

# Donal J O'callaghan

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

1,775  
citations

185998

28  
h-index

288905

40  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1238  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of composition and some processing treatments on the rennet coagulation properties of milk. <i>International Journal of Dairy Technology</i> , 1997, 50, 99-106.	1.3	99
2	Prediction of maturity and sensory attributes of Cheddar cheese using near-infrared spectroscopy. <i>International Dairy Journal</i> , 2005, 15, 701-709.	1.5	80
3	Review of systems for monitoring curd setting during cheesemaking. <i>International Journal of Dairy Technology</i> , 2002, 55, 65-74.	1.3	74
4	Influence of protein concentration on surface composition and physico-chemical properties of spray-dried milk protein concentrate powders. <i>International Dairy Journal</i> , 2015, 51, 34-40.	1.5	65
5	Prediction of Moisture, Fat and Inorganic Salts in Processed Cheese by near Infrared Reflectance Spectroscopy and Multivariate Data Analysis. <i>Journal of Near Infrared Spectroscopy</i> , 2004, 12, 149-157.	0.8	55
6	A novel technique for determining glass transition in dairy powders. <i>Journal of Food Engineering</i> , 2010, 99, 76-82.	2.7	52
7	Influence of milk proteins on the development of lactose-induced stickiness in dairy powders. <i>International Dairy Journal</i> , 2010, 20, 212-221.	1.5	52
8	Dielectric properties of process cheese from 0.3 to 3GHz. <i>Journal of Food Engineering</i> , 2006, 75, 415-422.	2.7	48
9	Rennet coagulation properties of retentates obtained by ultrafiltration of skim milks heated to different temperatures. <i>International Dairy Journal</i> , 1996, 6, 581-596.	1.5	47
10	The use of a simple empirical method for objective quantification of the stretchability of cheese on cooked pizza pies. <i>Journal of Food Engineering</i> , 1997, 31, 147-161.	2.7	45
11	Process viscometry for the food industry. <i>Trends in Food Science and Technology</i> , 2000, 11, 451-457.	7.8	45
12	On-line prediction of cheese making indices using backscatter of near infrared light. <i>International Dairy Journal</i> , 2008, 18, 120-128.	1.5	45
13	Modelling of sensory and instrumental texture parameters in processed cheese by near infrared reflectance spectroscopy. <i>Journal of Dairy Research</i> , 2006, 73, 58-69.	0.7	44
14	On-line sensing techniques for coagulum setting in renneted milks. <i>Journal of Food Engineering</i> , 2000, 43, 155-165.	2.7	43
15	Development of a light scatter sensor technology for on-line monitoring of milk coagulation and whey separation. <i>Journal of Food Engineering</i> , 2007, 83, 61-67.	2.7	43
16	Effects of Cutting Intensity and Stirring Speed on Syneresis and Curd Losses During Cheese Manufacture. <i>Journal of Dairy Science</i> , 2008, 91, 2575-2582.	1.4	43
17	Physical characteristics of spray-dried dairy powders containing different vegetable oils. <i>Journal of Food Engineering</i> , 2014, 122, 122-129.	2.7	42
18	Effect of Cutting Time, Temperature, and Calcium on Curd Moisture, Whey Fat Losses, and Curd Yield by Response Surface Methodology. <i>Journal of Dairy Science</i> , 2007, 90, 4499-4512.	1.4	41

