MÃ-riam R GarcÃ-a

List of Publications by Year
in descending order

50 papers	595 citations	566801 15 h-index	676716 22 g-index
57 all docs	57 docs citations	57 times ranked	605 citing authors

#	Article	IF	Citations
1	A robust multi-model predictive controller for distributed parameter systems. Journal of Process Control, 2012, 22, 60-71.	1.7	45
2	Smart sensor to predict retail fresh fish quality under ice storage. Journal of Food Engineering, 2017, 197, 87-97.	2.7	42
3	Optimal Field Reconstruction of Distributed Process Systems from Partial Measurements. Industrial & Engineering Chemistry Research, 2007, 46, 530-539.	1.8	36
4	Quality and shelf-life prediction for retail fresh hake (Merluccius merluccius). International Journal of Food Microbiology, 2015, 208, 65-74.	2.1	33
5	Real time optimization for quality control of batch thermal sterilization of prepackaged foods. Food Control, 2013, 32, 392-403.	2.8	29
6	Neurofuzzy model based predictive control for thermal batch processes. Journal of Process Control, 2009, 19, 1566-1575.	1.7	28
7	Toward predictive food process models: A protocol for parameter estimation. Critical Reviews in Food Science and Nutrition, 2016, 58, 1-14.	5.4	27
8	Model-based design of smart active packaging systems with antimicrobial activity. Food Packaging and Shelf Life, 2020, 24, 100446.	3.3	27
9	Robust feed-back control of travelling waves in a class of reaction–diffusion distributed biological systems. Physica D: Nonlinear Phenomena, 2008, 237, 2353-2364.	1.3	26
10	Stochastic Individual-Based Modeling of Bacterial Growth and Division Using Flow Cytometry. Frontiers in Microbiology, 2017, 8, 2626.	1.5	25
11	Optimization of E. coli Inactivation by Benzalkonium Chloride Reveals the Importance of Quantifying the Inoculum Effect on Chemical Disinfection. Frontiers in Microbiology, 2018, 9, 1259.	1.5	23
12	Exponential observers for distributed tubular (bio)reactors. AICHE Journal, 2008, 54, 2943-2956.	1.8	19
13	Indirect adaptive linearizing control of a class of bioprocesses – Estimator tuning procedure. Journal of Process Control, 2008, 18, 27-35.	1.7	19
14	A Slow Axon Antidromic Blockade Hypothesis for Tremor Reduction via Deep Brain Stimulation. PLoS ONE, 2013, 8, e73456.	1.1	16
15	Robust feed-back control of distributed chemical reaction systems. Chemical Engineering Science, 2007, 62, 2941-2957.	1.9	15
16	A Critical Review of Disinfection Processes to Control SARS-CoV-2 Transmission in the Food Industry. Foods, 2021, 10, 283.	1.9	15
17	Hyaluronic acid of tailored molecular weight by enzymatic and acid depolymerization. International Journal of Biological Macromolecules, 2020, 145, 788-794.	3.6	14
18	Stabilization of inhomogeneous patterns in a diffusion–reaction system under structural and parametric uncertainties. Journal of Theoretical Biology, 2006, 241, 295-306.	0.8	12

