



Log In Register Cart

ACS ACS Publications C&EN CAS



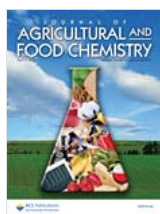
ACS Journals | ACS Chemistry | ACS Books | ACS Style Guide | C&EN Archives | Subscribe | Help

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY

Search text Anywhere

J. Agric. Food Chem. All Publications/Website

Table of Contents



Larger Cover

April 17, 2013
Volume 61, Issue 15
Pages 3561-3762

In this issue:

REVIEWS

ANALYSIS AND CHEMOSENSORY PERCEPTION OF FLAVOR

ANALYTICAL METHODS

BIOACTIVE CONSTITUENTS AND FUNCTIONS

BIOFUELS AND BIOBASED PRODUCTS

FOOD AND BEVERAGE CHEMISTRY/BIOCHEMISTRY

FOOD SAFETY AND TOXICOLOGY

Advertisements



Info for Advertisers



ACS AuthorChoice indicates the article is freely available through sponsorship by the author or related funding agency. [More about this program.](#)

For Selected: [View Abstracts](#) [Add to ACS ChemWorx](#) [Download Citations](#)



REVIEWS

Sheepmeat Flavor and the Effect of Different Feeding Systems: A Review

Peter J. Watkins, Damian Frank, Tanoj K. Singh, Owen A. Young, and Robyn D. Warner

pp 3561-3579

Publication Date (Web): March 14, 2013 (Review)

DOI: 10.1021/jf303768e

Section: [Food and Feed Chemistry](#)

Abstract

[ACS ActiveView PDF](#)

[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)

[PDF \[2045K\]](#)

[PDF w/ Links \[523K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

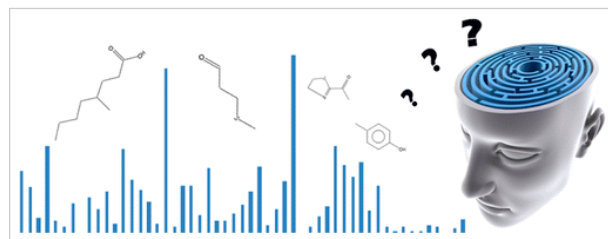


Figure 1 of 5

ANALYSIS AND CHEMOSENSORY PERCEPTION OF FLAVOR

Convenient Synthesis of Stable Deuterium-Labeled Alkylpyrazines for Use in Stable Isotope Dilution Assays

Mingchih Fang and Keith R. Cadwallader

pp 3580-3588

Publication Date (Web): March 25, 2013 (Article)

DOI: 10.1021/jf4001204

Section: [Food and Feed Chemistry](#)

Abstract

[ACS ActiveView PDF](#)

[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)

[PDF \[536K\]](#)

[PDF w/ Links \[341K\]](#)

[Full Text HTML](#)

Browse By Issue

Select Decade

Select Volume

Select Issue

[List of Issues](#)



Access your research from anywhere.

Add articles to ACS ChemWorx to access your ACS ActiveView PDF annotations from multiple devices.

[About ACS ChemWorx](#)
[ACS ChemWorx Features](#)
[About ACS ActiveView PDF](#)

[Go to ACS ChemWorx](#)

Advertisements

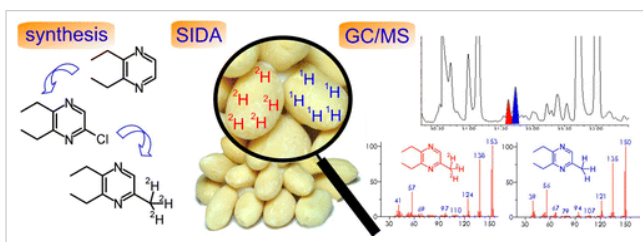
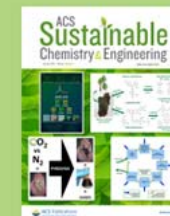


Figure 1 of 4

[Add to ACS ChemWorx](#)

 ACS
Sustainable
 Chemistry & Engineering

 First Issue
 Now
 Available
 Online >>>

[Info for Advertisers](#)

ANALYTICAL METHODS

 Metabolite Profiles of Epimedini B in Rats by Ultraperformance Liquid Chromatography/Quadrupole-Time-of-Flight Mass Spectrometry

