

Sara Spilimbergo

List of Publications by Year in descending order

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76
papers

2,943
citations

186265

28
h-index

175258

52
g-index

77
all docs

77
docs citations

77
times ranked

2148
citing authors

#	ARTICLE	IF	CITATIONS
1	High pressure carbon dioxide inactivation of microorganisms in foods: The past, the present and the future. <i>International Journal of Food Microbiology</i> , 2007, 117, 1-28.	4.7	465
2	Non-thermal bacterial inactivation with dense CO ₂ . <i>Biotechnology and Bioengineering</i> , 2003, 84, 627-638.	3.3	233
3	Microbial inactivation by high-pressure. <i>Journal of Supercritical Fluids</i> , 2002, 22, 55-63.	3.2	176
4	High pressure carbon dioxide pasteurization of solid foods: Current knowledge and future outlooks. <i>Trends in Food Science and Technology</i> , 2011, 22, 427-441.	15.1	117
5	Exploitation of λ -carrageenan aerogels as template for edible oleogel preparation. <i>Food Hydrocolloids</i> , 2017, 71, 68-75.	10.7	110
6	Inactivation of bacteria and spores by pulse electric field and high pressure CO ₂ at low temperature. <i>Biotechnology and Bioengineering</i> , 2003, 82, 118-125.	3.3	108
7	Effects of supercritical CO ₂ and N ₂ O pasteurisation on the quality of fresh apple juice. <i>Food Chemistry</i> , 2009, 115, 129-136.	8.2	101
8	Enzymatic, physicochemical, nutritional and phytochemical profile changes of apple (Golden Delicious) Tj ETQq0 0 0 rgBT /Overlock 10 T 279-286.	8.2	77
9	Carbon Dioxide Induced Silk Protein Gelation for Biomedical Applications. <i>Biomacromolecules</i> , 2012, 13, 2060-2072.	5.4	74
10	High Pressure Carbon Dioxide pasteurization of coconut water: A sport drink with high nutritional and sensory quality. <i>Journal of Food Engineering</i> , 2015, 145, 73-81.	5.2	69
11	Inactivation of <i>Bacillus subtilis</i> spores by supercritical CO ₂ treatment. <i>Innovative Food Science and Emerging Technologies</i> , 2003, 4, 161-165.	5.6	68
12	Determination of extracellular and intracellular pH of <i>Bacillus subtilis</i> suspension under CO ₂ treatment. <i>Biotechnology and Bioengineering</i> , 2005, 92, 447-451.	3.3	65
13	High pressure carbon dioxide pasteurization of fresh-cut carrot. <i>Journal of Supercritical Fluids</i> , 2013, 79, 92-100.	3.2	58
14	Comparison of three types of drying (supercritical CO ₂ , air and freeze) on the quality of dried apple "Quality index approach. <i>LWT - Food Science and Technology</i> , 2018, 94, 64-72.	5.2	52
15	Supercritical fluid extraction of oils from apple seeds: Process optimization, chemical characterization and comparison with a conventional solvent extraction. <i>Innovative Food Science and Emerging Technologies</i> , 2020, 64, 102428.	5.6	51
16	Real-time monitoring of cell membrane modification during supercritical CO ₂ pasteurization. <i>Journal of Supercritical Fluids</i> , 2009, 48, 93-97.	3.2	49
17	Supercritical gases pasteurization of apple juice. <i>Journal of Supercritical Fluids</i> , 2007, 40, 485-489.	3.2	44
18	Supercritical CO ₂ and N ₂ O pasteurisation of peach and kiwi juice. <i>International Journal of Food Science and Technology</i> , 2010, 45, 1619-1625.	2.7	43

