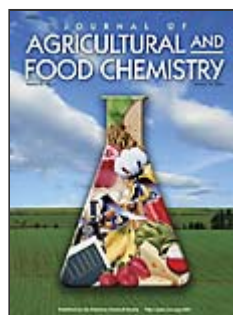


ACS Publications: High Quality, High Impact

<http://pubs3.acs.org/acs/journals/toc.page?incoden=jafcau&indecade=0&involume=54&inissue=20>

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY



Chemistry and biochemistry of agriculture and food along with safety, composition and processing; including feeds, pesticides, veterinary drugs, plant growth regulators, fertilizers, and other agro-chemicals with their metabolism, toxicology, and environmental fate and the chemical processes involved in nutrition, phytonutrients, flavors, and aromas.

Editors: James N. Seiber & [Associate Editors](#)

Volume: 55, 26 issues

[ASAP Articles](#) | [Previous Issue](#) | [Next Issue](#) |  [Printer-friendly version](#)

Table of Contents

Vol. 54, No. 20: October 4, 2006

ANALYTICAL METHODS

Select Citation |  [Feedback](#) |  [Purchase](#)

Development and Use of an Attenuated Total Reflectance/Fourier Transform Infrared (ATR/FT-IR) Spectral Database To Identify Foreign Matter in Cotton

David S. Himmelsbach, John W. Hellgeth, and David D. McAlister

pp 7405 - 7412; **(Article)** DOI: [10.1021/jf052949g](https://doi.org/10.1021/jf052949g)

[Abstract](#) Full: [HTML](#) / [PDF](#) (740K)

Select Citation |  [Feedback](#) |  [Purchase](#)

Investigation of Sample Treatment Steps for the Analysis of Polycyclic Aromatic Hydrocarbons in Ground Coffee

Justin Koffi Houessou, Corine Delteil, and Valérie Camel

pp 7413 - 7421; **(Article)** DOI: [10.1021/jf060802z](https://doi.org/10.1021/jf060802z)

[Abstract](#) Full: [HTML](#) / [PDF](#) (129K)

Select Citation |  [Feedback](#) |  [Purchase](#)

HPLC Quantification of Sphingolipids in Soybeans with Modified Palmitate Content

Liping Wang, Tong Wang, and Walter R. Fehr

pp 7422 - 7428; **(Article)** DOI: [10.1021/jf061624c](https://doi.org/10.1021/jf061624c)[Abstract](#) Full: [HTML](#) / [PDF](#) (221K) Select Citation |  [Feedback](#) | [\\$ Purchase](#)**High-Throughput Relative DPPH Radical Scavenging Capacity Assay**

Zhihong Cheng, Jeffrey Moore, and Liangli (Lucy) Yu

pp 7429 - 7436; **(Article)** DOI: [10.1021/jf0611668](https://doi.org/10.1021/jf0611668)[Abstract](#) Full: [HTML](#) / [PDF](#) (131K) [Supporting Info](#) Select Citation |  [Feedback](#) | [\\$ Purchase](#)**Measurement of Soluble Solids Contents and pH in Orange Juice Using Chemometrics and Vis-NIRS**

Haiyan Cen, Yong He, and Min Huang

pp 7437 - 7443; **(Article)** DOI: [10.1021/jf061689f](https://doi.org/10.1021/jf061689f)[Abstract](#) Full: [HTML](#) / [PDF](#) (220K) Select Citation |  [Feedback](#) | [\\$ Purchase](#)**Pro-oxidant Activity of Oleuropein Determined in Vitro by Electron Spin Resonance Spin-Trapping Methodology**

Armando Mazziotti, Fabio Mazzotti, Manuela Pantusa, Luigi Sportelli, and Giovanni Sindona

pp 7444 - 7449; **(Article)** DOI: [10.1021/jf060982c](https://doi.org/10.1021/jf060982c)[Abstract](#) Full: [HTML](#) / [PDF](#) (103K) Select Citation |  [Feedback](#) | [\\$ Purchase](#)**Simultaneous Determination of Ethidimuron, Methabenzthiazuron, and Their Two Major Degradation Products in Soil**

Florence Lagarde, Thomas Puetz, Joachim Dressel, and Fritz Fuehr

pp 7450 - 7459; **(Article)** DOI: [10.1021/jf061042v](https://doi.org/10.1021/jf061042v)[Abstract](#) Full: [HTML](#) / [PDF](#) (229K) Select Citation |  [Feedback](#) | [\\$ Purchase](#)**HPLC-UV Method for Nicotine, Strychnine, and Aconitine in Dairy Products**

