

Contents of Volume 54

Number 1

- 1 Volatile compounds of rehydrated French beans, bell peppers and leeks. Part II. Gas chromatography/sniffing port analysis and sensory evaluation
S. M. VAN RUTH, J. P. ROOZEN, J. L. COZIJNSEN & M. A. POSTHUMUS (The Netherlands)
 - 9 Hypoglycaemic effect of Stigmast-4-en-3-one, from *Parkia speciosa* empty pods
F. JAMALUDDIN, S. MOHAMED & Md. N. LAJIS (Malaysia)
 - 15 Specificity and stability of the carboxypeptidase activity in ripe, ungerminated seeds of *Theobroma cacao* L.
G. BYTOF, B. BIEHL, H. HEINRICHS & J. VOIGT (Germany)
 - 23 Interactions of Fe(II), Ca(II) and Fe(III) with high dietary fibre materials: A physicochemical approach
M. TORRE, A. R. RODRIGUEZ & F. SAURA-CALIXTO (Spain)
 - 33 Lipoxygenases and the quality of foods
D. S. ROBINSON, Z. WU, C. DOMONEY & R. CASEY (UK)
 - 45 Fatty acid composition of some Malaysian freshwater fish
S. A. RAHMAN, T. S. HUAH, O. HASSAN & N. M. DAUD (Malaysia)
 - 51 Influence of *Saccharomyces cerevisiae* var. *uvarum* on histamine and tyramine formation during beer fermentation
M. IZQUIERDO-PULIDO, J. FONT-FÁBREGAS & C. VIDAL-CAROU (Spain)
 - 55 A comparative study of some functional properties of *Azelia africana* and *Glycine max* flours
J. C. ONWELUZO, K. C. ONUOHA & Z. A. OBANU (Nigeria)
 - 61 Calcium oxalate and physico-chemical properties of cocoyam (*Colocasia esculenta* and *Xanthosoma sagittifolium*) tuber flours as affected by processing
C. I. IWUOHA & F. A. KALU (Nigeria)
 - 67 Chemical evaluation of the nutritive value and changes in ascorbic acid content during storage of the fruit of 'bitter kola' (*Garcinia kola*)
M. I. DOSUNMU & E. C. JOHNSON (Nigeria)
 - 73 Fractionation of volatiles from blackcurrant (*Ribes nigrum* L.) by different extractive methods
J. PÍRY, A. PRÍBELA, J. ĎURČANSKÁ & P. FARKAŠ (Slovakia)
- ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION**
- 79 The metabolism of copper during pregnancy—a review
H. J. McARDLE (UK)
 - 85 The development of a monoclonal antibody-based ELISA for the determination of histamine in food: application to fishery products and comparison with the HPLC assay
D. SERRAR, R. BREBANT, S. BRUNEAU & G. A. DENOYÉL (France)
 - 93 Chemical characterization of pineapple juices and nectars. Principal components analysis
M. CÁMARA, C. DÍEZ & E. TORIJA (Spain)
 - 101 Development and evaluation of an HPLC method for the analysis of carotenoids in foods, and the measurement of the carotenoid content of vegetables and fruits commonly consumed in the UK
D. J. HART & K. J. SCOTT (UK)
 - 113 Analytical study of the mineral and sugar fractions of peach liqueurs
L. GUTIÉRREZ, A. ZAPATA, L. COLL & C. DÍEZ (Spain)
 - 119 Bibliography of analytical, nutritional and clinical methods