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19	Modern process control techniques in the production of dried milk products – a review. Dairy Science and Technology, 2005, 85, 335-342.	0.9	39
20	Novel Online Sensor Technology for Continuous Monitoring of Milk Coagulation and Whey Separation in Cheesemaking. Journal of Agricultural and Food Chemistry, 2007, 55, 8836-8844.	2.4	38
21	Effect of increasing the protein-to-fat ratio and reducing fat content on the chemical and physical properties of processed cheese product. Journal of Dairy Science, 2013, 96, 6830-6839.	1.4	38
22	Volatile Release from Whey Protein Isolate – Pectin Multilayer Stabilized Emulsions: Effect of pH, Salt, and Artificial Salivas. Journal of Agricultural and Food Chemistry, 2013, 61, 6231-6239.	2.4	37
23	Milk protein standardization by ultrafiltration for Cheddar cheese manufacture. Journal of Dairy Research, 1996, 63, 281-293.	0.7	34
24	Computer Vision and Color Measurement Techniques for Inline Monitoring of Cheese Curd Syneresis. Journal of Dairy Science, 2007, 90, 3162-3170.	1.4	32
25	A comparison of on-line techniques for determination of curd setting time using cheesemilks under different rates of coagulation. Journal of Food Engineering, 1999, 41, 43-54.	2.7	31
26	Effect of milk fat concentration and gel firmness on syneresis during curd stirring in cheese-making. International Dairy Journal, 2009, 19, 264-268.	1.5	31
27	Assessment of infant formula quality and composition using Vis-NIR, MIR and Raman process analytical technologies. Talanta, 2018, 183, 320-328.	2.9	31
28	Effect of hydrolyzed whey protein on surface morphology, water sorption, and glass transition temperature of a model infant formula. Journal of Dairy Science, 2016, 99, 6961-6972.	1.4	30
29	Application of Mid-Infrared Spectroscopy to the Prediction of Maturity and Sensory Texture Attributes of Cheddar Cheese. Journal of Food Science, 2007, 72, E130-E137.	1.5	29
30	Prediction of processed cheese instrumental texture and meltability by mid-infrared spectroscopy coupled with chemometric tools. Journal of Food Engineering, 2007, 80, 1068-1077.	2.7	26
31	The effect of direct and indirect heat treatment on the attributes of whey protein beverages. International Dairy Journal, 2018, 85, 144-152.	1.5	26
32	Evaluation of on-line optical sensing techniques for monitoring curd moisture content and solids in whey during syneresis. Food Research International, 2010, 43, 177-182.	2.9	22
33	Influence of an exopolysaccharide produced by a starter on milk coagulation and curd syneresis. International Dairy Journal, 2012, 22, 48-57.	1.5	21
34	Water sorption and diffusion properties of spray-dried dairy powders containing intact and hydrolysed whey protein. LWT - Food Science and Technology, 2016, 68, 119-126.	2.5	21
35	Visible-near infrared spectroscopy sensor for predicting curd and whey composition during cheese processing. Sensing and Instrumentation for Food Quality and Safety, 2009, 3, 62-69.	1.5	20
36	The physical nature of stickiness in the spray drying of dairy products – a review. Dairy Science and Technology, 2013, 93, 331-346.	2.2	19