Joseph E. Jablonski, Joseph E. Schlessler, and Purnima Mariappagoudar

pp 7460 - 7465; **(Article)** DOI: [10.1021/jf061115a](https://doi.org/10.1021/jf061115a)[Abstract](#) Full: [HTML](#) / [PDF](#) (116K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Authentication of Coffee by Means of PCR-RFLP Analysis and Lab-on-a-Chip Capillary Electrophoresis

Stelios Spaniolas, Sean T. May,, Malcolm J. Bennett, and Gregory A. Tucker
pp 7466 - 7470; **(Article)** DOI: [10.1021/jf061164n](https://doi.org/10.1021/jf061164n)

[Abstract](#) Full: [HTML](#) / [PDF](#) (102K)

 Select Citation |  [Feedback](#) | [\\$ Purchase](#)

A Strategy for Annotating the Human Milk Glycome

Milady R. Ninonuevo, Youmie Park, Hongfeng Yin, Jinhua Zhang, Robert E. Ward, Brian H. Clowers, J. Bruce German, Samara L. Freeman, Kevin Killeen, Rudolf Grimm, and Carlito B. Lebrilla
pp 7471 - 7480; **(Article)** DOI: [10.1021/jf0615810](https://doi.org/10.1021/jf0615810)

[Abstract](#) Full: [HTML](#) / [PDF](#) (332K) [Supporting Info](#)

BIOACTIVE CONSTITUENTS

 Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Monomers of Condensed Tannins Affect the Larval Exsheathment of Parasitic Nematodes of Ruminants

Severine Brunet and Herve Hoste
pp 7481 - 7487; **(Article)** DOI: [10.1021/jf0610007](https://doi.org/10.1021/jf0610007)

[Abstract](#) Full: [HTML](#) / [PDF](#) (168K)

 Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Survey of Grapevine *Vitis vinifera* Stem Polyphenols by Liquid Chromatography-Diode Array Detection-Tandem Mass Spectrometry

Tõnu Püssa, Janar Floren, Paul Kuldkepp, and Ain Raal
pp 7488 - 7494; **(Article)** DOI: [10.1021/jf061155e](https://doi.org/10.1021/jf061155e)

[Abstract](#) Full: [HTML](#) / [PDF](#) (142K)

 Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Heat and pH Effects on the Conjugated Forms of Genistin and Daidzin Isoflavones

Kevin Mathias, Baraem Ismail, Carlos M. Corvalan, and Kirby D. Hayes
pp 7495 - 7502; **(Article)** DOI: [10.1021/jf061322a](https://doi.org/10.1021/jf061322a)

[Abstract](#) Full: [HTML](#) / [PDF](#) (269K)

 Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Diallyl Disulfide Increases CDKN1A Promoter-Associated Histone Acetylation in Human Colon Tumor Cell Lines

Nathalie Druesne-Pecollo, Anthony Pagniez, Muriel Thomas, Claire Cherbuy, Pierre-Henri Duée, Paule Martel, and Catherine Chaumontet
pp 7503 - 7507; **(Article)** DOI: [10.1021/jf061369w](https://doi.org/10.1021/jf061369w)

[Abstract](#) Full: [HTML](#) / [PDF](#) (119K)

Select Citation |  [Feedback](#) | [Purchase](#)

New Constituents of Sweet *Capsicum annuum* L. Fruits and Evaluation of Their Biological Activity

Simona De Marino, Nicola Borbone, Fulvio Gala, Franco Zollo, Gelsomina Fico, Rita Pagiotti, and Maria Iorizzi
pp 7508 - 7516; **(Article)** DOI: [10.1021/jf061404z](https://doi.org/10.1021/jf061404z)

[Abstract](#) Full: [HTML](#) / [PDF](#) (130K)

Select Citation |  [Feedback](#) | [Purchase](#)

The Antifungal Activity of Widdrol and Its Biotransformation by *Colletotrichum gloeosporioides* (penz.) Penz. & Sacc. and *Botrytis cinerea* Pers.: Fr.

Yarelis Ortíz Nuñez, Iraida Spengler Salabarría, Isidro G. Collado, and Rosario Hernández-Galán
pp 7517 - 7521; **(Article)** DOI: [10.1021/jf061436m](https://doi.org/10.1021/jf061436m)

[Abstract](#) Full: [HTML](#) / [PDF](#) (62K)

Select Citation |  [Feedback](#) | [Purchase](#)

Bioactivity of Anacardic Acid against Colorado Potato Beetle (*Leptinotarsa decemlineata*) Larvae

David J. Schultz, Christian Olsen, Gary A. Cobbs, Neal J. Stolowich, and Megan M. Parrott
pp 7522 - 7529; **(Article)** DOI: [10.1021/jf061481u](https://doi.org/10.1021/jf061481u)

[Abstract](#) Full: [HTML](#) / [PDF](#) (182K)

