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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. Sayago A, Garcia-Gonzalez DL, Morales MT*, Aparicio R// *Univ Seville, Fac Pharm, Dept Anal Chem, Prof Garcia Gonzalez 2, ES-41012 Seville, Spain *J Agric Food Chem* 2007 **55** (6) 2068

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Zacco E, Galve R, Marco MP, Alegret S*, Pividori MI// *Univ Autonoma Barcelona, Dept Quim, Grp Sensors & Biosensors, ES-08193 Bellaterra, Spain *Biosens Bioelectron* 2007 **22** (8) 1707

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J Agric Food Chem 2007 55 (6) 2079

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Zhang Y, Ren YP, Zhao HM, Zhang Y*// *Zhejiang Univ, Coll Biosyst Engn & Food Sci, Dept Food Sci & Nutr, CN-310029 Hangzhou, Zhejiang, Peoples Rep China

Anal Chim Acta 2007 584 (2) 322

Determination of acrylamide in Chinese traditional carbohydrate-rich foods using gas chromatography with micro-electron capture detector and isotope dilution liquid chromatography combined with electrospray ionization tandem mass spectrometry

Zhang Y, Jiao JJ, Cai ZX, Zhang Y, Ren YP*// *Zhejiang Prov Ctr Dis Prevent & Control, CN-310009 Hangzhou, Peoples Rep China

J Chromatogr A 2007 1142 (2) 194

An improved method validation for rapid determination of acrylamide in foods by ultra-performance liquid chromatography combined with tandem mass spectrometry

Zhao HX, Wang LP, Qiu YM, Zhou ZQ*, Zhong WK, Li X// *China Agric Univ, Coll Sci, CN-100094 Beijing, Peoples Rep China

Anal Chim Acta 2007 586 (1-2) 399

Multiwalled carbon nanotubes as a solid-phase extraction adsorbent for the determination of three barbiturates in pork by ion trap gas chromatography-tandem mass spectrometry (GC/MS/MS) following microwave assisted derivatization

9. Toxins/Allergens

Agui L, Pena-Farfal C, Yanez-Sedeno P*, Pingarron JM// *Univ Complutense Madrid, Fac Chem, Dept Anal Chem, ES-28040 Madrid, Spain

Anal Chim Acta 2007 585 (2) 323

Determination of β -carboline alkaloids in foods and beverages by high-performance liquid chromatography with electrochemical detection at a glassy carbon electrode modified with carbon nanotubes

Asam S, Rychlik M*// *Tech Univ Munich, Lehrstuhl Lebensmittelchem, Lichtenbergstr $4,\,DE{-}85748$ Garching, Germany

Eur Food Res Technol 2007 224 (6) 769

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

Anal Bioanal Chem 2007 387 (5) 1851

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Herndl A, Marzban G, Kolarich D, Hahn R, Boscia D, Hemmer W, Maghuly F, Stoyanova E, Katinger H, Laimer M*// *BOKU, Dept Biotechnol, Plant Biotechnol Unit, Muthgasse 18, House B, AT-1190 Vienna, Austria *Electrophoresis* 2007 **28** (3) 437

Mapping of *Malus domestica* allergens by 2D electrophoresis and IgE-reactivity Hess P, McCarron P, Quilliam MA// Inst Marine, Galway, Rep Ireland

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Liazid A, Palma M*, Brigui J, Barroso CG// *Univ Cadiz, Fac Ciencias, Dept Quim Anal, Grp Invest Quim Anal Vino & Prod Agroalimentari, ES-11510 Cadiz, Spain

Talanta 2007 71 (2) 976

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Liu RR, Yu Z, He QH, Xu Y*// *Jiangxi Sci & Technol Normal Univ, Sch Life Sci, Fenglin Rd, CN-330013 Nanchang, Jiangxi, Peoples Rep China Food Control 2007 **18** (7) 872

An immunoassay for ochratoxin A without the mycotoxin

Maragos CM, Appell M// USDA/ARS, Mycotoxin Res Unit, 1815 Nth University St, Peoria, Il 61604, USA

J Chromatogr A 2007 1143 (1-2) 252

Capillary electrophoresis of the mycotoxin zearalenone using cyclodextrin-enhanced fluorescence

McCarron P, Emteborg H, Hess P// Marine Inst, Marine Environm & Food Safety Serv, Oranmore, Galway, Rep Ireland

Anal Bioanal Chem 2007 387 (7) 2475

Freeze-drying for the stabilisation of shellfish toxins in mussel tissue (Mytilus edulis) reference materials

