food Chem 2008 109 (3) 675

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Shao YN, He Y\*// \*Zhejiang Univ, Coll Biosystems Engn & Food Sci, CN-310029 Hangzhou, Peoples Rep China

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Sinelli N, Casiraghi E\*, Downey G// \*Univ Milan, Dept Food Sci & Technol, Via Celoria 2, IT-20133 Milan, Italy

J Agric Food Chem 2008 56 (3) 922

Studies on proofing of yeasted bread dough using near- and mid-infrared spec-

Srdjenovic B, Djordjevic-Milic V, Grujic N, Injac R, Lepojevic Z// University Novi Sad, Faculty Med, Dept Pharm, Hajduk Veljkova 3, Novi Sad 21000, Serbia

J Chromatogr Sci 2008 **46** (2) 144

Simultaneous HPLC determination of caffeine, theobromine, and theophylline in food, drinks, and herbal products

Tzika ED, Papadimitriou V\*, Sotiroudis TG, Xenakis A// \*Natl Hellenic Res Fdn, Inst Biol Res & Biotechnol, 48 Vas Constantinou Ave, GR-11635 Athens,

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Waiblinger HU, Ernst B, Anderson A, Pietsch K// Chem & Veterinaruntersuchungsamt Freiburg, Bissierstr 5, DE-79114 Freiburg, Germany Eur Food Res Technol 2008 226 (5) 1221

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Weber B, Hermann M, Hartmann B, Joppe H, Schmidt CO, Bertram HJ// Symrise GmbH & Co KG, Corp R&D, Muhlenfeldstr 1, DE-37603 Holzminden, Germany

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Yamauchi Y, Nakamura A, Kohno I, Hatanaka K, Kitai M, Tanimoto T// Doshisha Women's University, Faculty Pharmaceutical Sci, Kyoto 610 0395, Ja-

J Chromatogr A 2008 1177 (1) 190

Quasi-flow injection analysis for rapid determination of caffeine in tea using the sample pre-treatment method with a cartridge column filled with polyvinylpolypyrrolidone

Yang N, Ren GX\*// \*Chinese Acad Agric Sci, Inst Crop Sci, 80 Sth Xueyuan Rd, Haidian Dist, CN-100081 Beijing, Peoples Rep China

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Determination of D-chiro-inositol in tartary buckwheat using high-performance liquid chromatography with an evaporative light-scattering detector

Yang N, Ren GX\*// \*Address as above

J Agric Food Chem 2008 56 (3) 761

Application of near-infrared reflectance spectroscopy to the evaluation of rutin and D-chiro-inositol contents in tartary buckwheat

Zhang HM, Wang J\*, Ye S// \*Zhejiang Univ, Dept Bio-systems Engn, 268 Kaixuan Rd, CN-310029 Hangzhou, Peoples Rep China

Anal Chim Acta 2008 606 (1) 112

Prediction of soluble solids content, firmness and pH of pear by signals of electronic nose sensors

Zhang HM, Wang J\*, Ye S// \*Zhejiang Univ, Dept Bio-systems Engn, 268 Kaixuan Rd, CN-310029 Hangzhou, Peoples Rep China

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Predictions of acidity, soluble solids and firmness of pear using electronic nose