

Petr Dejmek

List of Publications by Year in descending order

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104
papers

4,973
citations

87888

38
h-index

95266

68
g-index

109
all docs

109
docs citations

109
times ranked

3792
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass-based particles for the formulation of Pickering type emulsions in food and topical applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 458, 48-62.	4.7	317
2	Calibrated color measurements of agricultural foods using image analysis. <i>Postharvest Biology and Technology</i> , 2006, 41, 285-295.	6.0	265
3	Pulsed electric field treatment for solid-liquid extraction of red beetroot pigment. <i>Journal of Food Engineering</i> , 2004, 64, 381-388.	5.2	206
4	Quinoa starch granules: a candidate for stabilising food-grade Pickering emulsions. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 1841-1847.	3.5	201
5	In situ visualization of the effect of a pulsed electric field on plant tissue. <i>Journal of Food Engineering</i> , 2002, 55, 223-230.	5.2	181
6	Emulsion stabilizing capacity of intact starch granules modified by heat treatment or octenyl succinic anhydride. <i>Food Science and Nutrition</i> , 2013, 1, 157-171.	3.4	164
7	Starch particles for food based Pickering emulsions. <i>Procedia Food Science</i> , 2011, 1, 95-103.	0.6	151
8	Storage and digestion stability of encapsulated curcumin in emulsions based on starch granule Pickering stabilization. <i>Food Hydrocolloids</i> , 2017, 63, 309-320.	10.7	147
9	Quinoa starch granules as stabilizing particles for production of Pickering emulsions. <i>Faraday Discussions</i> , 2012, 158, 139.	3.2	137
10	Preparation and encapsulation properties of double Pickering emulsions stabilized by quinoa starch granules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 423, 147-153.	4.7	117
11	Sensory and rheological screening of exopolysaccharide producing strains of bacterial yoghurt cultures. <i>International Dairy Journal</i> , 2006, 16, 111-118.	3.0	111
12	Pulsed electric field in combination with vacuum impregnation with trehalose improves the freezing tolerance of spinach leaves. <i>Journal of Food Engineering</i> , 2008, 88, 144-148.	5.2	111
13	Thermal Denaturation of Whey Proteins in Mixtures with Caseins Studied by Differential Scanning Calorimetry. <i>Journal of Dairy Science</i> , 1990, 73, 590-600.	3.4	104
14	Fabrication of encapsulated oil powders from starch granule stabilized W/O/W Pickering emulsions by freeze-drying. <i>Food Hydrocolloids</i> , 2015, 51, 261-271.	10.7	92
15	Colour and image texture analysis in classification of commercial potato chips. <i>Food Research International</i> , 2007, 40, 1146-1154.	6.2	88
16	A Low Cost Video Technique for Colour Measurement of Potato Chips. <i>LWT - Food Science and Technology</i> , 1999, 32, 216-222.	5.2	87
17	Freezing and freeze-drying of Pickering emulsions stabilized by starch granules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 512-520.	4.7	81
18	RELATION BETWEEN SENSORY TEXTURE PROPERTIES AND EXOPOLYSACCHARIDE DISTRIBUTION IN SET AND IN STIRRED YOGHURTS PRODUCED WITH DIFFERENT STARTER CULTURES. <i>Journal of Texture Studies</i> , 2005, 36, 174-189.	2.5	80