McCarron P, Kotterman M, De Boer J, Rehmann N, Hess P// Address as above Anal Bioanal Chem 2007 387 (7) 2487

Feasibility of gamma irradiation as a stabilisation technique in the preparation of tissue reference materials for a range of shellfish toxins

McCarron P, Burrell S, Hess P// Address as above

Anal Bioanal Chem 2007 387 (7) 2495

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Piermarini S, Micheli L*, Ammida NHS, Palleschi G, Moscone D// *Univ Roma Tor Vergata, Dipt Sci & Tecnol Chim, Via Ricerca Scientifica, IT-00133 Rome, Italy

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Rajkovic A, Uyttendaele M*, Debevere J// *University Ghent, Department Food Safety & Food Qual, Lab Food Microbiol & Food Preservat, BE-9000 Ghent, Belgium

Int J Food Microbiol 2007 114 (1) 92

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J Chromatogr A 2007 1143 (1-2) 48

Simultaneous determination of multi-component mycotoxin contaminants in foods and feeds by ultra-performance liquid chromatography tandem mass spectrometry

Saha D, Acharya D, Roy D, Shrestha D, Dhar TK*// *Indian Inst Chem Biol, Drug Dev Diagnost & Biotechnol Div, 4 Raja SC Mullick Rd, IN-700032 Kolkata, India

Anal Chim Acta 2007 584 (2) 343

Simultaneous enzyme immunoassay for the screening of aflatoxin B1 and ochratoxin A in chili samples

Sobolev VS// USDA/ARS, Natl Peanut Res Lab, POB 509, Dawson, Ga 39842, USA

J Agric Food Chem 2007 55 (6) 2136

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Suzuki T, Horie Y, Koike K, Satake M, Oshima Y, Iwataki M, Yoshimatsu S// Tohoku Natl Fisheries Res Inst, 3-27-5 Shinhama, Shiogama, Miyagi 985 0001, Japan

J Chromatogr A 2007 1142 (2) 172

Yessotoxin analogues in several strains of Protoceratium reticulatum in Japan determined by liquid chromatography-hybrid triple quadrupole/linear ion trap mass spectrometry

Taguchi H, Watanabe S, Hirao T, Akiyama H, Sakai S, Watanabe T, Matsuda R, Urisu A, Maitani T// House Food Corp, Somatech Ctr, 1-4 Takanodai, Yotsukaido, Chiba 284 0033, Japan

J Agric Food Chem 2007 55 (5) 1649

Specific detection of potentially allergenic kiwifruit in foods using polymerase chain reaction

10. Additives

Barbosa J, Moura S, Barbosa R, Ramos F*, Da Silveira MIN// *Univ Coimbra, Fac Farm, Grp Bromatol, Ctr Estudos Farmaceut, PT-3000-295 Coimbra, Portugal

Anal Chim Acta 2007 586 (1-2) 359

Determination of nitrofurans in animal feeds by liquid chromatography-UV photodiode array detection and liquid chromatography-ionspray tandem mass spectrometry

De Baere S, De Backer P// University Ghent, Fac Med Vet, Dept Pharmacol Toxicol Biochem & Organ Physiol, Salisburylaan 133, BE-9820 Merelbeke, Belgium

Anal Chim Acta 2007 586 (1-2) 319

Quantitative determination of amoxicillin in animal feed using liquid chromatography with tandem mass spectrometric detection

Song YZ, Zhou JF, Song Y, Xie JM, Ye Y// Huaiyin Teaching Coll, Dept Chem, Jiangsu Prov Key Lab Chem Low-Dimensional Materials, CN-223300 Huaian, Peoples Rep China

Comput Biol Med 2007 37 (3) 315

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Van Poucke C, Detavernier C, Van Cauwenberghe R, Van Peteghem C// Univ Ghent, Dept Bioanal, Lab Food Anal, Harelbekstr 72, BE-9000 Ghent, Belgium Anal Chim Acta 2007 586 (1-2) 35

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Al-Marzouqi AH, Rao MV, Jobe B// United Arab Emirates Univ, Dept Chem & Petroleum Engn, POB 17555, Al Ain, United Arab Emirates J Liq Chromatogr Relat Technol 2007 30 (4) 463

Comparative evaluation of SFE and steam distillation methods on the yield and composition of essential oil extracted from spearmint (Mentha spicata)

Bhattacharyya N, Seth S, Tudu B, Tamuly P, Jana A, Ghosh D, Bandyopadhyay R, Bhuyan M// Ctr Dev Adv Comp, IN-700091 Kolkata, India

J Food Eng 2007 80 (4) 1146 Monitoring of black tea fermentation process using electronic nose