Li Cui, E Sun, Zhenhai Zhang, Qian Qian, Xiaobin Tan, Fengjuan Xu, and Xiaobin Jia

pp 3589-3599

Publication Date (Web): January 29, 2013 (Article)

DOI: 10.1021/jf304625x

 Section: [Pharmacology](#)
[Abstract](#)
[ACS ActiveView PDF](#)
[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)
[PDF](#) [2068K]

[PDF w/ Links](#) [697K]

[Full Text HTML](#)
[Add to ACS ChemWorx](#)
 Adsorption of Pesticidal Compounds Bearing a Single Carboxyl Functional Group and Biogenic Amines by Humic Fraction-Immobilized Silica Gel

Cheng-Sheng Chen and Shushi Chen

pp 3600-3610

Publication Date (Web): March 22, 2013 (Article)

DOI: 10.1021/jf400242c

 Section: [Agrochemical Bioregulators](#)
[Abstract](#)
[ACS ActiveView PDF](#)
[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)
[PDF](#) [1589K]

[PDF w/ Links](#) [440K]

[Full Text HTML](#)
[Add to ACS ChemWorx](#)
 LC-ESI-TOF MS Method for the Evaluation of the Immunostimulating Activity of Soybeans via the Determination of the Functional Peptide Soymetide

Miguel Guijarro-Díez, María Concepción García, María Luisa Marina, and Antonio Luis Crego

pp 3611-3618

Publication Date (Web): March 17, 2013 (Article)

DOI: 10.1021/jf305159m

 Section: [Food and Feed Chemistry](#)
[Abstract](#) | [Supporting Info](#)
[ACS ActiveView PDF](#)
[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)
[PDF](#) [2039K]

[PDF w/ Links](#) [360K]

[Full Text HTML](#)
[Add to ACS ChemWorx](#)
 Development of Immunoassays for Detecting Clothianidin Residue in Agricultural Products

Ming Li, Enze Sheng, Lujing Cong, and Minghua Wang

pp 3619-3623

Publication Date (Web): March 25, 2013 (Article)

DOI: 10.1021/jf400055s

 Section: [Food and Feed Chemistry](#)
[Abstract](#) | [Supporting Info](#)
[ACS ActiveView PDF](#)
[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)
[PDF](#) [403K]

[PDF w/ Links](#) [236K]

[Full Text HTML](#)
[Add to ACS ChemWorx](#)

BIOACTIVE CONSTITUENTS AND FUNCTIONS

 Correlation between Changes in Polyphenol Composition of Peels and Incidence of CO₂ Skin Burning of 'Cameo' Apples As Influenced by Controlled Atmosphere Storage

Jamil Harb, Dominikus Kitemann, Daniel Alexandre Neuwald, Thomas Hoffmann, and Wilfried Schwab

pp 3624-3630

Publication Date (Web): March 22, 2013 (Article)

DOI: 10.1021/jf4000743

 Section: [Food and Feed Chemistry](#)
[Abstract](#)
[ACS ActiveView PDF](#)
[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)
[PDF](#) [299K]

[PDF w/ Links](#) [209K]

[Full Text HTML](#)
[Add to ACS ChemWorx](#)

Inhibitory Effects of Dried Longan (*Euphoria longana* Lam.) Seed Extract on Invasion and Matrix Metalloproteinases of Colon Cancer Cells

Atita Panyathep, Teera Chewonarin, Khanittha Taneyhill, Usanee Vinitketkumnuen, and Young-Joon Surh

pp 3631-3641

Publication Date (Web): March 25, 2013 (Article)

DOI: 10.1021/jf3052863

 Section: [Pharmacology](#)

Effect of the Interaction of Heat-Processing Style and Fat Type on the Micellization of Lipid-Soluble Pigments from Green and Red Pungent Peppers (*Capsicum annuum*)

Claudia I. Victoria-Campos, José de Jesús Ornelas-Paz, Elhadi M. Yahia, and Mark L. Failla

pp 3642-3653

Publication Date (Web): March 22, 2013 (Article)

DOI: 10.1021/jf3054559

 Section: [Food and Feed Chemistry](#)