Number 2

- 127 Changes in antioxidant activity and components of methanolic extracts of peanut hulls irradiated with ultraviolet light
P.-D. DUH & G.-C. YEN (Taiwan)
- 133 Trace element content of Malaysian cockles (*Anadara granosa*)
N. IBRAHIM (Malaysia)
- 137 Residues and persistence of some organophosphorus insecticides applied to cabbage plants
M. A. ABO-EL-SEOUD, A. M. SHAMS-EL-DIN, L. N. DANIAL & S. M. AHMED (Egypt)
- 141 Distribution of organochlorine pesticides in the Egyptian aquatic ecosystem
A. A. K. ABOU-ARAB, M. N. E. GOMAA, A. BADAWEY & K. NAGUIB (Egypt)
- 147 Effect of fermentation and germination on the *in vitro* protein digestibility of low and high tannin cultivars of sorghum
A. MONEIM, O. EL KHALIFA & A. H. EL TINAY (Sudan)
- 151 Effect of gamma-irradiation and extended storage on chemical quality in onion (*Allium cepa* L.)
C. A. CROCI, S. A. BANEK & O. A. CURZIO (Argentina)
- 155 Changes in the concentration of biogenic amines and application of tyramine sensor during storage of beef
Y. YANO, N. KATAHO, M. WATANABE, T. NAKAMURA & Y. ASNO (Japan)
- 161 The role of fungi in the production of chloroanisoles in general purpose freight containers
J. L. HILL, A. D. HOCKING & F. B. WHITFIELD (Australia)
- 167 Physicochemical attributes and pollen spectrum of some unifloral Spanish honeys
C. PÉREZ-ARQUILLUÉ, P. CONCHELLO, A. ARIÑO, T. JUAN & A. HERRERA (Spain)
- 173 Binding of iodide to bovine serum albumin and protamine studied with an ion-selective electrode
E. AYRANCI (Turkey)
- 177 The effect of cooking, autoclaving and germination on the nutritional quality of faba beans
A. H. KHALIL & E. H. MANSOUR (Egypt)
- 183 Pyruvate and flavor development in macerated onions (*Allium cepa* L.) by γ -glutamyl transpeptidase and exogenous C-S lyase
T. HANUM, N. K. SINHA, D. E. GUYER & J. N. CASH (USA)
- 189 Carotene content of some common and less familiar foods of plant origin
K. BHASKARACHARY, D. S. SANKAR RAO, Y. G. DEOSTHALE & V. REDDY (India)
- 195 Changes in protein components and storage stability of Royal Jelly under various conditions
C. CHEN & S.-Y. CHEN (Taiwan)
- 201 Turbidity measurement of heated egg proteins using a microplate system
N. KITABATAKE & Y.-I. KINEKAWA (Japan)
- 205 Laboratory simulation of captan residues degradation during apple processing
J. ALARY, D. BESCOS, M. C. MONGE, L. DEBRAUWER & G. F. BORIES (France)

ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION

- 213 Review of methods for the analysis of triglycerides in milk fat: application for studies of milk quality and adulteration
M. LIPP (Italy)
- 223 Enzyme-assisted hexane extraction of soya bean oil
H. DOMÍNGUEZ, M. J. NÚÑEZ & J. M. LEMA (Spain)
- 233 Bibliography of analytical, nutritional and clinical methods
- 241 Book reviews
- 243 Announcement

Number 3

- 245 Leaching of lead from local ceramic tableware
N. MOHAMED, Y. M. CHIN & F. W. POK (Malaysia)
- 251 Proposal of a mechanism for the inhibition of all-*trans*- β -carotene autoxidation at elevated temperature by *N*-(2-phenylethyl)-3,4-diphenylpyrrole
K. PAPADOPOULOU & J. M. AMES (UK)

- 255 Sorption of β -carotene from solutions of a food colorant powder into low-density polyethylene and its effect on the adhesion between layers in laminated packaging material
T. J. NIELSEN & G. E. OLAFSSON (Sweden)
- 261 Studies on Tanzanian *Acacia* gums. Part 3. Some properties of gum exudates from the series *Vulgares* and *Gummiferae*
G. S. MHINZI & H. D. J. MROSSO (Tanzania)
- 265 Compositional studies on edible tropical species of mushrooms
V. A. ALETOR (Nigeria)
- 269 Sono-oscillatory mobilisation of bound precarthamine from flower florets of dyer's saffron
K. SAITO & K.-I. MIYAKAWA (Japan)
- 273 Clonal variation in the individual theaflavin levels and their impact on astringency and sensory evaluations
P. O. OWUOR & M. OBANDA (Kenya)
- 279 Biochemical and physical changes in fruits of four guava cultivars during growth and development
R. E. EL-BULUK, E. E. BABIKER & A. H. EL TINAY (Sudan)
- 283 The effect of eating on aroma release from strawberries
K. E. INGHAM, R. S. T. LINFORTH & A. J. TAYLOR (UK)
- 289 Influence of extrusion variables on subsequent saccharification behaviour of sago starch
S. GOVINDASAMY (Republic of Singapore), O. H. CAMPANELLA (New Zealand) & C. G. OATES (Republic of Singapore)
- 297 Recycling study of some heavy metals in the Egyptian aquatic ecosystem
M. N. E. GOMAA (Egypt)
- 305 Chemical composition of date varieties as influenced by the stage of ripening
I. A. AHMED, A. W. K. AHMED (United Arab Emirates) & R. K. ROBINSON (UK)
- 311 Accumulation of lead, zinc and cadmium in plant seeds growing in metalliferous habitats in Bulgaria
K. STEFANOV, K. SEIZOVA, N. YANISHLIEVA, E. MARINOVA & S. POPOV (Bulgaria)

ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION

- 315 Effect of polysaccharides on the colour of anthocyanins
C. E. LEWIS, J. R. L. WALKER & J. E. LANCASTER (New Zealand)
- 321 Discrimination between *Coffea arabica* and *Coffea canephora* variant *robusta* beans using infrared spectroscopy
E. K. KEMSLEY, S. RUAULT & R. H. WILSON (UK)
- 327 Determination and occurrence of various tetrahydro- β -carboline-3-carboxylic acids and the corresponding *N*-nitroso compounds in foods and alcoholic beverages
N. P. SEN, S. W. SEAMAN, B. P.-Y. LAU, D. WEBER & D. LEWIS (Canada)
- 339 Bibliography of analytical, nutritional and clinical methods

Number 4

- 347 Editorial Statement

RAPID COMMUNICATIONS

- 349 Analysis of non-coloured phenolic compounds in red wines. A comparison of high-performance liquid chromatography and capillary zone electrophoresis
C. GARCIA-VIGUERA (Spain) & P. BRIDLE (UK)
- 353 A rapid method for separation of anomeric saccharides using a cyclodextrin bonded phase and for investigation of mutarotation
D. SCHUMACHER & L. W. KROH (Germany)

GENERAL PAPERS

- 357 A comparative rheological study of heat and high pressure induced whey protein gels
J. VAN CAMP & A. HUYGHEBAERT (Belgium)
- 365 Effect of intermittent frying and frying medium on the quality of potato chips
MEENAKSHI RANI & G. S. CHAUHAN (India)
- 369 Changes in organoleptic quality during ripening of cheese made from cows and soya milk blends, using microbial rennet
MEENAKSHI RANI & N. S. VERMA (India)

- 377 Effects of antioxidants on the stability of triacylglycerols and methyl esters of fatty acids of sunflower oil
N. VI. YANISHLIEVA & E. M. MARINOVA (Bulgaria)
- 383 Physical-chemical changes during extraction and clarification of guava juice
I. M. BRASIL, G. A. MAIA & R. W. DE FIGUEIREDO (Brazil)
- 387 Retention of aroma compounds by proteins in aqueous solution
P. LANDY, C. DRUAUX & A. VOILLEY (France)
- 393 Kinetics and equilibria of tea infusion —Part 12. Equilibrium and kinetic study of mineral ion extraction from black Assam Bukial and green Chun Mee teas
M. SPIRO & P.-L. L. LAM (UK)
- 397 Kinetics of the oligosaccharide-glycine-sulphite reaction: relationship to the browning of oligosaccharide mixtures
B. L. WEDZICHA & C. KEDWARD (UK)
- 403 The endogenous vitamin K₁ content of bovine milk: temporal influence of season and lactation
H. E. INDYK & D. C. WOOLLARD (New Zealand)
- 409 Comparison of chemical composition of striped bass (*Morone saxatilis*) from three Chesapeake Bay tributaries with those of two aquaculture hybrid striped bass types
C. KARAHADIAN, K. P. FOWLER & D. H. COX (USA)

ANALYTICAL, NUTRITIONAL AND CLINICAL METHODS SECTION

- 419 Determination of total fat and saturated fat in foods by packed column gas-liquid chromatography after acid hydrolysis
J. J. RADER, G. ANGYAL, R. G. O'DELL, C. M. WEAVER, A. J. SHEPPARD & M. P. BUENO (USA)
- 429 Comparison of a HPLC and radioprotein-binding assay for the determination of folates in milk and blood samples
K. WIGERTZ & M. JÄGERSTAD (Sweden)
- 437 The identification of vegetable matter using Fourier Transform Infrared Spectroscopy
P. S. BELTON, E. K. KEMSLEY, M. C. MCCANN, S. TTOFIS, R. H. WILSON (UK) and I. DELGADILLO (Portugal)
- 443 Bibliography of analytical, nutritional and clinical methods
- 451 Book reviews
- 453 Announcements
- 455 Erratum
- 457 Contents of Volume 54