Select Citation |  [Feedback](#) | [Purchase](#)

High-Performance Liquid Chromatography Analysis of Black Currant (*Ribes nigrum* L.) Fruit Phenolics Grown either Conventionally or Organically

Mikko J. Anttonen and Reijo O. Karjalainen
pp 7530 - 7538; **(Article)** DOI: [10.1021/jf0615350](https://doi.org/10.1021/jf0615350)

[Abstract](#) Full: [HTML](#) / [PDF](#) (85K) [Supporting Info](#)

Select Citation |  [Feedback](#) | [Purchase](#)

Phenolic Acids Are Absorbed from the Rat Stomach with Different Absorption Rates

Yutaka Konishi, Zhaohui Zhao, and Makoto Shimizu
pp 7539 - 7543; **(Article)** DOI: [10.1021/jf061554+](https://doi.org/10.1021/jf061554+)

[Abstract](#) Full: [HTML](#) / [PDF](#) (230K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Functional Components in Soybean Cake and Their Effects on Antioxidant Activity

Tsai-Hua Kao and Bing-Huei Chen
pp 7544 - 7555; **(Article)** DOI: [10.1021/jf061586x](https://doi.org/10.1021/jf061586x)

[Abstract](#) Full: [HTML](#) / [PDF](#) (181K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Analytical Discrimination of Poisonous and Nonpoisonous Chemotypes of Giant Fennel (*Ferula communis* L.) through Their Biologically Active and Volatile Fractions

Patrizia Rubiolo, Maura Matteodo, Giovanna Riccio, Mauro Ballero, Philippe Christen, Sandrine Fleury-Souverain, Jean-Luc Veuthey, and Carlo Bicchi
pp 7556 - 7563; **(Article)** DOI: [10.1021/jf061592t](https://doi.org/10.1021/jf061592t)

[Abstract](#) Full: [HTML](#) / [PDF](#) (137K) [Supporting Info](#)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

***o*-Orsellinaldehyde from the Submerged Culture of the Edible Mushroom *Grifola frondosa* Exhibits Selective Cytotoxic Effect Against Hep 3B Cells Through Apoptosis**

Jiun-Tsai Lin and Wen-Hsiung Liu
pp 7564 - 7569; **(Article)** DOI: [10.1021/jf0616762](https://doi.org/10.1021/jf0616762)

[Abstract](#) Full: [HTML](#) / [PDF](#) (240K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

New Lignans from the Perisperm of *Sesamum indicum*

Raphael Grougnet, Prokopios Magiatis, Sofia Mitaku, Aris Terzis, François Tillequin, and Alexios-Leandros Skaltsounis
pp 7570 - 7574; **(Article)** DOI: [10.1021/jf061694j](https://doi.org/10.1021/jf061694j)

[Abstract](#) Full: [HTML](#) / [PDF](#) (91K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Optimization of Extraction of Phenolic Compounds from Flax Shives by Pressurized Low-Polarity Water

Jin-Woo Kim and G. Mazza
pp 7575 - 7584; **(Article)** DOI: [10.1021/jf0608221](https://doi.org/10.1021/jf0608221)

[Abstract](#) Full: [HTML](#) / [PDF](#) (728K)

BIOBASED PRODUCTS

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

An Efficient Method for Extraction of Astaxanthin from Green Alga *Haematococcus pluvialis*

R. Sarada, R. Vidhyavathi, D. Usha, and G. A. Ravishankar
pp 7585 - 7588; **(Article)** DOI: [10.1021/jf060737t](https://doi.org/10.1021/jf060737t)

[Abstract](#) Full: [HTML](#) / [PDF](#) (187K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Soybean Glycinin Subunits: Characterization of Physicochemical and Adhesion Properties

Xiaoqun Mo, Zhikai Zhong, Donghai Wang, and Xiuzhi Sun
pp 7589 - 7593; **(Article)** DOI: [10.1021/jf060780g](https://doi.org/10.1021/jf060780g)

[Abstract](#) Full: [HTML](#) / [PDF](#) (70K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Biobased Grease with Improved Oxidation Performance for Industrial Application

Brajendra K. Sharma, Atanu Adhvaryu, Joseph M. Perez, and Sevim Z. Erhan
pp 7594 - 7599; **(Article)** DOI: [10.1021/jf061584c](https://doi.org/10.1021/jf061584c)

[Abstract](#) Full: [HTML](#) / [PDF](#) (64K)

BIOTECHNOLOGY

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Preparation of Monoclonal Antibody against Celangulin V and Immunolocalization of Receptor in the Oriental Armyworm, *Mythimna separata* Walker (Lepidoptera: Noctuidae)

