

# Chongyang Liu

## List of Publications by Year in descending order

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52  
papers

886  
citations

394421

19  
h-index

477307

29  
g-index

52  
all docs

52  
docs citations

52  
times ranked

400  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust multi-objective optimal switching control arising in 1,3-propanediol microbial fed-batch process. <i>Nonlinear Analysis: Hybrid Systems</i> , 2017, 25, 1-20.	3.5	63
2	Modelling and optimal control for nonlinear multistage dynamical system of microbial fed-batch culture. <i>Journal of Industrial and Management Optimization</i> , 2009, 5, 835-850.	1.3	56
3	Modelling and optimal control for a fed-batch fermentation process. <i>Applied Mathematical Modelling</i> , 2013, 37, 695-706.	4.2	53
4	Modelling and parameter identification for a nonlinear time-delay system in microbial batch fermentation. <i>Applied Mathematical Modelling</i> , 2013, 37, 6899-6908.	4.2	48
5	Dynamic Optimization for Switched Time-Delay Systems with State-Dependent Switching Conditions. <i>SIAM Journal on Control and Optimization</i> , 2018, 56, 3499-3523.	2.1	44
6	A computational method for solving time-delay optimal control problems with free terminal time. <i>Systems and Control Letters</i> , 2014, 72, 53-60.	2.3	35
7	Robust bi-objective optimal control of 1,3-propanediol microbial batch production process. <i>Journal of Process Control</i> , 2019, 78, 170-182.	3.3	35
8	Modelling and optimization for a switched system in microbial fed-batch culture. <i>Applied Mathematical Modelling</i> , 2011, 35, 3276-3284.	4.2	33
9	Optimal switching control of a fed-batch fermentation process. <i>Journal of Global Optimization</i> , 2012, 52, 265-280.	1.8	32
10	A Control Parameterization Method to Solve the Fractional-Order Optimal Control Problem. <i>Journal of Optimization Theory and Applications</i> , 2020, 187, 234-247.	1.5	32
11	Optimal control for nonlinear dynamical system of microbial fed-batch culture. <i>Journal of Computational and Applied Mathematics</i> , 2009, 232, 252-261.	2.0	26
12	Multi-objective optimization of nonlinear switched time-delay systems in fed-batch process. <i>Applied Mathematical Modelling</i> , 2016, 40, 10533-10548.	4.2	25
13	Switching Time and Parameter Optimization in Nonlinear Switched Systems with Multiple Time-Delays. <i>Journal of Optimization Theory and Applications</i> , 2014, 163, 957-988.	1.5	24
14	Sensitivity analysis and parameter identification for a nonlinear time-delay system in microbial fed-batch process. <i>Applied Mathematical Modelling</i> , 2014, 38, 1449-1463.	4.2	23
15	Robust parameter estimation for nonlinear multistage time-delay systems with noisy measurement data. <i>Applied Mathematical Modelling</i> , 2018, 53, 353-368.	4.2	23
16	Optimal control of switched systems with multiple time-delays and a cost on changing control. <i>Journal of Industrial and Management Optimization</i> , 2018, 14, 183-198.	1.3	22
17	Optimal switching control for microbial fed-batch culture. <i>Nonlinear Analysis: Hybrid Systems</i> , 2008, 2, 1168-1174.	3.5	21
18	Optimal parameter selection for nonlinear multistage systems with time-delays. <i>Computational Optimization and Applications</i> , 2014, 59, 285-306.	1.6	21

