

Jan Van Impe

List of Publications by Year in descending order

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412
papers

9,461
citations

50276

46
h-index

69250

77
g-index

417
all docs

417
docs citations

417
times ranked

8667
citing authors

#	ARTICLE	IF	CITATIONS
1	Anaerobic digestion in global bio-energy production: Potential and research challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4295-4301.	16.4	685
2	Influence of low temperature thermal pre-treatment on sludge solubilisation, heavy metal release and anaerobic digestion. <i>Bioresource Technology</i> , 2010, 101, 5743-5748.	9.6	346
3	Peracetic acid oxidation as an alternative pre-treatment for the anaerobic digestion of waste activated sludge. <i>Bioresource Technology</i> , 2011, 102, 4124-4130.	9.6	160
4	Concentration of carbon dioxide in the water-phase as a parameter to model the effect of a modified atmosphere on microorganisms. <i>International Journal of Food Microbiology</i> , 1998, 43, 105-113.	4.7	157
5	Mathematical modelling of anaerobic digestion of biomass and waste: Power and limitations. <i>Progress in Energy and Combustion Science</i> , 2013, 39, 383-402.	31.2	152
6	Influence of microwave pre-treatment on sludge solubilization and pilot scale semi-continuous anaerobic digestion. <i>Bioresource Technology</i> , 2013, 128, 598-603.	9.6	143
7	Optimal adaptive control of (bio)chemical reactors: past, present and future. <i>Journal of Process Control</i> , 2004, 14, 795-805.	3.3	138
8	Perspectives from CO+RE: How COVID-19 changed our food systems and food security paradigms. <i>Current Research in Food Science</i> , 2020, 3, 166-172.	5.8	134
9	Study of the optimal control problem formulation for modulating air-to-water heat pumps connected to a residential floor heating system. <i>Energy and Buildings</i> , 2012, 45, 43-53.	6.7	122
10	Growth of <i>Listeria monocytogenes</i> in modified atmosphere packed cooked meat products: a predictive model. <i>Food Microbiology</i> , 2001, 18, 53-66.	4.2	118
11	Pulsed white light in combination with UV-C and heat to reduce storage rot of strawberry. <i>Postharvest Biology and Technology</i> , 2003, 28, 455-461.	6.0	113
12	Nonlinear and Adaptive Control in Biotechnology: A Tutorial. <i>European Journal of Control</i> , 1995, 1, 37-53.	2.6	105
13	Improving microbiological safety and quality characteristics of wheat and barley by high voltage atmospheric cold plasma closed processing. <i>Food Research International</i> , 2018, 106, 509-521.	6.2	104
14	Fast Pareto set generation for nonlinear optimal control problems with multiple objectives. <i>Structural and Multidisciplinary Optimization</i> , 2010, 42, 591-603.	3.5	99
15	Effect of dissolved carbon dioxide and temperature on the growth of <i>Lactobacillus sake</i> in modified atmospheres. <i>International Journal of Food Microbiology</i> , 1998, 41, 231-238.	4.7	98
16	Growth and indole-3-acetic acid biosynthesis of <i>Azospirillum brasilense</i> Sp245 is environmentally controlled. <i>FEMS Microbiology Letters</i> , 2005, 246, 125-132.	1.8	98
17	State of the art of nonthermal and thermal processing for inactivation of micro-organisms. <i>Journal of Applied Microbiology</i> , 2018, 125, 16-35.	3.1	98
18	Monte Carlo analysis as a tool to incorporate variation on experimental data in predictive microbiology. <i>Food Microbiology</i> , 2003, 20, 285-295.	4.2	93