Caligiani A, Acquotti D, Palla G, Bocchi V// Univ Parma, Dipt Chim Organ & Ind, Via Usberti 17/A, IT-43100 Parma, Italy

Anal Chim Acta 2007 585 (1) 110

Identification and quantification of the main organic components of vinegars by high resolution ¹H NMR spectroscopy

Carrillo JD. Tena MT*// *Univ La Rioja, Dept Chem, C/ Madre de Dios 51, ES-26006 La Rioja, Spain

Anal Bioanal Chem 2007 387 (7) 2547

Determination of ethylphenols in wine by in situ derivatisation and headspace solid-phase microextraction-gas chromatography-mass spectrometry

De Souza PP, Siebald HGL*, Augusti DV, Neto WB, Amorim VM, Catharino RR, Eberlin MN, Augusti R// *Univ Fed Minas Gerais, Dept Chem, BR-31270-901 Belo Horizonte, MG, Brazil

J Agric Food Chem 2007 55 (6) 2094

Electrospray ionization mass spectrometry fingerprinting of Brazilian artisan cachaca aged in different wood casks

Ferreira V, Ortin N, Cacho JF// Univ Zaragoza, Fac Sci, Dept Anal Chem, Lab Flavor Anal & Enol, ES-50009 Zaragoza, Spain

J Chromatogr A 2007 1143 (1-2) 190

Optimization of a procedure for the selective isolation of some powerful aroma thiols - Development and validation of a quantitative method for their determination in wine

Frank O, Blumberg S, Kunert C, Zehentbauer G, Hofmann T*// *Tech Univ Munich, Lehrstuhl Lebensmittelchem & Molek Sensorik, Lise Meitner Str 34, DE-85350 Freising Weihenstephan, Germany J Agric Food Chem 2007 55 (5) 1945

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Granitto PM, Biasioli F*, Aprea E, Mott D, Furlanello C, Mark TD, Gasperi F// *IASMA, Via E Mach 2, IT-38010 San Michele all'Adige, TN, Italy Sensor Actuator B Chem 2007 121 (2) 379

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Hayashi N, Chen RG, Ikezaki H, Ujihara T, Kitajima H, Mizukami Y// Natl Inst Vegetable & Tea Sci, 2769 Kanaya, Shizuoka 428 8501, Japan Biosci Biotechnol Biochem 2007 71 (2) 587

Evaluation of the astringency of black tea by a taste sensor system: Scope and limitation

Jalali-Heravi M, Zekavat B, Sereshiti H// Sharif Univ Technol, Dept Chem, POB 11365, Tehran, Iran

J Chromatogr A 2007 1143 (1-2) 215

Use of gas chromatography-mass spectrometry combined with resolution methods to characterize the essential oil components of Iranian cumin and caraway

Lopez R, Lapena AC, Cacho J, Ferreira V// Univ Zaragoza, Fac Sci, Dept Anal Chem, ES-50009 Zaragoza, Spain

J Chromatogr A 2007 1143 (1-2) 8

Quantitative determination of wine highly volatile sulfur compounds by using automated headspace solid-phase microextraction and gas chromatography-pulsed flame photometric detection - Critical study and optimization of a new procedure

Mahattanatawee K, Perez-Cacho PR, Davenport T, Rouseff R*// *Univ Florida, Inst Food & Agric Sci, Citrus Res & Educat Ctr, 700 Expt Stn Rd, Lake Alfred, FI 33850, USA

J Agric Food Chem 2007 55 (5) 1939

Comparison of three lychee cultivar odor profiles using gas chromatographyolfactometry and gas chromatography-sulfur detection

Pizarro C, Perez-del-Notario N, Gonzalez-Saiz JM// Univ La Rioja, Dept Chem, C/ Madre de Dios 51, ES-26006 Logrono, Spain

J Chromatogr A 2007 1143 (1-2) 26

Optimisation of a headspace solid-phase microextraction with on-fiber derivatisation method for the direct determination of haloanisoles and halophenols in wine

Pizarro C, Perez-del-Notario N, Gonzalez-Saiz JM// Address as above J Chromatogr A 2007 1143 (1-2) 176

Determination of Brett character responsible compounds in wines by using multiple headspace solid-phase microextraction

Richter J, Schellenberg I*// *Univ Appl Sci, Inst Bioanal Sci - IBAS, Ctr Life Sci, Strenzfelder Allee 28, DE-06406 Bernburg, Germany Anal Bioanal Chem 2007 **387** (6) 2207

Comparison of different extraction methods for the determination of essential oils and related compounds from aromatic plants and optimization of solid-phase microextraction/gas chromatography