#	ARTICLE	IF	CITATIONS
19	Optimal Control Computation for Nonlinear Fractional Time-Delay Systems with State Inequality Constraints. <i>Journal of Optimization Theory and Applications</i> , 2021, 191, 83-117.	1.5	21
20	Distributionally robust parameter identification of a time-delay dynamical system with stochastic measurements. <i>Applied Mathematical Modelling</i> , 2019, 69, 685-695.	4.2	19
21	Numerical solution of free final time fractional optimal control problems. <i>Applied Mathematics and Computation</i> , 2021, 405, 126270.	2.2	19
22	Optimal state-delay control in nonlinear dynamic systems. <i>Automatica</i> , 2022, 135, 109981.	5.0	19
23	Modelling and optimal control of a time-delayed switched system in fed-batch process. <i>Journal of the Franklin Institute</i> , 2014, 351, 840-856.	3.4	18
24	Bi-objective dynamic optimization of a nonlinear time-delay system in microbial batch process. <i>Optimization Letters</i> , 2018, 12, 1249-1264.	1.6	18
25	Parameter identification and optimization algorithm in microbial continuous culture. <i>Applied Mathematical Modelling</i> , 2012, 36, 585-595.	4.2	17
26	Optimal Control of Switched Systems Arising in Fermentation Processes. <i>Springer Optimization and Its Applications</i> , 2014, .	0.9	15
27	Optimal control of a batch fermentation process with nonlinear time-delay and free terminal time and cost sensitivity constraint. <i>Journal of Process Control</i> , 2016, 44, 41-52.	3.3	15
28	Modeling and optimal control of a nonlinear dynamical system in microbial fed-batch fermentation. <i>Mathematical and Computer Modelling</i> , 2011, 53, 168-178.	2.0	11
29	Optimal control of switched autonomous systems in microbial fed-batch cultures. <i>International Journal of Computer Mathematics</i> , 2011, 88, 396-407.	1.8	11
30	Modelling and optimal state-delay control in microbial batch process. <i>Applied Mathematical Modelling</i> , 2021, 89, 792-801.	4.2	10
31	Optimal control of nonlinear fractional systems with multiple pantograph delays. <i>Applied Mathematics and Computation</i> , 2022, 425, 127094.	2.2	9
32	Optimal Control of Nonlinear Fractional-Order Systems with Multiple Time-Varying Delays. <i>Journal of Optimization Theory and Applications</i> , 2022, 193, 856-876.	1.5	8
33	Robust optimization for a nonlinear switched time-delay system with noisy output measurements using hybrid optimization algorithm. <i>Journal of the Franklin Institute</i> , 2019, 356, 9730-9762.	3.4	7
34	Robust optimization for nonlinear time-delay dynamical system of dha regulon with cost sensitivity constraint in batch culture. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 38, 140-171.	3.3	6
35	Robust parameter estimation for constrained time-delay systems with inexact measurements. <i>Journal of Industrial and Management Optimization</i> , 2021, 17, 317-337.	1.3	6
36	The uncoupled microbial fed-batch fermentation optimization based on state-dependent switched system. <i>International Journal of Biomathematics</i> , 2021, 14, 2150025.	2.9	6

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37	On necessary optimality conditions and exact penalization for a constrained fractional optimal control problem. <i>Optimal Control Applications and Methods</i> , 2022, 43, 1096-1108.	2.1	6
38	Distributionally robust $L_1$ -estimation in multiple linear regression. <i>Optimization Letters</i> , 2019, 13, 935-947.	1.6	5
39	Robust parameter identification of a nonlinear impulsive time-delay system in microbial fed-batch process. <i>Applied Mathematical Modelling</i> , 2022, 111, 160-175.	4.2	5
40	Multi-objective optimisation of nonlinear switched systems in uncoupled fed-batch fermentation. <i>International Journal of Systems Science</i> , 2020, 51, 1798-1813.	5.5	4
41	Time-delay optimal control of a fed-batch production involving multiple feeds. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2020, 13, 1697-1709.	1.1	3
42	Modelling and parameter identification for a two-stage fractional dynamical system in microbial batch process. <i>Nonlinear Analysis: Modelling and Control</i> , 0, 27, 1-18.	1.6	3
43	Optimization for Multiobjective Optimal Control Problem and Its Application in 3D Horizontal Wells. , 2006, , .		2
44	Modeling in microbial batch culture and its parameter identification. , 2009, , .		2
45	Nonlinear dynamical systems of fed-batch fermentation and their optimal control. <i>International Journal of Systems Science</i> , 2012, 43, 809-819.	5.5	2
46	Optimal control of a fractional smoking system. <i>Journal of Industrial and Management Optimization</i> , 2022, .	1.3	2
47	Optimal Control of Switched Time-Delay Systems. <i>Springer Optimization and Its Applications</i> , 2014, , 159-175.	0.9	1
48	On combining neighbouring extremals with control parameterization. , 2015, , .		0
49	Global behaviors analysis for tryptophan operon system with bounded noise. <i>Applied Mathematical Modelling</i> , 2018, 58, 33-46.	4.2	0
50	Robust time-delay estimation for nonlinear systems using inexact output. , 2018, , .		0
51	On Solving the Convex Semi-Infinite Minimax Problems via Superlinear ?? Incremental Bundle Technique with Partial Inexact Oracle. <i>Asia-Pacific Journal of Operational Research</i> , 0, , 2140015.	1.3	0
52	Optimal Parameter Selection of Multistage Time-Delay Systems. <i>Springer Optimization and Its Applications</i> , 2014, , 123-142.	0.9	0