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19	Recombinant protein production and streptomycetes. <i>Journal of Biotechnology</i> , 2012, 158, 159-167.	3.8	93
20	A comprehensive physico-chemical characterization of superhydrophilic loose nanofiltration membranes. <i>Journal of Membrane Science</i> , 2016, 501, 1-14.	8.2	93
21	Isolation and screening of bacterial isolates from wastewater treatment plants to decolorize azo dyes. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 448-456.	2.2	93
22	Robust multi-objective optimal control of uncertain (bio)chemical processes. <i>Chemical Engineering Science</i> , 2011, 66, 4670-4682.	3.8	83
23	Analysis of smearing-out in contribution plot based fault isolation for Statistical Process Control. <i>Chemical Engineering Science</i> , 2013, 104, 285-293.	3.8	83
24	Linearization of the activated sludge model ASM1 for fast and reliable predictions. <i>Water Research</i> , 2003, 37, 1831-1851.	11.3	77
25	Efficient deterministic multiple objective optimal control of (bio)chemical processes. <i>Chemical Engineering Science</i> , 2009, 64, 2527-2538.	3.8	73
26	Protein secretion biotechnology in Gram-positive bacteria with special emphasis on <i>Streptomyces lividans</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1750-1761.	4.1	73
27	Microbial dynamics versus mathematical model dynamics: The case of microbial heat resistance induction. <i>Innovative Food Science and Emerging Technologies</i> , 2006, 7, 80-87.	5.6	70
28	Transcriptional Analysis of the <i>Azospirillum brasilense</i> Indole-3-Pyruvate Decarboxylase Gene and Identification of a cis-Acting Sequence Involved in Auxin Responsive Expression. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 311-323.	2.6	67
29	Optimal experiment design for dynamic bioprocesses: A multi-objective approach. <i>Chemical Engineering Science</i> , 2012, 78, 82-97.	3.8	65
30	Robust optimization of nonlinear dynamic systems with application to a jacketed tubular reactor. <i>Journal of Process Control</i> , 2012, 22, 1152-1160.	3.3	63
31	Practical Identification of Unstructured Growth Kinetics by Application of Optimal Experimental Design. <i>Biotechnology Progress</i> , 1997, 13, 524-531.	2.6	62
32	On the design of optimal dynamic experiments for parameter estimation of a Ratkowsky-type growth kinetics at suboptimal temperatures. <i>International Journal of Food Microbiology</i> , 2000, 54, 27-38.	4.7	62
33	Computation of Optimal Identification Experiments for Nonlinear Dynamic Process Models: a Stochastic Global Optimization Approach. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 2425-2430.	3.7	62
34	Optimal temperature input design for estimation of the Square Root model parameters: parameter accuracy and model validity restrictions. <i>International Journal of Food Microbiology</i> , 2002, 73, 145-157.	4.7	62
35	Introducing optimal experimental design in predictive modeling: A motivating example. <i>International Journal of Food Microbiology</i> , 1999, 51, 39-51.	4.7	60
36	Activated sludge characteristics affecting sludge filterability in municipal and industrial MBRs: Unraveling correlations using multi-component regression analysis. <i>Journal of Membrane Science</i> , 2011, 378, 330-338.	8.2	60