Preparation and Oral Bioavailability Study of Curcuminoid-Loaded Microemulsion

Yanyu Xiao, Xi Chen, Liu Yang, Xieting Zhu, Lang Zou, Fanfei Meng, and Qineng Ping

pp 3654-3660

Publication Date (Web): March 3, 2013 (Article)

DOI: 10.1021/jf400002x

 Section: [Pharmaceuticals](#)

Health-Promoting Effects of Ethylene-Treated Kiwifruit 'Hayward' from Conventional and Organic Crops in Rats Fed an Atherogenic Diet

Maria Leontowicz, Iwona Jesion, Hanna Leontowicz, Yong-Seo Park, Jacek Namiesnik, Adamo Domenico Rombolà, Moshe Weisz, and Shela Gorinstein

pp 3661-3668

Publication Date (Web): March 27, 2013 (Article)

DOI: 10.1021/jf400165k

 Section: [Animal Nutrition](#)

Abstract

[ACS ActiveView PDF](#)

[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)

[PDF \[2097K\]](#)

[PDF w/ Links \[649K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Abstract

[ACS ActiveView PDF](#)

[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)

[PDF \[596K\]](#)

[PDF w/ Links \[344K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Abstract

[ACS ActiveView PDF](#)

[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)

[PDF \[3583K\]](#)

[PDF w/ Links \[298K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Abstract

[ACS ActiveView PDF](#)

[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)

[PDF \[719K\]](#)

[PDF w/ Links \[284K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)


Tyrosol Attenuates Ischemia-Reperfusion-Induced Kidney Injury via Inhibition of Inducible Nitric Oxide Synthase

Pengqi Wang, Qingjun Zhu, Nan Wu, Yaw L. Siow, Harold Aukema, and Karmin O

pp 3669-3675

Publication Date (Web): March 26, 2013 (Article)

DOI: 10.1021/jf400227u

 Section: [Pharmacology](#)

Polysaccharide from *Ganoderma atrum* Evokes Antitumor Activity via Toll-like Receptor 4-Mediated NF- κ B and Mitogen-Activated Protein Kinase Signaling Pathways

Shenshen Zhang, Shaoping Nie, Danfei Huang, Jianqin Huang, Yawei Wang, and Mingyong Xie

pp 3676-3682

Publication Date (Web): March 20, 2013 (Article)

DOI: 10.1021/jf4004225

 Section: [Pharmacology](#)

Abstract

[ACS ActiveView PDF](#)

[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)

[PDF \[3691K\]](#)

[PDF w/ Links \[335K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Abstract

[ACS ActiveView PDF](#)

[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)

[PDF \[1423K\]](#)

[PDF w/ Links \[281K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

BIOFUELS AND BIOBASED PRODUCTS

Abstract

[ACS ActiveView PDF](#)

[Hi-Res Print](#), [Annotate](#), [Reference QuickView](#)

[PDF \[405K\]](#)

Possible Use of the Carbohydrates Present in Tomato Pomace and in Byproducts of the Supercritical Carbon Dioxide Lycopene Extraction Process as Biomass for Bioethanol Production

Marcello S. Lenucci, Miriana Durante, Montefusco Anna, Giuseppe Dalessandro, and Gabriella Piro
pp 3683-3692
Publication Date (Web): March 21, 2013 (Article)
DOI: 10.1021/jf4005059

 Section: [Food and Feed Chemistry](#)

[PDF w/ Links \[331K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

FOOD AND BEVERAGE CHEMISTRY/BIOCHEMISTRY

Detection and Identification of Extra Virgin Olive Oil Adulteration by GC-MS Combined with Chemometrics

Yang Yang, Miguel Duarte Ferro, Isabel Cavaco, and Yizeng Liang
pp 3693-3702
Publication Date (Web): March 25, 2013 (Article)
DOI: 10.1021/jf4000538

 Section: [Food and Feed Chemistry](#)

[Abstract](#)

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[4564K\]](#)

[PDF w/ Links \[719K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

New Precursor of 3-Mercaptohexan-1-ol in Grape Juice: Thiol-Forming Potential and Kinetics during Early Stages of Must Fermentation

Michael J. Harsch, Frank Benkowitz, Andy Frost, Benoît Colonna-Ceccaldi, Richard C. Gardner, and Jean-Michel Salmon
pp 3703-3713
Publication Date (Web): March 27, 2013 (Article)
DOI: 10.1021/jf3048753