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19	High power ultrasound combined with supercritical carbon dioxide for the drying and microbial inactivation of coriander. <i>Journal of CO2 Utilization</i> , 2018, 24, 516-521.	6.8	38
20	Supercritical carbon dioxide combined with high power ultrasound: An effective method for the pasteurization of coconut water. <i>Journal of Supercritical Fluids</i> , 2014, 92, 257-263.	3.2	37
21	E: Food Engineering & Physical Properties. Effect of Supercritical Carbon Dioxide Pasteurization on Natural Microbiota, Texture, and Microstructure of Fresh Cut Coconut. <i>Journal of Food Science</i> , 2012, 77, E137-43.	3.1	35
22	Supercritical Carbon Dioxide Processing of Dry Cured Ham Spiked with <i>Listeria monocytogenes</i> : Inactivation Kinetics, Color, and Sensory Evaluations. <i>Food and Bioprocess Technology</i> , 2013, 6, 1164-1174.	4.7	35
23	Optimization of supercritical carbon dioxide treatment for the inactivation of the natural microbial flora in cubed cooked ham. <i>International Journal of Food Microbiology</i> , 2013, 161, 189-196.	4.7	34
24	High pressure carbon dioxide combined with high power ultrasound pasteurization of fresh cut carrot. <i>Journal of Supercritical Fluids</i> , 2015, 105, 170-178.	3.2	34
25	Effects of Pasteurization on Volatile Compounds and Sensory Properties of Coconut (<i>Cocos nucifera</i>) Tj ETQq1 1 0.784314 rgBT /Overl 2015, 8, 1393-1404.	4.7	32
26	Impact of high-pressure carbon dioxide on polyphenoloxidase activity and stability of fresh apple juice. <i>LWT - Food Science and Technology</i> , 2017, 85, 363-371.	5.2	32
27	Inactivation of <i>Salmonella</i> , <i>Listeria monocytogenes</i> and <i>Escherichia coli</i> O157:H7 inoculated on coriander by freeze-drying and supercritical CO ₂ drying. <i>Innovative Food Science and Emerging Technologies</i> , 2018, 47, 180-186.	5.6	30
28	High-pressure CO ₂ inactivation and induced damage on <i>Saccharomyces cerevisiae</i> evaluated by flow cytometry. <i>Process Biochemistry</i> , 2010, 45, 647-654.	3.7	28
29	Dry acellular oesophageal matrix prepared by supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2016, 115, 33-41.	3.2	28
30	Supercritical carbon dioxide combined with high power ultrasound as innovate drying process for chicken breast. <i>Journal of Supercritical Fluids</i> , 2019, 147, 24-32.	3.2	28
31	Terminal Sterilization of BisGMA-TEGDMA Thermoset Materials and Their Bioactive Surfaces by Supercritical CO ₂ . <i>Biomacromolecules</i> , 2012, 13, 1152-1160.	5.4	26
32	High-Power Ultrasound Assisted High-Pressure Carbon Dioxide Pasteurization of Fresh-Cut Coconut: a Microbial and Physicochemical Study. <i>Food and Bioprocess Technology</i> , 2015, 8, 2368-2382.	4.7	25
33	Effect of high-pressure gases on phase behaviour of solid lipids. <i>Journal of Supercritical Fluids</i> , 2006, 38, 289-294.	3.2	24
34	Research Note: Microbial inactivation of raw chicken meat by supercritical carbon dioxide treatment alone and in combination with fresh culinary herbs. <i>Poultry Science</i> , 2020, 99, 536-545.	3.4	24
35	Stochastic Modeling of <i>S. cerevisiae</i> Inactivation by Supercritical CO ₂ . <i>Biotechnology Progress</i> , 2005, 21, 1461-1465.	2.6	22
36	Microbial inactivation efficiency of supercritical CO ₂ drying process. <i>Drying Technology</i> , 2018, 36, 2016-2021.	3.1	22

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37	Optimization of the supercritical CO ₂ pasteurization process for the preservation of high nutritional value of pomegranate juice. <i>Journal of Supercritical Fluids</i> , 2020, 164, 104914.	3.2	22
38	Intracellular pH measurement during high-pressure CO ₂ pasteurization evaluated by cell fluorescent staining. <i>Journal of Supercritical Fluids</i> , 2010, 53, 185-191.	3.2	20
39	Porous poly(D,L-lactide) foams with tunable structure and mechanical anisotropy prepared by supercritical carbon dioxide. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 99B, 338-349.	3.4	19
40	Comparison of quantitative PCR and flow cytometry as cellular viability methods to study bacterial membrane permeabilization following supercritical CO ₂ treatment. <i>Microbiology (United Kingdom)</i> , 2013, 159, 1056-1066.	1.8	19
41	Supercritical CO ₂ Induces Marked Changes in Membrane Phospholipids Composition in <i>Escherichia coli</i> K12. <i>Journal of Membrane Biology</i> , 2014, 247, 469-477.	2.1	19
42	Inactivation of mushroom polyphenoloxidase in model systems exposed to high-pressure carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2016, 107, 669-675.	3.2	18
43	Accurate flow cytometric monitoring of <i>Escherichia coli</i> subpopulations on solid food treated with high pressure carbon dioxide. <i>Journal of Applied Microbiology</i> , 2014, 117, 440-450.	3.1	17
44	A combined high pressure carbon dioxide and high power ultrasound treatment for the microbial stabilization of cooked ham. <i>Journal of Food Engineering</i> , 2016, 174, 47-55.	5.2	17
45	On-line color monitoring of solid foods during supercritical CO ₂ pasteurization. <i>Journal of Food Engineering</i> , 2012, 110, 80-85.	5.2	16
46	In Situ Raman Analysis of CO ₂ -Assisted Drying of Fruit-Slices. <i>Foods</i> , 2017, 6, 37.	4.3	16
47	Kinetic Analysis of Microorganisms Inactivation in Apple Juice by High Pressure Carbon Dioxide. <i>International Journal of Food Engineering</i> , 2006, 2, .	1.5	14
48	High pressure gases: Role of dynamic intracellular pH in pasteurization. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1211-1214.	3.3	14
49	Validation of a mathematical model for predicting high pressure carbon dioxide inactivation kinetics of <i>Escherichia coli</i> spiked on fresh cut carrot. <i>Journal of Supercritical Fluids</i> , 2014, 85, 17-23.	3.2	14
50	Non-thermal pasteurization of apples in syrup with dense phase carbon dioxide. <i>Journal of Food Engineering</i> , 2017, 207, 18-23.	5.2	14
51	Bacterial inactivation on solid food matrices through supercritical CO ₂ : A correlative study. <i>Journal of Food Engineering</i> , 2014, 120, 146-157.	5.2	12
52	Application of culture-independent methods for monitoring <i>Listeria monocytogenes</i> inactivation on food products. <i>Process Biochemistry</i> , 2015, 50, 188-193.	3.7	12
53	In situ Raman quantification of the dissolution kinetics of carbon dioxide in liquid solutions during a dense phase and ultrasound treatment for the inactivation of <i>Saccharomyces cerevisiae</i> . <i>Journal of Supercritical Fluids</i> , 2016, 111, 104-111.	3.2	12
54	Challenging chemical and quality changes of supercritical CO ₂ dried apple during long-term storage. <i>LWT - Food Science and Technology</i> , 2019, 110, 132-141.	5.2	12