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37	Inactivation of naturally occurring microorganisms in liquid whole egg using high pressure carbon dioxide processing as an alternative to heat pasteurization. <i>Journal of Supercritical Fluids</i> , 2009, 51, 74-82.	3.2	58
38	Predictive Modeling of Mixed Microbial Populations in Food Products: Evaluation of Two-species Models. <i>Journal of Theoretical Biology</i> , 2000, 205, 53-72.	1.7	57
39	Determination of the efficacy of ultrasound combined with essential oils on the decontamination of Salmonella inoculated lettuce leaves. <i>LWT - Food Science and Technology</i> , 2016, 73, 80-87.	5.2	57
40	Tuning of NMPC controllers via multi-objective optimisation. <i>Computers and Chemical Engineering</i> , 2014, 61, 38-50.	3.8	55
41	Predictive microbiology in a dynamic environment: a system theory approach. <i>International Journal of Food Microbiology</i> , 1995, 25, 227-249.	4.7	53
42	Optimal temperature control of a steady-state exothermic plug-flow reactor. <i>AIChE Journal</i> , 2002, 48, 279-286.	3.6	53
43	Multi-objective optimal control of chemical processes using ACADO toolkit. <i>Computers and Chemical Engineering</i> , 2012, 37, 191-199.	3.8	50
44	Approximate robust optimization of nonlinear systems under parametric uncertainty and process noise. <i>Journal of Process Control</i> , 2015, 33, 140-154.	3.3	50
45	Kinetic modeling of firmness breakdown in Braeburn™ apples stored under different controlled atmosphere conditions. <i>Postharvest Biology and Technology</i> , 2012, 67, 68-74.	6.0	48
46	Kinetics for Isobaric-Isothermal Inactivation of Bacillus subtilis α -Amylase. <i>Biotechnology Progress</i> , 1997, 13, 532-538.	2.6	47
47	Bioproduction of the Recombinant Sweet Protein Thaumatin: Current State of the Art and Perspectives. <i>Frontiers in Microbiology</i> , 2019, 10, 695.	3.5	47
48	Field performance assessment of onsite individual wastewater treatment systems. <i>Water Science and Technology</i> , 2008, 58, 1-6.	2.5	46
49	Decolorization of reactive azo dyes using a sequential chemical and activated sludge treatment. <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 668-673.	2.2	46
50	Application of tailor-made membranes in a multi-stage process for the purification of sweeteners from Stevia rebaudiana. <i>Journal of Food Engineering</i> , 2011, 103, 285-293.	5.2	45
51	Towards Online Model Predictive Control on a Programmable Logic Controller: Practical Considerations. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-20.	1.1	45
52	Effect of cell immobilization on heat-induced sublethal injury of Escherichia coli, Salmonella Typhimurium and Listeria innocua. <i>Food Microbiology</i> , 2013, 36, 355-364.	4.2	45
53	An interactive decision-support system for multi-objective optimization of nonlinear dynamic processes with uncertainty. <i>Expert Systems With Applications</i> , 2015, 42, 7710-7731.	7.6	45
54	Assessing the composition of microbial communities in textile wastewater treatment plants in comparison with municipal wastewater treatment plants. <i>MicrobiologyOpen</i> , 2017, 6, e00413.	3.0	45

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55	Occurrence, distribution and contamination levels of heat-resistant moulds throughout the processing of pasteurized high-acid fruit products. <i>International Journal of Food Microbiology</i> , 2018, 281, 72-81.	4.7	45
56	Quantitative description of <i>Listeria monocytogenes</i> inactivation kinetics with temperature and water activity as the influencing factors; model prediction and methodological validation on dynamic data. <i>Journal of Food Engineering</i> , 2006, 76, 79-88.	5.2	43
57	Growth/no growth models describing the influence of pH, lactic and acetic acid on lactic acid bacteria developed to determine the stability of acidified sauces. <i>International Journal of Food Microbiology</i> , 2007, 119, 258-269.	4.7	43
58	Modeling Biowaste Biorefineries: A Review. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	3.9	43
59	Dynamic optimization of biological networks under parametric uncertainty. <i>BMC Systems Biology</i> , 2016, 10, 86.	3.0	42
60	Influence of a gel microstructure as modified by gelatin concentration on <i>Listeria innocua</i> growth. <i>Innovative Food Science and Emerging Technologies</i> , 2006, 7, 124-131.	5.6	41
61	Decontamination of alfalfa and mung bean sprouts by ultrasound and aqueous chlorine dioxide. <i>LWT - Food Science and Technology</i> , 2017, 78, 90-96.	5.2	41
62	Inactivation of Single Strains of <i>Listeria monocytogenes</i> and <i>Salmonella Typhimurium</i> Planktonic Cells Biofilms With Plasma Activated Liquids. <i>Frontiers in Microbiology</i> , 2019, 10, 1539.	3.5	41
63	Amino acid uptake profiling of wild type and recombinant <i>Streptomyces lividans</i> TK24 batch fermentations. <i>Journal of Biotechnology</i> , 2011, 152, 132-143.	3.8	40
64	Genome-scale metabolic flux analysis of <i>Streptomyces lividans</i> growing on a complex medium. <i>Journal of Biotechnology</i> , 2012, 161, 1-13.	3.8	40
65	Robust multi-objective dynamic optimization of chemical processes using the Sigma Point method. <i>Chemical Engineering Science</i> , 2016, 140, 201-216.	3.8	40
66	The <i>ntrB</i> and <i>ntrC</i> Genes Are Involved in the Regulation of Poly-3-Hydroxybutyrate Biosynthesis by Ammonia in <i>Azospirillum brasilense</i> Sp7. <i>Applied and Environmental Microbiology</i> , 2000, 66, 113-117.	3.1	38
67	Parameter Identification and Modeling of the Biochemical Methane Potential of Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2011, 45, 4173-4178.	10.0	38
68	Dynamic model-based fault diagnosis for (bio)chemical batch processes. <i>Computers and Chemical Engineering</i> , 2012, 40, 12-21.	3.8	38
69	Online model predictive control of industrial processes using low level control hardware: A pilot-scale distillation column case study. <i>Control Engineering Practice</i> , 2014, 28, 34-48.	5.5	38
70	Influence of plasma characteristics on the efficacy of Cold Atmospheric Plasma (CAP) for inactivation of <i>Listeria monocytogenes</i> and <i>Salmonella Typhimurium</i> biofilms. <i>Innovative Food Science and Emerging Technologies</i> , 2019, 52, 376-386.	5.6	38
71	Antimicrobial efficacy of cold atmospheric plasma for different intrinsic and extrinsic parameters. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700048.	3.0	37
72	Dynamic modeling of filamentous bulking in lab-scale activated sludge processes. <i>Journal of Process Control</i> , 2006, 16, 313-319.	3.3	36