Zhijun Qi, Xiaoping Xue, Wenjun Wu, Jiwen Zhang, and Runya Yang
pp 7600 - 7605; **(Article)** DOI: [10.1021/jf060890n](https://doi.org/10.1021/jf060890n)

[Abstract](#) Full: [HTML](#) / [PDF](#) (574K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Sequence Analysis of a "True" Chalcone Synthase (*chs_H1*) Oligofamily from hop (*Humulus lupulus* L.) and PAP1 Activation of *chs_H1* in Heterologous Systems

Jaroslav Matoušek, Lukáš Vrba, Josef Škopek, Lidmila Orctová, Karel Pešina, Arne Heyerick, David Baulcombe, and Denis De Keukeleire

pp 7606 - 7615; **(Article)** DOI: [10.1021/jf061785g](https://doi.org/10.1021/jf061785g)

[Abstract](#) Full: [HTML](#) / [PDF](#) (642K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Identification of Simple Sequence Repeat (SSR) Markers for Acid Detergent Fiber in Rice Straw by Bulked Segregant Analysis

Jiankun Xie, Xiulan Wu, Liang Jin, Yong Wan, Yingjin Huang, and Jinsong Bao

pp 7616 - 7620; **(Article)** DOI: [10.1021/jf061432h](https://doi.org/10.1021/jf061432h)

[Abstract](#) Full: [HTML](#) / [PDF](#) (138K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Production of *Brassica carinata* Protein Hydrolyzates with a High Fischer's Ratio Using Immobilized Proteases

Justo Pedroche, María del Mar Yust, Hassan Lqari, Cristina Megías, Julio Girón-Calle, Manuel Alaiz, Javier Vioque, and Francisco Millán

pp 7621 - 7627; **(Article)** DOI: [10.1021/jf061439z](https://doi.org/10.1021/jf061439z)

[Abstract](#) Full: [HTML](#) / [PDF](#) (246K)

CHEMICAL AND PHYSICAL CHANGES INDUCED BY PROCESSING/STORAGE

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Changes in Glucosinolate Concentrations, Myrosinase Activity, and Production of Metabolites of Glucosinolates in Cabbage (*Brassica oleracea* Var. *capitata*) Cooked for Different Durations

Vanessa Rungapamestry, Alan J. Duncan, Zoë Fuller, and Brian Ratcliffe

pp 7628 - 7634; **(Article)** DOI: [10.1021/jf0607314](https://doi.org/10.1021/jf0607314)

[Abstract](#) Full: [HTML](#) / [PDF](#) (145K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Proton Transfer Reaction-Mass Spectrometry (PTR-MS) Headspace Analysis for Rapid Detection of Oxidative Alteration of Olive Oil

Eugenio Aprea, Franco Biasioli, Graziano Sani, Claudio Cantini, Tilmann D. Märk, and Flavia Gasperi

pp 7635 - 7640; **(Article)** DOI: [10.1021/jf060970r](https://doi.org/10.1021/jf060970r)

[Abstract](#) Full: [HTML](#) / [PDF](#) (199K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Changes in Volatile and Phenolic Compounds with Malaxation Time and Temperature during Virgin Olive Oil Production

Curtis M. Kalua, Danny R. Bedgood, Jr., Andrea G. Bishop, and Paul D. Prenzler
pp 7641 - 7651; **(Article)** DOI: [10.1021/jf061122z](https://doi.org/10.1021/jf061122z)

[Abstract](#) Full: [HTML](#) / [PDF](#) (256K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Effect of Industrial Dehydration on the Soluble Carbohydrates and Dietary Fiber Fractions in Legumes

María A. Martín-Cabrejas, Yolanda Aguilera, Vanesa Benítez, Esperanza Mollá, Francisco J. López-Andréu, and Rosa M. Esteban
pp 7652 - 7657; **(Article)** DOI: [10.1021/jf061513d](https://doi.org/10.1021/jf061513d)

[Abstract](#) Full: [HTML](#) / [PDF](#) (56K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

High Molecular Weight Melanoidins from Coffee Brew

E. Koen Bekedam, Henk A. Schols, Martinus A. J. S. van Boekel, and Gerrit Smit
pp 7658 - 7666; **(Article)** DOI: [10.1021/jf0615449](https://doi.org/10.1021/jf0615449)

[Abstract](#) Full: [HTML](#) / [PDF](#) (112K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

COMPOSITION OF FOODS/FEEDS

Quantitation of Fatty Acids, Sterols, and Tocopherols in Turpentine (*Pistacia terebinthus* Chia) Growing Wild in Turkey

Bertrand Matthäus and Mehmet Musa Özcan
pp 7667 - 7671; **(Article)** DOI: [10.1021/jf060990t](https://doi.org/10.1021/jf060990t)