Ting PL, Kay S, Ryder D// Miller Brewer Co, Technical Ctr, Milwaukee, Wi, USA

J Am Soc Brew Chemist 2007 65 (1) 9

Separation and identification of stereoisomers of isomerized α -acid derivatives by HPLC/DAD and electrospray HPLC/MS

Xie WC, Tan ZC*, Gu XH, Tang J, Wang GY, Luo CR, Sun LX// *Guangdong Ocean Univ, Sch Food Sci & Technol, CN-524025 Zhanjiang, Peoples Rep China

J Therm Anal Calorim 2007 87 (2) 505

Thermal decomposition of two synthetic glycosides by TG, DSC and simultaneous Py-GC-MS analysis

12. Organic acids

Campuzano S, Gamella M, Serra B, Reviejo AJ, Pingarron JM*// *Univ Complutense Madrid, Faculty Chemistry, Dept Anal Chem, ES-28040 Madrid, Spain

J Agric Food Chem 2007 55 (6) 2109

Integrated electrochemical gluconic acid biosensor based on self-assembled monolayer-modified gold electrodes. Application to the analysis of gluconic acid in musts and wines

Gallarta F, Sainz FJ, Saenz C*// *Univ La Rioja, Dept Chem, Anal Chem Lab, Madre de Dios 51, ES-26006 Logrono, Spain

Anal Bioanal Chem 2007 **387** (6) 2297

Fluorescent sensing layer for the determination of L-malic acid in wine

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Binke R, Spiegel K, Schwagele F// Inst Dr Erdmann, Amselweg 12, DE-33378 Rheda Wiedenbruck, Germany

Fleischwirtschaft 2007 87 (2) 93

Identification of animal tissue in meat products by means of PCR (German)

Buratti S, Benedetti S, Cosio MS// Univ Milan, Dipt Sci & Tecnol Alimentari & Microbiol, Via Celoria 2, IT-20133 Milan, Italy

Talanta 2007 71 (3) 1387

Evaluation of the antioxidant power of honey, propolis and royal jelly by amperometric flow injection analysis

Laube I, Zagon J, Broll H// Bundeinst Risikobewertung, Thielallee 88-92, DE-14195 Berlin, Germany

Int J Food Sci Technol 2007 42 (3) 336

Quantitative determination of commercially relevant species in foods by real-time PCR

Man YBC, Aida AA, Raha AR, Son R// Univ Pertanian Malaysia, Inst Halal Food, MY-43400 Serdang, Selangor, Malaysia

Food Control 2007 18 (7) 885

Identification of pork derivatives in food products by species-specific polymerase chain reaction (PCR) for halal verification

Myers MJ, Yancy HF, Farrell DE, Washington JD, Deaver CM, Frobish RA// Off Res, Ctr Vet Med, 8401 Muirkirk Rd, Laurel, Md 20708, USA

J Food Prot 2007 70 (3) 692

Assessment of two enzyme-linked immunosorbent assay tests marketed for detection of ruminant proteins in finished feed

14. Plant & microbial products

Bravo L, Goya L, Lecumberri E// Inst Frio - CSIC, Dept Metab & Nutr, C/ Jose Antonio Novais 10, Ciudad Univ, ES-28040 Madrid, Spain

Food Res Int 2007 40 (3) 393

LC/MS characterization of phenolic constituents of mate (*Ilex paraguariensis*, St. Hil.) and its antioxidant activity compared to commonly consumed beverages

Calderone G, Guillou C, Reniero F, Naulet N// Commission European Communities, Joint Research Centre, Inst Hlth & Consumer Protect, Phys & Chem Exposure Unit, BEVABS-TP281 JRC-Ispra, Via Fermi 2, IT-20127 Milan, VA, Italy

Food Res Int 2007 40 (3) 324

Helping to authenticate sparkling drinks with $^{13}\rm C/^{12}\rm C$ of CO_ by gas chromatography-isotope ratio mass spectrometry

Cho IH, Kim YS, Choi HK*// *Chung Ang Univ, Coll Pharm, Seoul 156 756, South Korea

J Pharm Biomed Anal 2007 **43** (3) 900

Metabolomic discrimination of different grades of pine-mushroom (Tricholoma matsutake Sing.) using ¹H NMR spectrometry and multivariate data analysis

Ciosek P, Wroblewski W// Warsaw Univ Technol, Dept Anal Chem, Noakowskiego 3, PL-00664 Warsaw, Poland

Talanta 2007 71 (2) 738

Performance of selective and partially selective sensors in the recognition of beverages

