

SCI supports the

IYC 2011

International Year of CHEMISTRY

Published online at wileyonlinelibrary.com 7 March-2 May 2011

Journal of the Science of **Food** and Agriculture

View online at wileyonlinelibrary.com/journal/jsfa





www.soci.org

Journal of the Science of Food and Agriculture

Volume 91 Issue No 9 July 2011 wileyonlinelibrary.com/journal/jsfa

In Focus: SCI BioResources Young Researchers (Part 1)

Editorial

 In Focus: SCI BioResources Young Researchers — Emerging young researchers in crop science
 1527

 AD Baylis and S Scoffield (UK)
 Review

 Soil compaction: a review of past and present techniques for investigating effects on root growth
 1528

 SR Tracy, CR Black, JA Roberts and SJ Mooney (UK)
 1528

Spotlight

Are stomatal responses the key to understanding the cost of fungal disease resistance in plants?1538CM Withers, AP Gay and LAJ Mur (UK)

Research Articles

Tyrosinase inhibition by water and ethanol extracts of a Far Eastern sea cucumber, <i>Stichopus japonicus</i> A Husni (Republic of Korea, Indonesia), J-S Jeon, B-H Um, NS Han and D Chung (Republic of Korea)	1541
Carotenoid and anthocyanin contents of grains of Brazilian maize landraces S Kuhnen, PM Menel Lemos, LH Campestrini, JB Ogliari, PF Dias and M Maraschin (Brazil)	1548
Antioxidant and antimicrobial activity of <i>Satureja montana</i> L. extracts C Serrano, O Matos, B Teixeira, C Ramos, N Neng, J Nogueira, ML Nunes and A Marques (Portugal)	1554
Bioproduction of mushroom mycelium of <i>Agaricus bisporus</i> by commercial submerged fermentation for the production of meat analogue K Kim, B Choi, I Lee, H Lee, S Kwon, K Oh and AY Kim (South Korea)	1561
Efficiency of urease and nitrification inhibitors in reducing ammonia volatilization from diverse nitrogen fertilizers applied to different soil types and wheat straw mulching SS Francisco, O Urrutia, V Martin, A Peristeropoulos and JM Garcia-Mina (Spain)	1569
Quality of bread made from ozonated wheat (<i>Triticum aestivum</i> L.) flour HPS Sandhu, FA Manthey and S Simsek (USA)	1576
Effect of harvesting hour on some physical and mechanical properties of <i>Rosa damascena</i> Mill. D Yilmaz, K Ekinci, T Dilmacunal and S Erbas (Turkey)	1585

Contents continued overleaf

SCI Journal of the Science of Food and Agriculture

wileyonlinelibrary.com/journal/jsfa

	Contents continued	
	Effect of tea polyphenols on microbiological and biochemical quality of <i>Collichthys</i> fish ball S Yi, J Li, J Zhu, Y Lin, L Fu, W Chen and X Li (China)	1591
	Volatile and capsaicinoid composition of ají (<i>Capsicum baccatum</i>) and rocoto (<i>Capsicum pubescens</i>), two Andean species of chile peppers H Kollmannsberger (Germany), A Rodríguez-Burruezo (Spain), S Nitz (Germany) and F Nuez (Spain)	1598
	Ligustrazine formation in Zhenjiang aromatic vinegar: changes during fermentation and storing process W Xu, Q Xu, J Chen, Z Lu, R Xia, G Li, Z Xu and Y Ma (China)	1612
	Antioxidant and chelating activity of <i>Jatropha curcas</i> L. protein hydrolysates S Gallegos-Tintoré (Mexico), C Torres-Fuentes (Spain), AL Martínez-Ayala, J Solorza-Feria (Mexico), M Alaiz, J Girón-Calle and J Vioque (Spain)	1618
5	Amylose content and starch properties in emmer and durum wheat lines with different waxy proteins composition	1625
	C Guzmán, L Caballero, JB Alvarez (Spain) and M Yamamori (Japan)	
	A novel antifungal peptide from foxtail millet seeds W Xu, L Wei, W Qu, Z Liang, J Wang, X Peng, Y Zhang and K Huang (China)	1630
	Novel varieties of broccoli for optimal bioactive components under saline stress R Dominguez-Perles, MC Martinez-Ballesta, F Riquelme, M Carvajal, C Garcia-Viguera and DA Moreno (Spain)	1638
	Colour score as a guide for estimating the protein value of corn gluten feed ARJ Cabrita, MRG Maia, M Freitas, JMF Abreu and AJM Fonseca (Portugal)	1648
	A novel instrument to delineate varietal and harvest effects on blueberry fruit texture during storage C Li, J Luo and D MacLean (USA)	1653
	Stability of fatty acids during wilting of perennial ryegrass (Lolium perenne L.): effect of bruising and environmental conditions NA Khan, JW Cone (the Netherlands), V Fievez (Belgium) and WH Hendriks (the Netherlands)	1659
	Multiplex PCR-based strategy to detect contamination with mycotoxigenic <i>Fusarium</i> species in rice and fingermillet collected from southern India MV Ramana, K Balakrishna, HCS Murali and HV Batra (India)	1666
	Effect of date seeds on oxidative damage and antioxidant status <i>in vivo</i> HM Habib and WH Ibrahim (UAE)	1674
	Effect of high-voltage electrostatic field pretreatment on the antioxidant system in stored green mature tomatoes	1680
	R Zhao, J Hao, J Xue, H Liu and L Li (PR China)	
	Biochemical composition of two red seaweed species grown on the Brazilian coast V Gressler, MT Fujii, AP Martins, P Colepicolo, J Mancini-Filho and E Pinto (Brazil)	1687
	Determination of the volatile profile of stoned table olives from different varieties by using HS-SPME and GC/IT-MS R Malheiro, PG de Pinho, S Casal, A Bento and JA Pereira (Portugal)	1693

Journal of the Science of Food and Agriculture

wileyonlinelibrary.com/journal/jsfa

Influence of rootstock and cultivar on bioactive compounds in citrus peels A Cano and A Bermejo (Spain)	1702
The role of light in the regulation of ascorbate metabolism during berry development in the cultivated grapevine Vitis vinifera L. VJ Melino, MA Hayes, KL Soole and CM Ford (Australia)	1712
Classification of impacted blueberries during storage using an electronic nose N Demir (Egypt, USA), ACO Ferraz (Brazil), SA Sargent (USA) and MO Balaban (USA)	1722
Erratum	1728

SCI — the only society connecting science, business & you

Whatever stage you are at in your career SCI can be an invaluable tool. If it is networking with potential employers, learning from fellow peers or taking an active role within your local regional group, SCI will be there to add to and support your further and ongoing development. Become an SCI member. Here are just a few of the great products and services you can get:

- Chemistry & Industry Magazine Latest news features and reviews, direct to your desktop and to your door twice a month.
- 50% discount on Wiley books, 25% off Blackwell books and 20% off Oxford University press books (some exceptions apply).
- Discounted Conferences 75% off our exciting conferences.
- Global Networking Opportunities A chance to meet other like minded professionals working within the chemical industry and academia.
- Technical Interest Groups Over 20 industry and topic specific groups to discuss, share and discover development within your sector.
- Writing and speaking opportunities Present at one of our prestigious conferences and write for the SCI's renowned journals.
- 50% discount on SCI peer reviewed journals.
- International and Regional activity Contribute to your local group and take advantage of free events and the local networking opportunities.
- SCI Awards Achieve recognition of outstanding contribution to your field within the chemical industry, serving both the individual and innovation.
- Plus much more.

For more information or to join visit www.soci.org or call +44 (0)20 7598 1500