[Abstract](#) Full: [HTML](#) / [PDF](#) (43K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Characterization of the Chemical Composition of Lotus Plumule Oil

Yanlan Bi, Guolong Yang, Hong Li, Genwang Zhang, and Zheng Guo
pp 7672 - 7677; **(Article)** DOI: [10.1021/jf0607011](https://doi.org/10.1021/jf0607011)

[Abstract](#) Full: [HTML](#) / [PDF](#) (73K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Effects of Different Organic Farming Methods on the Concentration of Phenolic Compounds in Sea Buckthorn Leaves

Merja Heinäaho, Jyrki Pusenius, and Riitta Julkunen-Tiitto
pp 7678 - 7685; **(Article)** DOI: [10.1021/jf061018h](https://doi.org/10.1021/jf061018h)

[Abstract](#) Full: [HTML](#) / [PDF](#) (562K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Understanding the Native Californian Diet: Identification of Condensed and Hydrolyzable Tannins in Tanoak Acorns (*Lithocarpus densiflorus*)

Katherine J. Meyers, Tedmund J. Swiecki, and Alyson E. Mitchell
pp 7686 - 7691; **(Article)** DOI: [10.1021/jf061264t](https://doi.org/10.1021/jf061264t)

[Abstract](#) Full: [HTML](#) / [PDF](#) (94K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Metabolite Profiling of Grape: Flavonols and Anthocyanins

Fulvio Mattivi, Raffaele Guzzon, Urska Vrhovsek, Marco Stefanini, and Riccardo Velasco
pp 7692 - 7702; **(Article)** DOI: [10.1021/jf061538c](https://doi.org/10.1021/jf061538c)

[Abstract](#) Full: [HTML](#) / [PDF](#) (284K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Near-Infrared Reflectance Spectroscopy for Predicting Amino Acids Content in Intact Processed Animal Proteins

M José De la Haba, Ana Garrido-Varo, José Emilio Guerrero-Ginel, and Dolores C. Pérez-Marín
pp 7703 - 7709; **(Article)** DOI: [10.1021/jf061727v](https://doi.org/10.1021/jf061727v)

[Abstract](#) Full: [HTML](#) / [PDF](#) (70K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Chemical Composition of Clarified Bayberry (*Myrica rubra* Sieb. et Zucc.) Juice Sediment

Zhongxiang Fang, Min Zhang, Guangjun Tao, Yunfei Sun, and Jingcai Sun
pp 7710 - 7716; **(Article)** DOI: [10.1021/jf0618980](https://doi.org/10.1021/jf0618980)

[Abstract](#) Full: [HTML](#) / [PDF](#) (78K) [Supporting Info](#)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Antioxidant Activities and Anthocyanin Content of Fresh Fruits of Common Fig (*Ficus carica* L.)

Anat Solomon, Sara Golubowicz, Zeev Yablowicz, Shlomo Grossman, Margalit Bergman, Hugo E. Gottlieb, Arie Altman, Zohar Kerem, and Moshe A. Flaishman
pp 7717 - 7723; **(Article)** DOI: [10.1021/jf060497h](https://doi.org/10.1021/jf060497h)

[Abstract](#) Full: [HTML](#) / [PDF](#) (233K)

CROP AND ANIMAL PROTECTION

Select Citation |  [Feedback](#) |  [Purchase](#)

Synthesis and Herbicidal Activity of *N,N*-Diethyl-3-(arylselenonyl)-1*H*-1,2,4-triazole-1-carboxamide

Yanming Ma, Runhui Liu, Xiuying Gong, Zhong Li, Qingchun Huang, Haishui Wang, and Gonghua Song

pp 7724 - 7728; **(Article)** DOI: [10.1021/jf0609328](https://doi.org/10.1021/jf0609328)

[Abstract](#) Full: [HTML](#) / [PDF](#) (112K) [Supporting Info](#)

 Select Citation |  [Feedback](#) |  [Purchase](#)

Leaf Surface Sesquiterpene Alcohols of the Potato (*Solanum tuberosum*) and Their Influence on Colorado Beetle (*Leptinotarsa decemlineata* Say) Feeding

Beata Szafranek, Karolina Chrapkowska, Danuta Waligóra, Richard Palavinskas, Arkadiusz Banach, and Janusz Szafranek

pp 7729 - 7734; **(Article)** DOI: [10.1021/jf0615653](https://doi.org/10.1021/jf0615653)

[Abstract](#) Full: [HTML](#) / [PDF](#) (94K)

ENVIRONMENTAL CHEMISTRY

 Select Citation |  [Feedback](#) |  [Purchase](#)