Cozzolino D, Kwiatkowski MJ, Waters EJ, Gishen M// Australian Wine Res Inst, POB 197, Glen Osmond, SA 5064, Australia

Anal Bioanal Chem 2007 387 (6) 2289

A feasibility study on the use of visible and short wavelengths in the near-infrared region for the non-destructive measurement of wine composition

De Almeida AA, Scarminio IS*// *Univ Estadual Londrina, Dept Quim, Lab Quimiometr Ciencias Nat, CP6001, BR-86051-990 Londrina, Parana, Brazil J Sep Sci 2007 **30** (3) 414

Statistical mixture design optimization of extraction media and mobile phase compositions for the characterization of green tea

Fenske M// Univ Bayreuth, Dept Anim Physiol, POB 101251, DE-95440 Bayreuth, Germany

Chromatographia 2007 65 (3-4) 233

Caffeine determination in human saliva and urine by TLC and ultraviolet absorption densitometry

Fernandez-Lopez JA, Castellar R, Obon JM, Almela L// Polytech Univ Cartagena, Dept Chem Engn, Paseo Alfonso XIII 52, ES-30203 Cartagena, Murcia, Spain

J Chromatogr Sci 2007 45 (3) 120

Monitoring by liquid chromatography coupled to mass spectrometry the impact of pH and temperature on the pigment pattern of cactus pear fruit extracts

Ksenzhek O, Petrova S*, Kolodyazhny M// *Ukranian State Univ Chem Technol, 8 Gagarin prospect, UA-49005 Dnepropetrovsk, Ukraine

Electroanalysis 2007 **19** (2-3) 389 Redox spectra of wines

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Lin Y, Liao MJ, Yang GP*, Yu WG, Guan HS, Fan W, Dong JJ// *Ocean Univ China, Coll Marine Life Sci, Qingdao, Peoples Rep China

J Am Soc Brew Chemist 2007 65 (1) 47Identification of barley varieties used in beer production by microsatellite DNA

Identification of barley varieties used in beer production by microsatellite DNA markers

Mane C, Sommerer N, Yalcin T, Cheynier V, Cole RB, Fulcrand H// INRA UMR1803 Sci Oenol, FR-34060 Montpellier, France

Anal Chem 2007 79 (6) 2239

Assessment of the molecular weight distribution of tannin fractions through MALDI-TOF MS analysis of protein-tannin complexes

Marin S, Vinaixa M, Brezmes J, Llobet E, Vilanova X, Correig X, Ramos AJ, Sanchis V// Lleida Univ, Dept Food Technol, CeRTA-UTPV, Alcalde Rovira 191, ES-25198 Lleida, Spain

Int J Food Microbiol 2007 114 (1) 10

Use of a MS-electronic nose for prediction of early fungal spoilage of bakery products

Matsumoto H, Ikoma Y, Kato M, Kuniga T, Nakajima N, Yoshida T// Natl Inst Fruit Tree Sci, Okitsu Citrus Res Stn, Shimizu Okitsunakacho, Shizuoka 424 029, Japan

J Agric Food Chem 2007 55 (6) 2356

Quantification of carotenoids in citrus fruit by LC-MS and comparison of patterns of seasonal changes for carotenoids among citrus varieties

Murray SR, Butler RC, Hardacre AK, Timmerman-Vaughan GM// New Zealand Inst Crop & Food Res Ltd, POB 4704, Christchurch, New Zealand J Agric Food Chem 2007 55 (6) 2231

Use of quantitative real-time PCR to estimate maize endogenous DNA degradation after cooking and extrusion or in food products

Pizarro C, Esteban-Diez I, Gonzalez-Saiz JM// Univ La Rioja, Dept Chem, C/ Madre de Dios 51, ES-26006 Logrono, Spain

Anal Chim Acta 2007 585 (2) 266

Mixture resolution according to the percentage of *robusta* variety in order to detect adulteration in roasted coffee by near infrared spectroscopy

Reitzenstein S, Roesch P, Strehle MA, Berg D, Baranska M, Schulz H, Rudloff E, Popp J*// *Univ Jena, Inst Phys Chem, Helmholtzweg 4, DE-07743 Jena, Germany

J Raman Spectrosc 2007 38 (3) 301

Nondestructive analysis of single rapeseeds by means of Raman spectroscopy

Xie LJ, Ying YB*, Ying TJ, Yu HY, Fu XP// *Zhejiang Univ, Coll Biosyst Engn & Food Sci, 268 Kaixuan St, CN-310029 Hangzhou, Peoples Rep China Anal Chim Acta 2007 **584** (2) 379

Discrimination of transgenic tomatoes based on visable/near-infrared spectra