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37	The effect of protein profile and preheating on denaturation of whey proteins and development of viscosity in milk protein beverages during heat treatment. <i>International Journal of Dairy Technology</i> , 2020, 73, 494-501.	1.3	18
38	Prediction of Inorganic Salt and Moisture Content of Process Cheese Using Dielectric Spectroscopy. <i>International Journal of Food Properties</i> , 2005, 8, 543-557.	1.3	17
39	Application of Image Texture Analysis for Online Determination of Curd Moisture and Whey Solids in a Laboratory-Scale Stirred Cheese Vat. <i>Journal of Food Science</i> , 2008, 73, E250-8.	1.5	17
40	Effects of hydrolysis on solid-state relaxation and stickiness behavior of sodium caseinate-lactose powders. <i>Journal of Dairy Science</i> , 2012, 95, 2270-2281.	1.4	17
41	Effects of milk composition, stir-out time, and pressing duration on curd moisture and yield. <i>Journal of Dairy Science</i> , 2011, 94, 2673-2679.	1.4	16
42	Prediction of sensory textural properties from rheological analysis for process cheeses varying in emulsifying salt, protein and moisture contents. <i>Journal of the Science of Food and Agriculture</i> , 2007, 87, 641-650.	1.7	15
43	Validation of a curd-syneresis sensor over a range of milk composition and process parameters. <i>Journal of Dairy Science</i> , 2009, 92, 5386-5395.	1.4	15
44	Preliminary evaluation of endogenous milk fluorophores as tracer molecules for curd syneresis. <i>Journal of Dairy Science</i> , 2011, 94, 5350-5358.	1.4	15
45	A comparison of pilot-scale supersonic direct steam injection to conventional steam infusion and tubular heating systems for the heat treatment of protein-enriched skim milk-based beverages. <i>Innovative Food Science and Emerging Technologies</i> , 2019, 52, 282-290.	2.7	15
46	COMPARISON OF MATHEMATICAL MODELS APPLIED TO THE RENNET COAGULATION OF SKIM MILKS. <i>Journal of Texture Studies</i> , 1996, 26, 607-634.	1.1	12
47	Correlation Between Process Cheese Meltability Determined by Sensory Analysis, Computer Vision Method and Olson and Price Test. <i>International Journal of Food Properties</i> , 2005, 8, 267-275.	1.3	12
48	Evaluation of Models for Temperature-Dependent Viscosity Changes in Dairy Protein Beverage Formulations During Thermal Processing. <i>Journal of Food Science</i> , 2018, 83, 937-945.	1.5	12
49	Measurement of syneretic properties of rennet-induced curds and impact of factors such as concentration of milk: A review. <i>Trends in Food Science and Technology</i> , 2019, 91, 530-540.	7.8	12
50	Investigation of an in-line prototype fluorescence and infrared backscatter sensor to monitor rennet-induced coagulation of skim milk at different protein concentrations. <i>International Journal of Food Science and Technology</i> , 2020, 55, 175-182.	1.3	12
51	A THREE-POINT BENDING TEST FOR PREDICTION OF SENSORY TEXTURE IN PROCESSED CHEESE. <i>Journal of Texture Studies</i> , 2007, 38, 438-456.	1.1	11
52	Development of chemometric models using Vis-NIR and Raman spectral data fusion for assessment of infant formula storage temperature and time. <i>Innovative Food Science and Emerging Technologies</i> , 2021, 67, 102551.	2.7	10
53	In-line viscometry in the dairy processing industry. <i>International Journal of Dairy Technology</i> , 1995, 48, 44-49.	1.3	8
54	Evaluation of a vat wall-mounted image capture system using image processing techniques to monitor curd moisture during syneresis with temperature treatments. <i>Journal of Food Engineering</i> , 2010, 99, 257-262.	2.7	8

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55	Comparison between red-green-blue imaging and visible-near infrared reflectance as potential process analytical tools for monitoring syneresis. <i>Journal of Dairy Science</i> , 2010, 93, 1882-1889.	1.4	8
56	Kinetics of moisture loss during stirring of cheese curds produced from standardised milks of cows on pasture or indoor feeding systems. <i>International Journal of Dairy Technology</i> , 2018, 71, 663-672.	1.3	6
57	The use of colour parameters derived from an online fibre-optic sensor to monitor curd syneresis during cheese making. <i>Journal of Food Engineering</i> , 2009, 94, 1-6.	2.7	5
58	The potential for scale economies in milk powder processing: an Irish case study. <i>International Journal of Dairy Technology</i> , 2014, 67, 129-134.	1.3	4
59	Monitoring Gel Formation in Cheese Manufacture. , 2022, , 238-244.		2
60	Fluorescence-based analyser as a rapid tool for determining soluble protein content in dairy ingredients and infant milk formula. <i>Innovative Food Science and Emerging Technologies</i> , 2019, 52, 75-79.	2.7	1
61	Information management systems for dairy factory laboratories. <i>International Journal of Dairy Technology</i> , 1992, 45, 107-112.	1.3	0
62	Light Sidescatter Measurements of Cheese Whey. , 2008, , .		0