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73	Predictive modelling and validation of <i>Pseudomonas fluorescens</i> growth at superatmospheric oxygen and carbon dioxide concentrations. <i>Food Microbiology</i> , 2005, 22, 149-158.	4.2	35
74	Optimal design of an autothermal membrane reactor coupling the dehydrogenation of ethylbenzene to styrene with the hydrogenation of nitrobenzene to aniline. <i>Chemical Engineering Science</i> , 2010, 65, 3113-3127.	3.8	35
75	Design and Test of a Low-Cost RGB Sensor for Online Measurement of Microalgae Concentration within a Photo-Bioreactor. <i>Sensors</i> , 2015, 15, 4766-4780.	3.8	35
76	Feedback Stabilization of Fed-Batch Bioreactors: Non-Monotonic Growth Kinetics. <i>Biotechnology Progress</i> , 2002, 18, 1116-1125.	2.6	34
77	Towards flexible management of postharvest variation in fruit firmness of three apple cultivars. <i>Postharvest Biology and Technology</i> , 2013, 85, 18-29.	6.0	34
78	Analysis and practical implementation of a model for combined growth and metabolite production of lactic acid bacteria. <i>International Journal of Food Microbiology</i> , 2002, 73, 239-250.	4.7	33
79	Concepts and Tools for Predictive Modeling of Microbial Dynamics. <i>Journal of Food Protection</i> , 2004, 67, 2041-2052.	1.7	33
80	Tuning of Predictive Controllers for Drinking Water Networked Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 14507-14512.	0.4	33
81	Efficient multiple objective optimal control of dynamic systems with integer controls. <i>Journal of Process Control</i> , 2010, 20, 810-822.	3.3	32
82	Effect of chyme viscosity and nutrient feedback mechanism on gastric emptying. <i>Chemical Engineering Science</i> , 2017, 171, 318-330.	3.8	32
83	Predictive food microbiology: A probabilistic approach. <i>Mathematics and Computers in Simulation</i> , 1996, 42, 287-292.	4.4	31
84	A model for lactic acid-induced inhibition of <i>Yersinia enterocolitica</i> in mono- and coculture with <i>Lactobacillus sakei</i> . <i>Food Microbiology</i> , 2003, 20, 701-713.	4.2	31
85	Sensitivity analysis of microbial growth parameter distributions with respect to data quality and quantity by using Monte Carlo analysis. <i>Mathematics and Computers in Simulation</i> , 2004, 65, 231-243.	4.4	31
86	Modeling the effect of pH, water activity, and ethanol concentration on biofilm formation of <i>Staphylococcus aureus</i> . <i>Food Microbiology</i> , 2018, 76, 287-295.	4.2	31
87	Optimal experimental design for practical identification of unstructured growth models. <i>Mathematics and Computers in Simulation</i> , 1998, 46, 621-629.	4.4	30
88	Modeling the competition between floc-forming and filamentous bacteria in activated sludge waste water treatment systems. A prototype mathematical model based on kinetic selection and filamentous backbone theory. <i>Water Research</i> , 2000, 34, 2535-2541.	11.3	30
89	Model based process design of the combined high pressure and mild heat treatment ensuring safety and quality of a carrot simulant system. <i>Journal of Food Engineering</i> , 2007, 78, 1010-1021.	5.2	30
90	Robustifying optimal experiment design for nonlinear, dynamic (bio)chemical systems. <i>Computers and Chemical Engineering</i> , 2014, 71, 415-425.	3.8	30