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55	Supercritical CO ₂ for the drying and microbial inactivation of apple™s slices. <i>Drying Technology</i> , 2021, 39, 259-267.	3.1	12
56	Quality Attributes of Fresh-Cut Coconut after Supercritical Carbon Dioxide Pasteurization. <i>Journal of Chemistry</i> , 2013, 2013, 1-9.	1.9	11
57	A hybrid process for increasing the shelf life of elderberry juice. <i>Journal of Supercritical Fluids</i> , 2018, 140, 406-414.	3.2	11
58	A Study about the Effects of Supercritical Carbon Dioxide Drying on Apple Pieces. <i>International Journal of Electrical Energy</i> , 2018, , 186-190.	0.4	11
59	Mathematical Modeling of Yeast Inactivation of Freshly Squeezed Apple Juice under High-Pressure Carbon Dioxide. <i>Critical Reviews in Food Science and Nutrition</i> , 2010, 51, 91-97.	10.3	10
60	Partial permeabilisation and depolarization of Salmonella enterica Typhimurium cells after treatment with pulsed electric fields and high pressure carbon dioxide. <i>Process Biochemistry</i> , 2014, 49, 2055-2062.	3.7	10
61	Supercritical CO ₂ Drying of Red Bell Pepper. <i>Food and Bioprocess Technology</i> , 2020, 13, 753-763.	4.7	10
62	Yeast Inactivation in Fresh Apple Juice by High Pressure Nitrous Oxide. <i>International Journal of Food Engineering</i> , 2007, 3, .	1.5	9
63	Pressure-induced pH changes in aqueous solutions – On-line measurement and semi-empirical modelling approach. <i>Journal of Supercritical Fluids</i> , 2011, 56, 6-13.	3.2	9
64	High pressure carbon dioxide on pork raw meat: Inactivation of mesophilic bacteria and effects on colour properties. <i>Journal of Food Engineering</i> , 2015, 156, 55-58.	5.2	8
65	In situ Raman-analysis of supercritical carbon dioxide drying applied to acellular esophageal matrix. <i>Journal of Supercritical Fluids</i> , 2017, 128, 194-199.	3.2	8
66	Real time intracellular pH dynamics in Listeria innocua under CO ₂ and N ₂ O pressure. <i>Journal of Supercritical Fluids</i> , 2011, 58, 385-390.	3.2	7
67	Milk pasteurization at low temperature under N ₂ O pressure. <i>Journal of Food Engineering</i> , 2011, 105, 193-195.	5.2	7
68	Preservation over time of dried acellular esophageal matrix. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 065021.	1.2	7
69	Microbial inactivation and drying of strawberry slices by supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2022, 180, 105430.	3.2	7
70	Effect of dense-phase CO ₂ on polyphenoloxidase in model solutions. <i>International Journal of Food Science and Technology</i> , 2014, 49, 1238-1241.	2.7	6
71	Effect of CO ₂ Preservation Treatments on the Sensory Quality of Pomegranate Juice. <i>Molecules</i> , 2020, 25, 5598.	3.8	5
72	Treating micro-organisms with high pressure. <i>Industrial Chemistry Library</i> , 2001, 9, 626-640.	0.1	3

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73	Supercritical Fluid Pasteurization and Food Safety. RSC Green Chemistry, 2018, , 153-195.	0.1	3
74	Inactivation of foodborne pathogens on leek and alfalfa seeds with supercritical carbon dioxide. Journal of Supercritical Fluids, 2022, 180, 105433.	3.2	3
75	Optimization of the Appearance Quality in CO2 Processed Ready-to-Eat Carrots through Image Analysis. Foods, 2021, 10, 2999.	4.3	3
76	High-Pressure Processing of Foods toward Their Industrialization and Commercialization: An Up-to-Date Overview. Functional Foods & Nutraceuticals Series, 2015, , 427-454.	0.1	2