Report of President 2013/2014 - School of Biosystems Engineering

Books

**Professor Da-Wen Sun**


**Book Chapters**

**Professor Francis Butler**


**Ms Liana Drummond**


**Dr Aoife Gowen**


**Professor Da-Wen Sun**


Y. Tao, Da-Wen Sun, E. Hogan and A. L. Kelly (2014) 'High Pressure Processing of


Books Edited

**Dr Enda Cummins**


**Dr Tom Curran**


**Professor Nick Holden**


Peer Reviewed Journals

**Professor Francis Butler**


Gibbons JF, Boland F, Buckley JF, Butler F, Egan J, Fanning S, Markey BK, Leonard FC. (2014) 'Patterns of antimicrobial resistance in pathogenic Escherichia coli isolates from cases of calf enteritis during the spring-calving season'. *Veterinary Microbiology.*


Mussida, A, Vose, D, & Butler, F (2013) 'Efficiency of the sampling plan for Cronobacter spp. assuming a Poisson lognormal distribution of the bacteria in powder infant formula and the implications of assuming a fixed within and between-lot


**Dr Rory Coffey**


**Dr Enda Cummins**


Dr Tom Curran


Dr Ger Jason Devlin


Fionnuala Murphy, Ger Devlin, Rory Deverell and Kevin McDonnell (2013) 'Biofuel Production in Ireland - An Approach to 2020 Targets with a focus on Algal Biomass'. *Energies, 6 (12):6391-6412.*


Ms Liana Drummond


Dr Colm Everard


Dr Phil Hemmingway


Professor Nick Holden

**Professor Colm O'Donnell**


**Professor Da-Wen Sun**


Xiong, Z. and Sun, D.-W. and Zeng, X.-A. and Xie, A.; (2014) 'Recent developments of hyperspectral imaging systems and their applications in detecting quality attributes of


Freezing of Water and Sucrose Solution. *Innovative Food Science and Emerging Technologies*, 20:161-166.

D. Zhao, X.-A. Zeng, Da-Wen Sun and D. Liu; (2013) 'Effects of Pulsed Electric Field Treatment on the (+)-Catechin-Acetaldehyde Condensation'. *Innovative Food Science and Emerging Technologies*, 20:100-105.


Dr Eilín Walsh


**Other Journals**

**Dr Colm Everard**


**Dr Aoife Gowen**


Aoife A. Gowen and Colm P. O'Donnell (2013) 'Near infrared hyperspectral imaging for foreign body detection and identification in food processing' *Spectroscopy Europe*.

**Professor Colm O'Donnell**

A.A. Gowen, C.P. O'Donnell (2013) 'Near infrared hyperspectral imaging for foreign body detection and identification in food processing' *Spectroscopy Europe*.

**Professor Da-Wen Sun**


**Conference Publications**

**Dr Rory Coffey**


**Dr Enda Cummins**


Professor Da-Wen Sun

Da-Wen Sun; (2014) Recent Advances in Hyperspectral Imaging Technology and Applications for Food Quality and Safety Evaluation and Inspection the Workshops on Computer Image Analysis in Biosciences (Invited speech), Olsztyn, Poland,
Da-Wen Sun; (2014) Recent Applications of Hyperspectral Imaging for Food Safety and Quality Control 8th Food Science International Symposium (Keynote speech), Chengdu, China,
H. Liu, Y. Feng and Da-Wen Sun; (2013) Fast Assessment of Microbial Spoilage in Lamb Meat by Near-Infrared (NIR) Hyperspectral Imaging 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,
D. Liu, J.-H. Qu, J. Ma, Da-Wen Sun, X.-A. Zeng and H. Pu; (2013) Rapid Determination of Sodium Chloride in Salted Meat by Visible and Near-Infrared Hyperspectral Imaging 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,
Y.-C. Yang, N.-N. Wang, D. Liu, Da-Wen Sun and X.-A. Zeng; (2013) Rapid Detection of Water Content Changes of Pericarp During Browning Process of Postharvest Litchi by Hyperspectral Imaging 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,
M.-S. Wang, X.-A. Zeng, Da-Wen Sun and Z. Han; (2013) Quantitative Analysis of Sublethal Saccharomyces Cerevisiae Cells Induced by Pulsed Electric Field 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,
Z.-W. Liu, X.-A. Zeng, Da-Wen Sun and Z. Han; (2013) Effects of Pulsed Electric Fields on the Permeabilization of Calcein-Filled Soybean Lecithin Vesicles 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,
F. Hu and Da-Wen Sun; (2013) Factors of Pre-presence Bubbles Influencing Ultrasound Assisted Nucleation of Liquid Models during Freezing 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,
Agitation on Immersion Vacuum Cooling of Different Types of Cooked Irish Jumbo Sausages 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,
H.-J. He, D. Wu and Da-Wen Sun; (2013) Hyperspectral Imaging Technique for Rapid Detection of Enterobacteriaceae Loads in Raw Salmon Fillets 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,
Da-Wen Sun; (2013) Hyperspectral Imaging Technology: A Non-destructive and Effective Tool for Food Quality and Safety Evaluation and Control BIT’s 1st Annual International Conference of Emerging Industry ™ 2013 (Keynote speech), Shenzhen, China,
H.-W. Xiao, L. Zhao, Da-Wen Sun and Z.-J. Gao; (2013) Hot Air Impingement Drying Characteristics of Corn and Its Effects on Solubility and Electrophoretic Patterns of Corn Albumin and Globulin 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,
Q. Yu, X.-A. Zeng, Q.-J. Wang and Da-Wen Sun; (2013) Effects of Pulsed Electric Field on Selected Properties of L-tryptophan 8th International CIGR Technical Symposium on Advanced Food Processing and Quality Management, Guangzhou, China,