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91	Influence of incubation conditions on the formation of model biofilms by <i>Listeria monocytogenes</i> and <i>Salmonella</i> Typhimurium on abiotic surfaces. <i>Journal of Applied Microbiology</i> , 2018, 125, 1890-1900.	3.1	30
92	Model-based temperature control in ovens. <i>Journal of Food Engineering</i> , 1999, 39, 47-58.	5.2	29
93	Novel insights for multi-objective optimisation in engineering using Normal Boundary Intersection and (Enhanced) Normalised Normal Constraint. <i>Structural and Multidisciplinary Optimization</i> , 2012, 45, 417-431.	3.5	29
94	An extensive reference dataset for fault detection and identification in batch processes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 148, 20-31.	3.5	29
95	Influence of food intrinsic complexity on <i>Listeria monocytogenes</i> growth in/on vacuum-packed model systems at suboptimal temperatures. <i>International Journal of Food Microbiology</i> , 2016, 235, 17-27.	4.7	29
96	Optimal control theory: A generic tool for identification and control of (bio-)chemical reactors. <i>Annual Reviews in Control</i> , 2002, 26, 57-73.	7.9	28
97	Effects of ultrasonic pre-treatment on sludge characteristics and anaerobic digestion. <i>Water Science and Technology</i> , 2012, 66, 2284-2290.	2.5	28
98	A Combined Electromagnetic and Heat Transfer Model for Heating of Foods in Microwave Combination Ovens. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2002, 37, 97-111.	0.8	27
99	Optimization of the temperature sensor position in a hot wire probe set up for estimation of the thermal properties of foods using optimal experimental design. <i>Journal of Food Engineering</i> , 2003, 57, 103-110.	5.2	27
100	Performance of a Growth-“No Growth Model for <i>Listeria monocytogenes</i> Developed for Mayonnaise-Based Salads: Influence of Strain Variability, Food Matrix, Inoculation Level, and Presence of Sorbic and Benzoic Acid. <i>Journal of Food Protection</i> , 2007, 70, 2118-2126.	1.7	27
101	Influence of food intrinsic factors on the inactivation efficacy of cold atmospheric plasma: Impact of osmotic stress, suboptimal pH and food structure. <i>Innovative Food Science and Emerging Technologies</i> , 2016, 38, 393-406.	5.6	27
102	Sensitivity function-based model reduction: A bacterial gene expression case study. <i>Biotechnology and Bioengineering</i> , 2002, 80, 195-200.	3.3	26
103	Assessing the optimal experiment setup for first order kinetic studies by Monte Carlo analysis. <i>Food Control</i> , 2005, 16, 873-882.	5.5	26
104	Does a change in reactor loading rate affect activated sludge bioflocculation?. <i>Process Biochemistry</i> , 2012, 47, 2227-2233.	3.7	26
105	Multi-objective optimal control of an air-to-water heat pump for residential heating. <i>Building Simulation</i> , 2012, 5, 281-291.	5.6	26
106	A modified unstructured mathematical model for the penicillin G fed-batch fermentation. <i>Biotechnology Letters</i> , 1991, 13, 489-494.	2.2	25
107	Derivation of generic optimal reference temperature profiles for steady-state exothermic jacketed tubular reactors. <i>Journal of Process Control</i> , 2008, 18, 92-104.	3.3	25
108	Using a Shear Test-Based Lab Protocol to Map the Sticky Phase of Activated Sludge. <i>Environmental Engineering Science</i> , 2011, 28, 81-85.	1.6	25