Antioxidative Effect of Quercetin and Its Equimolar Mixtures with Phenyltin Compounds on Liposome Membranes

Janina Gabrielska, Monika Soczyńska-Kordala, Jerzy Hładyszowski, Romuald Żyła, Janusz Miśkiewicz, and Stanisław Przystański

pp 7735 - 7746; **(Article)** DOI: [10.1021/jf060720a](https://doi.org/10.1021/jf060720a)

[Abstract](#) Full: [HTML](#) / [PDF](#) (538K)

 Select Citation |  [Feedback](#) |  [Purchase](#)

Sample Extraction Method Combining Micellar Extraction-SPME and HPLC for the Determination of Organochlorine Pesticides in Agricultural Soils

D. Vega Moreno, Z. Sosa Ferrera, and J. J. Santana Rodríguez

pp 7747 - 7752; **(Article)** DOI: [10.1021/jf0614544](https://doi.org/10.1021/jf0614544)

[Abstract](#) Full: [HTML](#) / [PDF](#) (119K)

 Select Citation |  [Feedback](#) |  [Purchase](#)

Reaction of Thiometon and Disulfoton with Reduced Sulfur Species in Simulated Natural Environment

Qiu Gan and Urs Jans

pp 7753 - 7760; **(Article)** DOI: [10.1021/jf061019+](https://doi.org/10.1021/jf061019+)

[Abstract](#) Full: [HTML](#) / [PDF](#) (133K) [Supporting Info](#)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Competitive Sorption-Desorption Behavior of Triazine Herbicides with Plant Cuticular Fractions

Michal Shechter, Baoshan Xing, Frank-Dieter Kopinke, and Benny Chefetz
pp 7761 - 7768; **(Article)** DOI: [10.1021/jf0614488](https://doi.org/10.1021/jf0614488)

[Abstract](#) Full: [HTML](#) / [PDF](#) (135K)

FLAVORS AND AROMAS

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Development of Inosine Monophosphate and Its Degradation Products during Aging of Pork of Different Qualities in Relation to Basic Taste and Retronasal Flavor Perception of the Meat

Meelis Tikk, Kaja Tikk, Mari Ann T Ørngren, Lene Meinert, Margit D. Aaslyng, Anders H. Karlsson, and Henrik J. Andersen
pp 7769 - 7777; **(Article)** DOI: [10.1021/jf060145a](https://doi.org/10.1021/jf060145a)

[Abstract](#) Full: [HTML](#) / [PDF](#) (251K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Composition of the Volatile Fraction of *Ocotea bofo* Kunth (Lauraceae) Calyces by GC-MS and NMR Fingerprinting and Its Antimicrobial and Antioxidant Activity

Alessandra Guerrini, Gianni Sacchetti, Mariavittoria Muzzoli, Gabriela Moreno Rueda, Alessandro Medici, Elena Besco, and Renato Bruni
pp 7778 - 7788; **(Article)** DOI: [10.1021/jf0605493](https://doi.org/10.1021/jf0605493)


[Abstract](#) Full: [HTML](#) / [PDF](#) (440K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Characterization and Semiquantitative Analysis of Volatiles in Seedless Watermelon Varieties Using Solid-Phase Microextraction

John C. Beaulieu and Jeanne M. Lea
pp 7789 - 7793; **(Article)** DOI: [10.1021/jf060663l](https://doi.org/10.1021/jf060663l)

[Abstract](#) Full: [HTML](#) / [PDF](#) (60K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Flavored Yogurt Complex Viscosity Influences Real-Time Aroma Release in the Mouth and Sensory Properties

Anne Saint-Eve, Nathalie Martin, Hervé Guillemin, Etienne Sémon, Elisabeth Guichard, and Isabelle

Souchon
pp 7794 - 7803; **(Article)** DOI: [10.1021/jf060849k](https://doi.org/10.1021/jf060849k)

[Abstract](#) Full: [HTML](#) / [PDF](#) (162K)

FOOD CHEMISTRY/BIOCHEMISTRY

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Effect of the pH of Heating on the Qualitative and Quantitative Compositions of the Sera of Reconstituted Skim Milks and on the Mechanisms of Formation of Soluble Aggregates

Laurence Donato and Douglas G. Dalgleish
pp 7804 - 7811; **(Article)** DOI: [10.1021/jf060961i](https://doi.org/10.1021/jf060961i)

[Abstract](#) Full: [HTML](#) / [PDF](#) (322K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Effect of Seed Development Stage on Sphingolipid and Phospholipid Contents in Soybean Seeds

Liping Wang, Tong Wang, and Walter R. Fehr
pp 7812 - 7816; **(Article)** DOI: [10.1021/jf0616255](https://doi.org/10.1021/jf0616255)