 Section: [Food and Feed Chemistry](#)

[Abstract | Supporting Info](#)

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[2060K\]](#)

[PDF w/ Links \[450K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Analysis of Crude Protein and Allergen Abundance in Peanuts (*Arachis hypogaea* cv. Walter) from Three Growing Regions in Australia

Nicole E. Walczyk, Penelope M. C. Smith, Euan Tovey, Graeme C. Wright, Dayle B. Fleischfresser, and Thomas H. Roberts
pp 3714-3725
Publication Date (Web): March 18, 2013 (Article)
DOI: 10.1021/jf305347r

 Section: [Food and Feed Chemistry](#)

[Abstract | Supporting Info](#)

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[1753K\]](#)

[PDF w/ Links \[580K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Determination of Seven Certified Color Additives in Food Products Using Liquid Chromatography

Bhakti Petigara Harp, Enio Miranda-Bermudez, and Julie N. Barrows
pp 3726-3736
Publication Date (Web): March 25, 2013 (Article)
DOI: 10.1021/jf400029y

 Section: [Food and Feed Chemistry](#)

[Abstract](#)

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[565K\]](#)

[PDF w/ Links \[294K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

Pigment, Physicochemical, and Microbiological Changes Related to the Freshness of Cracked Table Olives

Lourdes Gallardo-Guerrero, Beatriz Gandul-Rojas, J. M. Moreno-Baquero, Antonio López-López, Joaquín Bautista-Gallego, and Antonio Garrido-Fernández
pp 3737-3747
Publication Date (Web): March 25, 2013 (Article)
DOI: 10.1021/jf400240e

 Section: [Food and Feed Chemistry](#)

[Abstract](#)

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

[PDF \[2701K\]](#)

[PDF w/ Links \[581K\]](#)

[Full Text HTML](#)

[Add to ACS ChemWorx](#)

[Abstract](#)

[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView

Oil as Reaction Medium for Glycation, Oxidation, Denaturation, and Aggregation of Whey Protein Systems of Low Water Activity

Naritchaya Potes, Joseph P. Kerry, and Yrjö H. Roos

pp 3748-3756

Publication Date (Web): March 21, 2013 (Article)

DOI: 10.1021/jf400277z

 Section: [Food and Feed Chemistry](#)
[PDF \[1358K\]](#)[PDF w/ Links \[381K\]](#)[Full Text HTML](#)[Add to ACS ChemWorx](#)

FOOD SAFETY AND TOXICOLOGY

 Ex Vivo Absorption of Thymol and Thymol- β -D-glucopyranoside in Piglet Everted Jejunal Segments

Branko T. Petrujkic, Ivana Sedej, Ross C. Beier, Robin C. Anderson, Roger B. Harvey, Sharon V. R. Epps, Robert D. Stipanovic, Nathan A. Krueger, and David J. Nisbet

pp 3757-3762

Publication Date (Web): March 25, 2013 (Article)

DOI: 10.1021/jf401013a

 Section: [Animal Nutrition](#)
[Abstract | Supporting Info](#)
[ACS ActiveView PDF](#)
Hi-Res Print, Annotate, Reference QuickView
[PDF \[424K\]](#)[PDF w/ Links \[224K\]](#)[Full Text HTML](#)[Add to ACS ChemWorx](#)
 For Selected: [View Abstracts](#) [Add to ACS ChemWorx](#) [Download Citations](#)

 1155 Sixteenth Street N.W.
 Washington, DC 20036
[Products](#)[Journals A-Z](#)[Books](#)[C&EN](#)[C&EN Archives](#)[ACS Legacy Archives](#)[ACS Mobile](#)[Video](#)[User Resources](#)[About Us](#)[ACS Members](#)[Librarians](#)[Authors & Reviewers](#)[Website Demos](#)[Support](#)[Get Help](#)[For Advertisers](#)[Institutional Sales](#)[Live Chat](#)[Partners](#)[Atypon](#)[COPE](#)[COUNTER](#)[crossref](#)[ORCID Open Researcher & Contributor ID](#)[PORTICO](#)[Search ACS Publications](#)Search Anywhere [Search](#)
 ICP# 102011001 -36 | [Copyright © 2013 American Chemical Society](#)