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109	Hybrid Derivative Dynamic Time Warping for Online Industrial Batch-End Quality Estimation. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6071-6084.	3.7	25
110	Optimal experiment design under process noise using Riccati differential equations. <i>Journal of Process Control</i> , 2013, 23, 613-629.	3.3	25
111	Dual-Species Model Biofilm Consisting of <i>Listeria monocytogenes</i> and <i>Salmonella Typhimurium</i> : Development and Inactivation With Cold Atmospheric Plasma (CAP). <i>Frontiers in Microbiology</i> , 2019, 10, 2524.	3.5	25
112	Combined Effect of Cold Atmospheric Plasma and Hydrogen Peroxide Treatment on Mature <i>Listeria monocytogenes</i> and <i>Salmonella Typhimurium</i> Biofilms. <i>Frontiers in Microbiology</i> , 2019, 10, 2674.	3.5	25
113	The (potential) impact of seasonality and climate change on the physicochemical and microbial properties of dairy waste and its management. <i>Trends in Food Science and Technology</i> , 2021, 116, 1-10.	15.1	25
114	Effect of Immobilization and Salt Concentration on the Growth Dynamics of <i>Escherichia coli</i> K12 and <i>Salmonella Typhimurium</i> . <i>Journal of Food Science</i> , 2013, 78, M567-74.	3.1	24
115	The effect of colony formation on the heat inactivation dynamics of <i>Escherichia coli</i> K12 and <i>Salmonella typhimurium</i> . <i>Food Research International</i> , 2013, 54, 1746-1752.	6.2	24
116	Resistance of <i>L. monocytogenes</i> and <i>S. Typhimurium</i> towards Cold Atmospheric Plasma as Function of Biofilm Age. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2702.	2.5	24
117	Multi-objective optimal control of dynamic bioprocesses using ACADO Toolkit. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 151-164.	3.4	23
118	Effect of cell immobilization on the growth dynamics of <i>Salmonella Typhimurium</i> and <i>Escherichia coli</i> at suboptimal temperatures. <i>International Journal of Food Microbiology</i> , 2015, 208, 75-83.	4.7	23
119	Introducing a novel interaction model structure for the combined effect of temperature and pH on the microbial growth rate. <i>International Journal of Food Microbiology</i> , 2017, 240, 85-96.	4.7	23
120	Modelling the unexpected effect of acetic and lactic acid in combination with pH and <i>a_w</i> on the growth/no growth interface of <i>Zygosaccharomyces bailii</i> . <i>International Journal of Food Microbiology</i> , 2008, 124, 79-90.	4.7	22
121	Effect of food microstructure on growth dynamics of <i>Listeria monocytogenes</i> in fish-based model systems. <i>International Journal of Food Microbiology</i> , 2018, 283, 7-13.	4.7	22
122	A tutorial on uncertainty propagation techniques for predictive microbiology models: A critical analysis of state-of-the-art techniques. <i>International Journal of Food Microbiology</i> , 2018, 282, 1-8.	4.7	22
123	Simulation of (bio)chemical processes with distributed parameters using Matlab®. <i>Chemical Engineering Journal</i> , 2009, 155, 603-616.	12.7	21
124	Assessment of activated sludge stability in lab-scale experiments. <i>Journal of Biotechnology</i> , 2009, 141, 147-154.	3.8	21
125	Assessing bacterial recovery and efficacy of cold atmospheric plasma treatments. <i>Food and Bioproducts Processing</i> , 2015, 96, 154-160.	3.6	21
126	A novel algorithm for fast representation of a Pareto front with adaptive resolution: Application to multi-objective optimization of a chemical reactor. <i>Computers and Chemical Engineering</i> , 2017, 106, 544-558.	3.8	21