[Abstract](#) Full: [HTML](#) / [PDF](#) (61K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Phospholipid-Based Microemulsions Suitable for Use in Foods

Nilesh Patel, Ulrike Schmid, and M. Jayne Lawrence
pp 7817 - 7824; **(Article)** DOI: [10.1021/jf051288k](https://doi.org/10.1021/jf051288k)

[Abstract](#) Full: [HTML](#) / [PDF](#) (272K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Mode of De-esterification of Alkaline and Acidic Pectin Methyl Esterases at Different pH Conditions

Thomas Duvetter, Ilse Fraeye, Daniel N. Sila, Isabel Verlent, Chantal Smout, Marc Hendrickx, and Ann Van Loey
pp 7825 - 7831; **(Article)** DOI: [10.1021/jf060013h](https://doi.org/10.1021/jf060013h)

[Abstract](#) Full: [HTML](#) / [PDF](#) (113K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Water-Soluble Carbohydrates and Fructan Structure Patterns from *Agave* and *Dasyliion* Species

N. Alejandra Mancilla-Margalli and Mercedes G. López
pp 7832 - 7839; **(Article)** DOI: [10.1021/jf060354v](https://doi.org/10.1021/jf060354v)

[Abstract](#) Full: [HTML](#) / [PDF](#) (174K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Stabilization of Beef Meat by a New Active Packaging Containing Natural Antioxidants

Cristina Nerín, Laura Tovar, Djamel Djenane, Javier Camo, Jesús Salafranca, José Antonio Beltrán, and Pedro Roncalés

pp 7840 - 7846; **(Article)** DOI: [10.1021/jf060775c](https://doi.org/10.1021/jf060775c)

[Abstract](#) Full: [HTML](#) / [PDF](#) (92K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Impact of pH on the Kinetics of Acrylamide Formation/Elimination Reactions in Model Systems

Kristel De Vleeschouwer, Iesiel Van der Plancken, Ann Van Loey, and Marc E. Hendrickx

pp 7847 - 7855; **(Article)** DOI: [10.1021/jf0611264](https://doi.org/10.1021/jf0611264)

[Abstract](#) Full: [HTML](#) / [PDF](#) (152K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Mechanism for Lactate-Color Stabilization in Injection-Enhanced Beef

Yuan H. Kim, Melvin C. Hunt, Richard A. Mancini, Mark Seyfert, Tom M. Loughin, Donald H. Kropf, and J. Scott Smith

pp 7856 - 7862; **(Article)** DOI: [10.1021/jf061225h](https://doi.org/10.1021/jf061225h)

[Abstract](#) Full: [HTML](#) / [PDF](#) (65K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Treatment of Cereal Products with a Tailored Preparation of *Trichoderma* Enzymes Increases the Amount of Soluble Dietary Fiber

Aurora Napolitano, Stefania Lanzuise, Michelina Ruocco, Guido Arlotti, Roberto Ranieri, Svein Halvor Knutsen, Matteo Lorito, and Vincenzo Fogliano

pp 7863 - 7869; **(Article)** DOI: [10.1021/jf0612777](https://doi.org/10.1021/jf0612777)

[Abstract](#) Full: [HTML](#) / [PDF](#) (204K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Thermal and Viscoelastic Properties of κ / λ -Hybrid Carrageenan Gels Obtained from the Portuguese Seaweed *Mastocarpus stellatus*

L. Hilliou, F. D. S. Larotonda, A. M. Sereno, and M. P. Gonçalves

pp 7870 - 7878; **(Article)** DOI: [10.1021/jf0612934](https://doi.org/10.1021/jf0612934)

[Abstract](#) Full: [HTML](#) / [PDF](#) (170K)