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19	Surface film pressure of β -lactoglobulin, α -lactalbumin and bovine serum albumin at the air/water interface studied by wilhelmy plate and drop volume. <i>Journal of Colloid and Interface Science</i> , 1992, 150, 394-403.	9.4	79
20	Using the Surface Evolver to model droplet formation processes in membrane emulsification. <i>Journal of Colloid and Interface Science</i> , 2004, 279, 175-185.	9.4	75
21	Rheological Properties of Heat-Induced β -Lactoglobulin Gels. <i>Journal of Dairy Science</i> , 1990, 73, 45-53.	3.4	72
22	Pulsed electric field treatment for solid-liquid extraction of red beetroot pigment: mathematical modelling of mass transfer. <i>Journal of Food Engineering</i> , 2004, 64, 229-236.	5.2	72
23	Effect of osmotic pretreatment and pulsed electric field on the viscoelastic properties of potato tissue. <i>Journal of Food Engineering</i> , 2003, 59, 169-175.	5.2	71
24	Metabolomic evaluation of pulsed electric field-induced stress on potato tissue. <i>Planta</i> , 2009, 230, 469-479.	3.2	69
25	Changes in proteins, physical stability and structure in directly heated UHT milk during storage at different temperatures. <i>International Dairy Journal</i> , 2017, 71, 60-75.	3.0	64
26	Heat-induced aggregation of β -lactoglobulin studied by dynamic light scattering. <i>International Dairy Journal</i> , 1996, 6, 343-357.	3.0	62
27	Minimizing whey protein retention in cross-flow microfiltration of skim milk. <i>International Dairy Journal</i> , 1997, 7, 237-242.	3.0	55
28	Rheology of Buildup, Breakdown, and Rebodying of Acid Casein Gels. <i>Journal of Dairy Science</i> , 1993, 76, 3310-3316.	3.4	54
29	Interactions between EPS-producing <i>Streptococcus thermophilus</i> strains in mixed yoghurt cultures. <i>Journal of Dairy Research</i> , 2006, 73, 385-393.	1.4	52
30	A ^{43}Ca and ^{31}P NMR study of the calcium and phosphate equilibria in heated milk solutions. <i>Journal of Dairy Research</i> , 1990, 57, 355-364.	1.4	50
31	Effect of pulsed electric field on the germination of barley seeds. <i>LWT - Food Science and Technology</i> , 2012, 47, 161-166.	5.2	47
32	Relationship between the Electrical and Rheological Properties of Potato Tuber Tissue after Various Forms of Processing. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 1218-1223.	1.3	44
33	Exploring Metabolic Responses of Potato Tissue Induced by Electric Pulses. <i>Food Biophysics</i> , 2008, 3, 352-360.	3.0	44
34	Development and breakdown of structure in yoghurt studied by oscillatory rheological measurements. <i>Dairy Science and Technology</i> , 1993, 73, 371-379.	0.9	43
35	Characterization of a cold-gelling whey protein concentrate. <i>International Dairy Journal</i> , 1997, 7, 601-608.	3.0	42
36	Time-Resolved Shear Viscosity of Wheat Flour Doughs—Effect of Mixing, Shear Rate, and Resting on the Viscosity of Doughs of Different Flours. <i>Cereal Chemistry</i> , 1997, 74, 49-55.	2.2	40

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37	The Syneresis of Rennet-coagulated Curd. Cheese: Chemistry, Physics and Microbiology, 2004, , 71-103.	0.2	40
38	Pulsed electric field reduces the permeability of potato cell wall. Bioelectromagnetics, 2008, 29, 296-301.	1.6	39
39	Influence of Pulsed Electric Field Protocols on the Reversible Permeabilization of Rucola Leaves. Food and Bioprocess Technology, 2014, 7, 761-773.	4.7	39
40	Fuzzy Traceability: A Process Simulation Derived Extension of the Traceability Concept in Continuous Food Processing. Food and Bioproducts Processing, 2007, 85, 354-359.	3.6	37
41	Dynamic Rheology of Rennet Curd. Journal of Dairy Science, 1987, 70, 1325-1330.	3.4	36
42	Reproducible Texture Analysis of Potato Chips. Journal of Food Science, 1999, 64, 309-312.	3.1	36
43	Plug flow of yoghurt in piping as determined by cross-correlated dual-plane electrical resistance tomography. Journal of Food Engineering, 2006, 76, 163-168.	5.2	36
44	Gas in Scattering Media Absorption Spectroscopy (GASMAS) Detected Persistent Vacuum in Apple Tissue After Vacuum Impregnation. Food Biophysics, 2012, 7, 28-34.	3.0	35
45	The Electrical Conductivity of Milk – The Effect of Dilution and Temperature. International Journal of Food Properties, 2005, 8, 15-22.	3.0	34
46	Effects of Pulsed Electric Field on the Viscoelastic Properties of Potato Tissue. Food Biophysics, 2009, 4, 229-239.	3.0	34
47	Microscopic studies providing insight into the mechanisms of mass transfer in vacuum impregnation. Innovative Food Science and Emerging Technologies, 2013, 18, 169-176.	5.6	34
48	Straightforward rapid spectrophotometric quantification of total cyanogenic glycosides in fresh and processed cassava products. Food Chemistry, 2014, 158, 20-27.	8.2	34
49	CFD simulation and ERT visualization of the displacement of yoghurt by water on industrial scale. Journal of Food Engineering, 2007, 80, 166-175.	5.2	32
50	RELATIONSHIP BETWEEN INSTRUMENTAL AND SENSORY ANALYSIS OF TEXTURE AND COLOR OF POTATO CHIPS. Journal of Texture Studies, 1999, 30, 677-690.	2.5	31
51	Volume Measurement Method of Potato Chips. International Journal of Food Properties, 2004, 7, 37-44.	3.0	31
52	Effect of pulsed electric field pretreatment on solid – liquid expression from potato tissue. Journal of Food Engineering, 2005, 71, 164-169.	5.2	31
53	³¹ P-nuclear magnetic resonance study of milk fractions. Journal of Dairy Research, 1986, 53, 539-545.	1.4	30
54	Syneresis of submerged single curd grains and curd rheology. International Dairy Journal, 2000, 10, 489-496.	3.0	29