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127	A Methodology for the Design of RTC Strategies for Combined Sewer Networks. <i>Water (Switzerland)</i> , 2018, 10, 1675.	2.7	21
128	Visible Light as an Antimicrobial Strategy for Inactivation of <i>Pseudomonas fluorescens</i> and <i>Staphylococcus epidermidis</i> Biofilms. <i>Antibiotics</i> , 2020, 9, 171.	3.7	21
129	Protective role of indigenous <i>Leuconostoc carnosum</i> against <i>Listeria monocytogenes</i> on vacuum packed Frankfurter sausages at suboptimal temperatures. <i>Food Research International</i> , 2014, 66, 197-206.	6.2	20
130	Heterogeneous modeling of an autothermal membrane reactor coupling dehydrogenation of ethylbenzene to styrene with hydrogenation of nitrobenzene to aniline: Fickian diffusion model. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 77, 50-65.	3.6	20
131	Recent trends in non-invasive in situ techniques to monitor bacterial colonies in solid (model) food. <i>Frontiers in Microbiology</i> , 2015, 6, 148.	3.5	20
132	An economic objective for the optimal experiment design of nonlinear dynamic processes. <i>Automatica</i> , 2015, 51, 98-103.	5.0	20
133	Finding the optimal time resolution for batch-end quality prediction: MRQP – A framework for multi-resolution quality prediction. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 172, 150-158.	3.5	20
134	Effect of microstructure and initial cell conditions on thermal inactivation kinetics and sublethal injury of <i>Listeria monocytogenes</i> in fish-based food model systems. <i>Food Microbiology</i> , 2019, 84, 103267.	4.2	20
135	The impact of food model system structure on the inactivation of <i>Listeria innocua</i> by cold atmospheric plasma and nisin combined treatments. <i>International Journal of Food Microbiology</i> , 2021, 337, 108948.	4.7	20
136	The effect of ultrasound treatment in combination with nisin on the inactivation of <i>Listeria innocua</i> and <i>Escherichia coli</i> . <i>Ultrasonics Sonochemistry</i> , 2021, 79, 105776.	8.2	20
137	OPTIMAL CONTROL OF THE PENICILLIN G FED-BATCH FERMENTATION: AN ANALYSIS OF A MODIFIED UNSTRUCTURED MODEL. <i>Chemical Engineering Communications</i> , 1992, 117, 337-353.	2.6	19
138	Power and limitations of model based bioprocess optimization. <i>Mathematics and Computers in Simulation</i> , 1996, 42, 159-169.	4.4	19
139	Optimal design of dispersive tubular reactors at steady-state using optimal control theory. <i>Journal of Process Control</i> , 2009, 19, 1191-1198.	3.3	19
140	Toward a next generation of predictive models: A systems biology primer. <i>Food Control</i> , 2013, 29, 336-342.	5.5	19
141	Dynamic estimation of specific fluxes in metabolic networks using non-linear dynamic optimization. <i>BMC Systems Biology</i> , 2014, 8, 132.	3.0	19
142	Symmetric algorithmic differentiation based exact Hessian SQP method and software for Economic MPC. , 2014, , .		19
143	Optimal experiment design for nonlinear dynamic (bio)chemical systems using sequential semidefinite programming. <i>AIChE Journal</i> , 2014, 60, 1728-1739.	3.6	19
144	Food Microstructure and Fat Content Affect Growth Morphology, Growth Kinetics, and Preferred Phase for Cell Growth of <i>Listeria monocytogenes</i> in Fish-Based Model Systems. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	19

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145	Crystal Growth Kinetics of an Industrial Active Pharmaceutical Ingredient: Implications of Different Representations of Supersaturation and Simultaneous Growth Mechanisms. <i>Crystal Growth and Design</i> , 2021, 21, 5403-5420.	3.0	19
146	Predictive modelling of surface growth of lactic acid bacteria in vacuum-packed meat. <i>Food Microbiology</i> , 1993, 10, 229-238.	4.2	18
147	Optimal control of the penicillin G fed-batch fermentation: An analysis of the model of heijnen et al. <i>Optimal Control Applications and Methods</i> , 1994, 15, 13-34.	2.1	18
148	Optimal heating strategies for a convection oven. <i>Journal of Food Engineering</i> , 2001, 48, 335-344.	5.2	18
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