

Vm Bala Balasubramaniam

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166
ext. papers

4,484
ext. citations

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L-index

#	Paper	IF	Citations
162	Opportunities and challenges in high pressure processing of foods. <i>Critical Reviews in Food Science and Nutrition</i> , 2007 , 47, 69-112	11.5	592
161	Principles and application of high pressure-based technologies in the food industry. <i>Annual Review of Food Science and Technology</i> , 2015 , 6, 435-62	14.7	212
160	Compression Heating of Selected Fatty Food Materials during High-pressure Processing. <i>Journal of Food Science</i> , 2003 , 68, 254-259	3.4	157
159	Inactivation kinetics of selected aerobic and anaerobic bacterial spores by pressure-assisted thermal processing. <i>International Journal of Food Microbiology</i> , 2007 , 113, 321-9	5.8	142
158	Recommended laboratory practices for conducting high-pressure microbial inactivation experiments. <i>Innovative Food Science and Emerging Technologies</i> , 2004 , 5, 299-306	6.8	121
157	Combined pressure-thermal inactivation kinetics of <i>Bacillus amyloliquefaciens</i> spores in egg patty mince. <i>Journal of Food Protection</i> , 2006 , 69, 853-60	2.5	110
156	THE EFFECT OF EDIBLE FILM ON OIL UPTAKE AND MOISTURE RETENTION OF A DEEP-FAT FRIED POULTRY PRODUCT. <i>Journal of Food Process Engineering</i> , 1997 , 20, 17-29	2.4	106
155	Quasi-adiabatic temperature increase during high pressure processing of selected foods. <i>Journal of Food Engineering</i> , 2007 , 80, 199-205	6	104
154	High-pressure Food Processing. <i>Food Science and Technology International</i> , 2008 , 14, 413-418	2.6	103
153	INACTIVATION OF CLOSTRIDIUM BOTULINUM TYPE E SPORES BY HIGH PRESSURE PROCESSING. <i>Journal of Food Safety</i> , 1999 , 19, 277-288	2	85
152	Inactivation of <i>Bacillus stearothermophilus</i> spores in egg patties by pressure-assisted thermal processing. <i>LWT - Food Science and Technology</i> , 2006 , 39, 844-851	5.4	76
151	Energy Requirements for Alternative Food Processing Technologies Principles, Assumptions, and Evaluation of Efficiency. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2015 , 14, 536-554	16.4	74
150	Compression heating influence of pressure transmitting fluids on bacteria inactivation during high pressure processing. <i>Food Research International</i> , 2003 , 36, 661-668	7	74
149	Combined pressure-temperature effects on carotenoid retention and bioaccessibility in tomato juice. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 7808-17	5.7	73
148	Effect of high pressure on moisture and NaCl diffusion into turkey breast. <i>LWT - Food Science and Technology</i> , 2008 , 41, 836-844	5.4	70
147	Effect of high pressure processing on the immunoreactivity of almond milk. <i>Food Research International</i> , 2014 , 62, 215-222	7	61
146	Effect of pretreatments on carrot texture after thermal and pressure-assisted thermal processing. <i>Journal of Food Engineering</i> , 2008 , 88, 541-547	6	58