Select Citation |  [Feedback](#) | \$ [Purchase](#)**Role of Proteins in Oil-in-Water Emulsions on the Stability of Lipid Hydroperoxides**Sarah S. Kellerby, D. Julian McClements, and Eric A. Decker
pp 7879 - 7884; **(Article)** DOI: [10.1021/jf061340s](https://doi.org/10.1021/jf061340s)[Abstract](#) Full: [HTML](#) / [PDF](#) (234K) Select Citation |  [Feedback](#) | \$ [Purchase](#)**Production of Galacto-manno-oligosaccharides from Guar Gum by β -Mannanase from *Penicillium oxalicum* SO**Masahiro Kurakake, Takuya Sumida, Daisuke Masuda, Saori Oonishi, and Toshiaki Komaki
pp 7885 - 7889; **(Article)** DOI: [10.1021/jf061502k](https://doi.org/10.1021/jf061502k)[Abstract](#) Full: [HTML](#) / [PDF](#) (321K) Select Citation |  [Feedback](#) | \$ [Purchase](#)**Fourier Transform Raman Spectroscopy Study of Heat-Induced Gelation of Plasma Proteins as Influenced by pH**Eduard Dàvila, Dolors Parés, and Nazlin K. Howell
pp 7890 - 7897; **(Article)** DOI: [10.1021/jf061512l](https://doi.org/10.1021/jf061512l)[Abstract](#) Full: [HTML](#) / [PDF](#) (112K) Select Citation |  [Feedback](#) | \$ [Purchase](#)**Isolation and Characterization of a Thermally Extracted Yeast Cell Wall Fraction Potentially Useful for Improving the Foaming Properties of Sparkling Wines**Y. P. Núñez, A. V. Carrascosa, R. González, M. C. Polo, and A. Martínez-Rodríguez
pp 7898 - 7903; **(Article)** DOI: [10.1021/jf0615496](https://doi.org/10.1021/jf0615496)[Abstract](#) Full: [HTML](#) / [PDF](#) (182K) Select Citation |  [Feedback](#) | \$ [Purchase](#)**Tartaric Acid Recovery from Distilled Lees and Use of the Residual Solid as an Economic Nutrient for *Lactobacillus***Beatriz Rivas, Ana Torrado, Ana Belén Moldes, and José Manuel Domínguez
pp 7904 - 7911; **(Article)** DOI: [10.1021/jf061617o](https://doi.org/10.1021/jf061617o)[Abstract](#) Full: [HTML](#) / [PDF](#) (339K)**NUTRITIONAL CHEMISTRY/BIOCHEMISTRY** Select Citation |  [Feedback](#) | \$ [Purchase](#)

Treatment of MCF-7 Breast Cancer Cells with a Red Grape Wine Polyphenol Fraction Results in Disruption of Calcium Homeostasis and Cell Cycle Arrest Causing Selective Cytotoxicity

Fatima Hakimuddin, Gopinadhan Paliyath, and Kelly Meckling
pp 7912 - 7923; **(Article)** DOI: [10.1021/jf060834m](https://doi.org/10.1021/jf060834m)

[Abstract](#) Full: [HTML](#) / [PDF](#) (1731K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Iron Uptake by Caco-2 Cells from NaFeEDTA and FeSO₄: Effects of Ascorbic Acid, pH, and a Fe(II) Chelating Agent

Le Zhu, Raymond P. Glahn, Chi Kong Yeung, and Dennis D. Miller
pp 7924 - 7928; **(Article)** DOI: [10.1021/jf061036z](https://doi.org/10.1021/jf061036z)

[Abstract](#) Full: [HTML](#) / [PDF](#) (125K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Iron Dissociates from the NaFeEDTA Complex Prior to or during Intestinal Absorption in Rats

Le Zhu, Chi Kong Yeung, Raymond P. Glahn, and Dennis D. Miller
pp 7929 - 7934; **(Article)** DOI: [10.1021/jf0616964](https://doi.org/10.1021/jf0616964)

[Abstract](#) Full: [HTML](#) / [PDF](#) (94K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Dietary Conjugated Linoleic Acid Lowered Tumor Necrosis Factor- α Content and Altered Expression of Genes Related to Lipid Metabolism and Insulin Sensitivity in the Skeletal Muscle of Zucker Rats

Nao Inoue, Koji Nagao, Yu-Ming Wang, Hiroki Noguchi, Bungo Shirouchi, and Teruyoshi Yanagita
pp 7935 - 7939; **(Article)** DOI: [10.1021/jf061284v](https://doi.org/10.1021/jf061284v)

[Abstract](#) Full: [HTML](#) / [PDF](#) (49K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

Anthocyanin Absorption and Antioxidant Status in Pigs

Michaela C. Walton, Roger G. Lentle, Gordon W. Reynolds, Marlana C. Kruger, and Tony K. McGhie
pp 7940 - 7946; **(Article)** DOI: [10.1021/jf061527j](https://doi.org/10.1021/jf061527j)

[Abstract](#) Full: [HTML](#) / [PDF](#) (108K)

Select Citation |  [Feedback](#) | [\\$ Purchase](#)

SAFETY/TOXICOLOGY

Determination of Isopropyl Thioxanthone (ITX) in Fruit Juices by Pressurized Liquid Extraction and Liquid Chromatography-Mass Spectrometry

Gianni Sagratini, Jordi Mañes, Dario Giardiná, and Yolanda Picó

pp 7947 - 7952; **(Article)** DOI: [10.1021/jf0615956](https://doi.org/10.1021/jf0615956)

[Abstract](#) Full: [HTML](#) / [PDF](#) (133K)

Copyright © 2007 American Chemical Society, 1155 Sixteenth Street N.W., Washington, DC 20036