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55	Osmotic-treatment-induced cell death and osmotic processing kinetics of apples with characterised raw material properties. <i>Journal of Food Engineering</i> , 2004, 63, 47-56.	5.2	29
56	Edible proteins from coconut milk press cake; one step alkaline extraction and characterization by electrophoresis and mass spectrometry. <i>Food Research International</i> , 2012, 47, 146-151.	6.2	29
57	Dynamic object-oriented heat exchanger models for simulation of fluid property transitions. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 2291-2303.	4.8	27
58	Electropermeabilization of apple tissue: Effect of cell size, cell size distribution and cell orientation. <i>Biosystems Engineering</i> , 2010, 105, 357-366.	4.3	27
59	Binding of Mg ²⁺ and Ca ²⁺ to \hat{I}^2 -casein A1: a multi-nuclear magnetic resonance study. <i>Journal of Dairy Research</i> , 1993, 60, 65-78.	1.4	25
60	Atomic force microscopy studies on whey proteins. <i>International Dairy Journal</i> , 1997, 7, 813-819.	3.0	25
61	Primary proteolysis studied in a cast cheese made from microfiltered milk. <i>International Dairy Journal</i> , 2006, 16, 623-632.	3.0	25
62	One-dimensional syneresis of rennet-induced gels. <i>International Dairy Journal</i> , 2000, 10, 829-834.	3.0	24
63	Influence of vacuum impregnation and pulsed electric field on the freezing temperature and ice propagation rates of spinach leaves. <i>LWT - Food Science and Technology</i> , 2015, 64, 497-502.	5.2	23
64	Modeling electroporation of the non-treated and vacuum impregnated heterogeneous tissue of spinach leaves. <i>Innovative Food Science and Emerging Technologies</i> , 2015, 29, 55-64.	5.6	23
65	Secondary structures in \hat{I}^2 -casein peptide 1â€“42: a two dimensional nuclear magnetic resonance study. <i>Journal of Dairy Research</i> , 1994, 61, 495-506.	1.4	22
66	Flux-based measures of adsorption to ultrafiltration membranes. <i>Journal of Membrane Science</i> , 1989, 40, 189-197.	8.2	21
67	Two-dimensional nuclear magnetic resonance study of the \hat{I}^2 -casein peptide 1â€“25: resonance assignments and secondary structure. <i>BBA - Proteins and Proteomics</i> , 1993, 1202, 121-128.	2.1	21
68	Determination of heat transfer coefficient during high pressure frying of potatoes. <i>Journal of Food Engineering</i> , 2010, 96, 528-532.	5.2	21
69	TURBULENCE PROMOTERS IN ULTRAFILTRATION OF WHEY PROTEIN CONCENTRATE. <i>Journal of Food Science</i> , 1974, 39, 1014-1017.	3.1	20
70	Liquid droplet-like behaviour of whole casein aggregates adsorbed on graphite studied by nanoindentation with AFM. <i>Food Hydrocolloids</i> , 2007, 21, 726-738.	10.7	20
71	Sugar Diffusivity in Agar Gel/Milk Bilayer Systems. <i>Journal of Food Science</i> , 1997, 62, 454-456.	3.1	19
72	Precision conductometry in milk renneting. <i>Journal of Dairy Research</i> , 1989, 56, 69-78.	1.4	18