145	Storage stability of lycopene in tomato juice subjected to combined pressure-heat treatments. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 8305-13	5.7	56
144	The inactivation of <i>Listeria monocytogenes</i> by pulsed electric field (PEF) treatment in a static chamber. <i>Food Microbiology</i> , 2004 , 21, 91-95	6	56
143	Influence of high-pressure processing on selected polymeric materials and on the migration of a pressure-transmitting fluid. <i>Packaging Technology and Science</i> , 2002 , 15, 255-262	2.3	56
142	Optimization of anthocyanins extraction from black carrot pomace with thermosonication. <i>Food Chemistry</i> , 2017 , 237, 461-470	8.5	54
141	Evaluating the impact of thermal and pressure treatment in preserving textural quality of selected foods. <i>LWT - Food Science and Technology</i> , 2010 , 43, 525-534	5.4	51
140	Kinetics of <i>Bacillus coagulans</i> spore inactivation in tomato juice by combined pressure-heat treatment. <i>Food Control</i> , 2013 , 30, 168-175	6.2	48
139	Engineering Process Characterization of High-Pressure Homogenization from Laboratory to Industrial Scale. <i>Food Engineering Reviews</i> , 2017 , 9, 143-169	6.5	46
138	Influence of pressurization rate and pressure pulsing on the inactivation of <i>Bacillus amyloliquefaciens</i> spores during pressure-assisted thermal processing. <i>Journal of Food Protection</i> , 2009 , 72, 775-82	2.5	43
137	Compressibility and density of select liquid and solid foods under pressures up to 700MPa. <i>Journal of Food Engineering</i> , 2010 , 96, 568-574	6	43
136	Evaluation of the instrumental quality of pressure-assisted thermally processed carrots. <i>Journal of Food Science</i> , 2007 , 72, E264-70	3.4	43
135	The effect of high-pressure food processing on the sorption behaviour of selected packaging materials. <i>Packaging Technology and Science</i> , 2004 , 17, 139-153	2.3	43
134	Efficacy of High Hydrostatic Pressure Treatment in Reducing <i>Escherichia coli</i> O157 and <i>Listeria monocytogenes</i> in Alfalfa Seeds. <i>Journal of Food Science</i> , 2006 , 69, M117-M120	3.4	42
133	High-Pressure Processing of Broccoli Sprouts: Influence on Bioactivation of Glucosinolates to Isothiocyanates. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 8578-8585	5.7	41
132	Monitoring biochemical changes in bacterial spore during thermal and pressure-assisted thermal processing using FT-IR spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 9311-7	5.7	36
131	High pressure processing controls microbial growth and minimally alters the levels of health promoting compounds in grapefruit (<i>Citrus paradisi</i> Macfad) juice. <i>Innovative Food Science and Emerging Technologies</i> , 2013 , 18, 7-14	6.8	35
130	Inactivation of <i>Listeria monocytogenes</i> and <i>Listeria innocua</i> in yogurt drink applying combination of high pressure processing and mint essential oils. <i>Food Control</i> , 2011 , 22, 1435-1441	6.2	35
129	Kinetics of <i>Bacillus cereus</i> spore inactivation in cooked rice by combined pressure-heat treatment. <i>Journal of Food Protection</i> , 2013 , 76, 616-23	2.5	33
128	Pressure-thermic sterilization: A feasible approach for the inactivation of <i>Bacillus amyloliquefaciens</i> and <i>Geobacillus stearothermophilus</i> spores. <i>Innovative Food Science and Emerging Technologies</i> , 2013 , 19, 115-123	6.8	32