#	ARTICLE	IF	CITATIONS
19	Development of a PBPK Model for Silver Accumulation in Chub Infected with Acanthocephalan Parasites. Environmental Science & Technology, 2018, 52, 12514-12525.	4.6	12
20	A model for the biochemical degradation of inosine monophosphate in hake (Merluccius merluccius). Journal of Food Engineering, 2017, 200, 95-101.	2.7	11
21	A mathematical model to predict early quality attributes in hake during storage at low temperature. Journal of Food Engineering, 2018, 222, 11-19.	2.7	11
22	Marine chondroitin sulfate of defined molecular weight by enzymatic depolymerization. Carbohydrate Polymers, 2020, 229, 115450.	5.1	11
23	A single compartment model of pacemaking in dissasociated Substantia nigra neurons. Journal of Computational Neuroscience, 2013, 35, 295-316.	0.6	10
24	Experimental Modeling and Identification of Cardiac Biomarkers Release in Acute Myocardial Infarction. IEEE Transactions on Control Systems Technology, 2020, 28, 183-195.	3.2	10
25	Spatial Quantification of Cytosolic Ca<inline-formula><tex-math>$^{2+}$</tex-math></inline-formula> Accumulation in Nonexcitable Cells:An Analytical Study. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 592-603.	1.9	9
26	Modelling chronic toxicokinetics and toxicodynamics of copper in mussels considering ionoregulatory homeostasis and oxidative stress. Environmental Pollution, 2021, 287, 117645.	3.7	8
27	Modeling and Optimization Techniques with Applications in Food Processes, Bio-processes and Bio-systems. SEMA SIMAI Springer Series, 2016, , 187-216.	0.4	6
28	Kinetics of Bacterial Adaptation, Growth, and Death at Didecyldimethylammonium Chloride sub-MIC Concentrations. Frontiers in Microbiology, 2022, 13, 758237.	1.5	6
29	Positive feedback in the Akt/mTOR pathway and its implications for growth signal progression in skeletal muscle cells: An analytical study. Journal of Theoretical Biology, 2012, 301, 15-27.	0.8	5
30	Mechanistic simulation of bioconcentration kinetics of waterborne Cd, Ag, Pd, and Pt in the zebra mussel Dreissena polymorpha. Chemosphere, 2020, 242, 124967.	4.2	5
31	The use of the soâ€called â€˜tubsâ€™ for transporting and storing fresh fishery products. EFSA Journal, 2020, 18, e06091.	0.9	5
32	Desarrollo De Una LibrerÃa De Componentes En Ecosimpro Para La OperaciÃ³n De Plantas De Procesamiento TÃ©rmico De Alimentos. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2008, 5, 51-65.	0.6	4
33	On-line estimation in a distributed parameter bioreactor: Application to the gluconic acid production. Computers and Chemical Engineering, 2011, 35, 84-91.	2.0	4
34	Deep brain stimulation may reduce tremor by preferential blockade of slower axons via antidromic activation. , 2011, , .		4
35	The use of the soâ€called â€˜superchillingâ€™ technique for the transport of fresh fishery products. EFSA Journal, 2021, 19, e06378.	0.9	4
36	Development of a toxicokinetic-toxicodynamic model simulating chronic copper toxicity to the Zebra mussel based on subcellular fractionation. Aquatic Toxicology, 2021, 241, 106015.	1.9	4

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37	Intelligent Control Based on Reinforcement Learning for Batch Thermal Sterilization of Canned Foods. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3568-3573.	0.4	3
38	Analytic computation of the integrated response in nonlinear reaction-diffusion systems. , 2012, , .		3
39	On systematic model reduction techniques for dynamic optimization and robust control of distributed process systems. Computer Aided Chemical Engineering, 2004, , 841-846.	0.3	2
40	Energetics of Ion Transport in Dopaminergic Substantia nigra Neurons. , 2012, , 81-109.		2
41	An efficient real-time dynamic optimization architecture for the control of non-isothermal tubular reactors. Computer Aided Chemical Engineering, 2005, , 1333-1338.	0.3	1
42	Real time optimisation for thermal processes. , 2009, , .		1
43	Reducing computational time via order reduction of a class of reaction-diffusion systems. , 2012, , .		1
44	Cumulative Signal Transmission in Nonlinear Reaction-Diffusion Networks. PLoS ONE, 2013, 8, e62834.	1.1	1
45	A Normalisation Strategy to Optimally Design Experiments in Computational Biology. Advances in Intelligent Systems and Computing, 2017, , 126-136.	0.5	1
46	State Reconstruction in Spatially Distributed BioProcess Systems using Reduced Order Models: Application to the Gluconic Acid Production.. , 0, , .		0
47	Comparativa entre modelos estocÃ¡sticos de crecimiento bacteriano a distintas escalas. , 2021, , 442-449.		0
48	A LIBRARY OF SOFTWARE COMPONENTS FOR THE OPERATION OF THERMAL FOOD PROCESSING PLANTS. Acta Horticulturae, 2008, , 141-146.	0.1	0
49	REAL TIME OPTIMIZATION OF THE THERMAL PROCESSING OF BIOPRODUCTS. Acta Horticulturae, 2008, , 155-162.	0.1	0
50	Computer-aided design of active packaging/food system for extended shelf life. , 0, , .		0