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73	Behavior of the surviving population of <i>Lactobacillus plantarum</i> 564 upon the application of pulsed electric fields. <i>Innovative Food Science and Emerging Technologies</i> , 2013, 17, 93-98.	5.6	18
74	Native milk fat globule size and its influence on whipping properties. <i>International Dairy Journal</i> , 2016, 61, 176-181.	3.0	18
75	Soaking in a NaCl solution produce paler potato chips. <i>LWT - Food Science and Technology</i> , 2007, 40, 307-312.	5.2	17
76	In vitro intestinal lipolysis of emulsions based on starch granule Pickering stabilization. <i>Food Hydrocolloids</i> , 2019, 95, 468-475.	10.7	17
77	From Diets to Foods: Using Linear Programming to Formulate a Nutritious, Minimum-Cost Porridge Mix for Children Aged 1 to 2 Years. <i>Food and Nutrition Bulletin</i> , 2015, 36, 75-85.	1.4	16
78	Production of vegetable oil in milk emulsions using membrane emulsification. <i>Desalination</i> , 2009, 245, 631-638.	8.2	15
79	Studies on some raw material characteristics in different Swedish apple varieties. <i>Journal of Food Engineering</i> , 2004, 62, 121-129.	5.2	13
80	Sensor fusion as a tool to monitor dynamic dairy processes. <i>Journal of Food Engineering</i> , 2006, 76, 154-162.	5.2	11
81	A dynamic object-oriented model for efficient simulation of fluid dispersion in turbulent flow with varying fluid properties. <i>Chemical Engineering Science</i> , 2007, 62, 2168-2178.	3.8	11
82	Investigation of the metabolic consequences of impregnating spinach leaves with trehalose and applying a pulsed electric field. <i>Bioelectrochemistry</i> , 2016, 112, 153-157.	4.6	11
83	Fouling behaviour of silica on four different microfiltration membranes. <i>Journal of Membrane Science</i> , 1993, 76, 51-60.	8.2	10
84	EVALUATION OF THE TEXTURE OF FRIED POTATOES. <i>Journal of Texture Studies</i> , 2004, 35, 277-291.	2.5	10
85	Gloss measurements of raw agricultural products using image analysis. <i>Food Research International</i> , 2010, 43, 18-25.	6.2	10
86	A dynamic object-oriented model for efficient simulation of microbial reduction in dispersed turbulent flow. <i>Journal of Food Engineering</i> , 2008, 86, 358-369.	5.2	9
87	The influence of serum phase on the whipping time of <i>Unhomogenised</i> cream. <i>International Dairy Journal</i> , 2015, 49, 56-61.	3.0	9
88	PREDICTING RIPENING STAGES OF BANANAS (<i>MUSA CAVENDISH</i>) BY COMPUTER VISION. <i>Acta Horticulturae</i> , 2005, , 1363-1370.	0.2	8
89	Characterization of the agglomeration of roasted shredded cassava (<i>Manihot esculenta</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2.1 8	2.1	8
90	Fusion of skim milk cheese curd grains: Development of a method to measure the fracture stress of the bonds between fused curd grains. <i>International Dairy Journal</i> , 2002, 12, 455-461.	3.0	7

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91	Predictability of the consistency of porridges using different methods to measure flour swelling. Starch/Staerke, 2014, 66, 199-207.	2.1	7
92	The Syneresis of Rennet-Coagulated Curd. , 2017, , 145-177.		5
93	APPLICATION OF IMAGE ANALYSIS TO MEASUREMENT OF DYNAMIC SURFACE TENSION USING OSCILLATING JET METHOD. Journal of Dispersion Science and Technology, 1993, 14, 661-673.	2.4	4
94	Formation of a Protein Aggregate Layer at a Milk/Acidified Gel Interface. International Dairy Journal, 1998, 8, 801-806.	3.0	4
95	Energy cost of high electric field pulse treatment. Trends in Food Science and Technology, 1994, 5, 265.	15.1	3
96	Effect of pH and soybean flour heat treatment on the texture and colour of fortified roasted shredded cassava roots (garri). Starch/Staerke, 2013, 65, 628-636.	2.1	3
97	Discussion session on food gels. Food Hydrocolloids, 2006, 20, 446-447.	10.7	2
98	Cyanogenic Potential of Roasted Cassava (Manihot esculenta Crantz) roots Rale from Inhambane Province, Mozambique. Czech Journal of Food Sciences, 2009, 27, S375-S378.	1.2	2
99	Nanorheological properties of casein. Special Publication - Royal Society of Chemistry, 0, , 218-229.	0.0	2
100	Heat Induced Gels from Coconut Press Cake Proteins. Food and Nutrition Sciences (Print), 2014, 05, 562-570.	0.4	2
101	Prediction of reverse osmosis apparatus performance. Chemical Engineering Science, 1972, 27, 1577-1581.	3.8	1
102	System options and costs in dairy ultrafiltration. Desalination, 1980, 35, 397-400.	8.2	1
103	Predicting flux in UF of milk. Desalination, 1985, 53, 135-142.	8.2	0
104	Rheology of Set Type and Stirred Type Yoghurt: Build-up, Break-down and Recovery; The Effects of pH, Temperature and Starter. , 1994, , 90-92.		0