127	Influence of selected packaging materials on some quality aspects of pressure-assisted thermally processed carrots during storage. <i>LWT - Food Science and Technology</i> , 2012 , 46, 437-447	5.4	30
126	Determination of spore inactivation during thermal and pressure-assisted thermal processing using FT-IR spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 10300-6	5.7	30
125	Liquid-to-particle convective heat transfer in non-Newtonian carrier medium during continuous tube flow. <i>Journal of Food Engineering</i> , 1994 , 23, 169-187	6	30
124	Grapefruit (<i>Citrus paradisi</i> Macfad) phytochemicals composition is modulated by household processing techniques. <i>Journal of Food Science</i> , 2012 , 77, C921-6	3.4	29
123	EFFECT OF HIGH-PRESSURE PROCESSING ON TEXTURE AND DRYING BEHAVIOR OF PINEAPPLE. <i>Journal of Food Process Engineering</i> , 2009 , 32, 369-381	2.4	29
122	The inactivation of <i>Escherichia coli</i> O157:H7 during pulsed electric field (PEF) treatment in a static chamber. <i>Food Microbiology</i> , 2002 , 19, 351-361	6	29
121	Improvement in Texture of Pressure-Assisted Thermally Processed Carrots by Combined Pretreatment using Response Surface Methodology. <i>Food and Bioprocess Technology</i> , 2010 , 3, 762-771	5.1	28
120	Texture and Water Retention Improvement in High-pressure Thermally Treated Scrambled Egg Patties. <i>Journal of Food Science</i> , 2006 , 71, E52-E61	3.4	28
119	Improvements in emulsion stability of dairy beverages treated by high pressure homogenization: A pilot-scale feasibility study. <i>Journal of Food Engineering</i> , 2017 , 193, 42-52	6	27
118	Quality of shelf-stable low-acid vegetables processed using pressure-thermal sterilization. <i>LWT - Food Science and Technology</i> , 2014 , 57, 243-252	5.4	26
117	Kinetic modeling of ascorbic acid degradation of pineapple juice subjected to combined pressure-thermal treatment. <i>Journal of Food Engineering</i> , 2018 , 224, 62-70	6	23
116	Comparison of effects of high-pressure processing and heat treatment on immunoactivity of bovine milk immunoglobulin G in enriched soymilk under equivalent microbial inactivation levels. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 739-46	5.7	23
115	Convective Heat Transfer at Particle-Liquid Interface in Continuous Tube Flow at Elevated Fluid Temperatures. <i>Journal of Food Science</i> , 1994 , 59, 675-681	3.4	23
114	Impact of Thermal and Pressure-Based Technologies on Carotenoid Retention and Quality Attributes in Tomato Juice. <i>Food and Bioprocess Technology</i> , 2017 , 10, 808-818	5.1	22
113	Determination of In-Situ Thermal Conductivity, Thermal Diffusivity, Volumetric Specific Heat and Isobaric Specific Heat of Selected Foods Under Pressure. <i>International Journal of Food Properties</i> , 2012 , 15, 169-187	3	22
112	Estimating pressure induced changes in vegetable tissue using in situ electrical conductivity measurement and instrumental analysis. <i>Journal of Food Engineering</i> , 2013 , 114, 47-56	6	22
111	Influence of High-Pressure Blanching on Polyphenoloxidase Activity of Peach Fruits and its Drying Behavior. <i>International Journal of Food Properties</i> , 2009 , 12, 671-680	3	22
110	Thermal conductivity of selected liquid foods at elevated pressures up to 700MPa. <i>Journal of Food Engineering</i> , 2007 , 83, 444-451	6	22

109	High Pressure Processing Effects on Lipids Thermophysical Properties and Crystallization Kinetics. <i>Food Engineering Reviews</i> , 2016 , 8, 393-413	6.5	22
108	Efficacy of pressure-assisted thermal processing, in combination with organic acids, against <i>Bacillus amyloliquefaciens</i> spores suspended in deionized water and carrot puree. <i>Journal of Food Science</i> , 2010 , 75, M46-52	3.4	21
107	High pressure assisted osmotic dehydrated ginger slices. <i>Journal of Food Engineering</i> , 2019 , 247, 19-29	6	21
106	Influence of high-pressure processing on the profile of polyglutamyl 5-methyltetrahydrofolate in selected vegetables. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 8709-17	5.7	20
105	Use of liquid crystals as temperature sensors in food processing research. <i>Journal of Food Engineering</i> , 1995 , 26, 219-230	6	18
104	Foaming Characteristics of Beverages and Its Relevance to Food Processing. <i>Food Engineering Reviews</i> , 2020 , 12, 229-250	6.5	17
103	Minimal effects of high-pressure treatment on <i>Salmonella enterica</i> serovar Typhimurium inoculated into peanut butter and peanut products. <i>Journal of Food Science</i> , 2010 , 75, E522-6	3.4	17
102	Effect of high pressure processing on dispersive and aggregative properties of almond milk. <i>Journal of the Science of Food and Agriculture</i> , 2016 , 96, 3821-30	4.3	16
101	Estimation of Accumulated Lethality Under Pressure-Assisted Thermal Processing. <i>Food and Bioprocess Technology</i> , 2014 , 7, 633-644	5.1	16
100	Case Studies on High-Pressure Processing of Foods 2011 , 36-50		16
99	High-pressure effects on the microstructure, texture, and color of white-brined cheese. <i>Journal of Food Science</i> , 2011 , 76, E399-404	3.4	16
98	Shelf-Stable Egg-Based Products Processed by High Pressure Thermal Sterilization. <i>Food Engineering Reviews</i> , 2012 , 4, 55-67	6.5	15
97	Influence of high pressure homogenization with and without lecithin on particle size and physicochemical properties of whey protein-based emulsions. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12578	2.4	14
96	Combined pressure-temperature effects on the chemical marker (4-hydroxy-5-methyl-3(2H)-furanone) formation in whey protein gels. <i>LWT - Food Science and Technology</i> , 2011 , 44, 2141-2146	5.4	14
95	Inactivation of <i>Bacillus amyloliquefaciens</i> spores by a combination of sucrose laurate and pressure-assisted thermal processing. <i>Journal of Food Protection</i> , 2010 , 73, 2043-52	2.5	14
94	High-pressure processing of Turkish white cheese for microbial inactivation. <i>Journal of Food Protection</i> , 2008 , 71, 102-8	2.5	14
93	Effects of pressure, shear, temperature, and their interactions on selected milk quality attributes. <i>Journal of Dairy Science</i> , 2021 , 104, 1531-1547	4	14
92	Fundamentals and Applications of High-Pressure Processing Technology. <i>Food Engineering Series</i> , 2016 , 3-17	0.5	13

91	Lethality enhancement of pressure-assisted thermal processing against <i>Bacillus amyloliquefaciens</i> spores in low-acid media using antimicrobial compounds. <i>Food Control</i> , 2016 , 59, 234-242	6.2	12
90	Ultrasonic Processing135-154		12
89	Microbiological Aspects of High-Pressure Processing of Food: Inactivation of Microbial Vegetative Cells and Spores. <i>Food Engineering Series</i> , 2016 , 271-294	0.5	11
88	In situ electrical conductivity measurement of select liquid foods under hydrostatic pressure to 800MPa. <i>Journal of Food Engineering</i> , 2007 , 82, 489-497	6	11
87	Microbial decontamination of food by high pressure processing 2012 , 370-406		10
86	Quality changes in combined pressure-thermal treated acidified vegetables during extended ambient temperature storage. <i>Innovative Food Science and Emerging Technologies</i> , 2018 , 49, 146-157	6.8	9
85	Principles of Food Processing 2014 , 1-15		9
84	Inactivation of <i>Geobacillus stearothermophilus</i> spores in low-acid foods by pressure-assisted thermal processing. <i>Journal of the Science of Food and Agriculture</i> , 2015 , 95, 174-8	4.3	9
83	High-Pressure Processing of Fluid Foods 2012 , 109-133		9
82	Variable volume piezometer for measurement of volumetric properties of materials under high pressure. <i>High Pressure Research</i> , 2009 , 29, 278-289	1.6	9
81	Effect of polarity and molecular structure of selected liquids on their heat of compression during high pressure processing. <i>High Pressure Research</i> , 2007 , 27, 299-307	1.6	9
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78	A rapid FTIR method for screening methyl sulfide and hexanal in modified atmosphere meal, ready-to-eat entrees. <i>LWT - Food Science and Technology</i> , 2003 , 36, 21-27	5.4	8
77	Effect of High Pressure and Irradiation Treatments on Hydration Characteristics of Navy Beans. <i>International Journal of Food Engineering</i> , 2005 , 1,	1.9	8
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71	High pressure crystallization of binary fat blend: A feasibility study. <i>Innovative Food Science and Emerging Technologies</i> , 2016 , 38, 302-311		6.8	7
70	Pressure-Thermal Kinetics of Furan Formation in Selected Fruit and Vegetable Juices. <i>Food and Bioprocess Technology</i> , 2017 , 10, 1959-1969		5.1	7
69	Microbiological efficacy of pressure assisted thermal processing and natural extracts against <i>Bacillus amyloliquefaciens</i> spores suspended in deionized water and beef broth. <i>Food and Bioprocess Technology</i> , 2015 , 95, 183-191		4.9	7
68	High-pressure Processing of Salads and Ready Meals	2005 , 33-45		7
67	ESTIMATION of CONVECTIVE HEAT TRANSFER BETWEEN FLUID and PARTICLE IN CONTINUOUS FLOW USING A REMOTE TEMPERATURE SENSOR1. <i>Journal of Food Process Engineering</i> , 1996 , 19, 223-240		2.4	7
66	Bioactive Compounds Extraction from the Black Carrot Pomace with Assistance of High Pressure Processing: An Optimization Study. <i>Waste and Biomass Valorization</i> , 2021 , 12, 5959		3.2	7
65	Physiological responses of <i>Bacillus amyloliquefaciens</i> spores to high pressure. <i>Journal of Microbiology and Biotechnology</i> , 2007 , 17, 524-9		3.3	7
64	Effect of high pressure on mass transfer kinetics of granny smith apple. <i>Drying Technology</i> , 2018 , 36, 1631-1641		2.6	6
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61	Use of Oscillating Magnetic Fields in Food Preservation	2011 , 222-235		5
60	FLUID to PARTICLE CONVECTIVE HEAT TRANSFER COEFFICIENT IN A HORIZONTAL SCRAPED SURFACE HEAT EXCHANGER DETERMINED FROM RELATIVE VELOCITY MEASUREMENT1. <i>Journal of Food Process Engineering</i> , 1996 , 19, 75-95		2.4	5
59	Physical Methods of Food Preservation	735-763		5
58	Process development of high pressure-based technologies for food: research advances and future perspectives. <i>Current Opinion in Food Science</i> , 2021 , 42, 270-277		9.8	4
57	Chlorine Dioxide (Gas)	359-365		4
56	Compression Heating of Selected Polymers During High-Pressure Processing. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12417		2.4	3

55	Effect of a post-packaging pasteurization process on inactivation of a <i>Listeria innocua</i> surrogate in meat products. <i>Food Science and Biotechnology</i> , 2014 , 23, 1477-1481	3	3
54	Liquid-to-particle heat transfer in continuous tube flow: Comparison between experimental techniques. <i>International Journal of Food Science and Technology</i> , 1996 , 31, 177-187	3.8	3
53	Influence of water activity and acidity on <i>Bacillus cereus</i> spore inactivation during combined high pressure-thermal treatment. <i>LWT - Food Science and Technology</i> , 2021 , 146, 111465	5.4	3
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48	Effects of Lipid Solid Mass Fraction and Non-Lipid Solids on Crystallization Behaviors of Model Fats under High Pressure. <i>Molecules</i> , 2019 , 24,	4.8	2
47	Thermal Effects on Lipids Crystallization Kinetics under High Pressure. <i>Crystal Growth and Design</i> , 2017 , 17, 4835-4843	3.5	2
46	Inactivation kinetics and injury recovery of <i>Bacillus amyloliquefaciens</i> spores in low-acid foods during pressure-assisted thermal processing. <i>Food Science and Biotechnology</i> , 2014 , 23, 1851-1857	3	2
45	The effect of water activity and temperature on the inactivation of <i>Enterococcus faecium</i> in peanut butter during superheated steam sanitation treatment. <i>Food Control</i> , 2021 , 125, 107942	6.2	2
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38	Combined effects of nisin, sucrose laurate ester and pressure-assisted thermal processing to inactivate <i>Bacillus amyloliquefaciens</i> spores. <i>Acta Alimentaria</i> , 2013 , 42, 301-307	1	1

37	Pulsed Electric Fields Processing Basics 2011 , 155-175		1
36	SYNERGISTIC EFFECT OF PRESSURE, TEMPERATURE AND pH ON INACTIVATION OF BACILLUS SUBTILIS SPORES IN BUFFER AND MODEL FOOD SYSTEMS. <i>Journal of Food Process Engineering</i> , 2009 , 33, 781	2.4	1
35	Impact of nonthermal food processing techniques on mycotoxins and their producing fungi. <i>International Journal of Food Science and Technology</i> ,	3.8	1
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