Min-Sen Chiu

List of Publications by Year
in descending order

102 papers	2,749 citations	236612 25 h-index	182168 51 g-index
102 all docs	102 docs citations	102 times ranked	2048 citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous design of discrete-time inverse response predictor control systems. Computers and Chemical Engineering, 2022, 159, 107681.	2.0	0
2	VRFT-based predictor design for processes with inverse response. Journal of the Taiwan Institute of Chemical Engineers, 2021, 130, 104113-104113.	2.7	1
3	VRFT-based digital controller design using a generalized second-order reference model. Computers and Chemical Engineering, 2020, 142, 107049.	2.0	6
4	Hydrogen value chain and fuel cells within hybrid renewable energy systems: Advanced operation and control strategies. Applied Energy, 2019, 233-234, 321-337.	5.1	49
5	Mechanical Behavior of Nanowires with High-Order Surface Stress Effects. , 2018, , 157-177.		0
6	Dynamic R-parameter based integrated model predictive iterative learning control for batch processes. Journal of Process Control, 2017, 49, 26-35.	1.7	42
7	Integrated B2B–NMPC control strategy for batch/semibatch crystallization processes. AICHE Journal, 2017, 63, 5007-5018.	1.8	17
8	Monitoring pH-Shift Reactive Crystallization of L-Glutamic Acid Using Moving Window MPCA. Journal of Chemical Engineering of Japan, 2016, 49, 680-688.	0.3	6
9	An integrated model predictive control strategy for batch processes. , 2016, , .		3
10	Just-in-Time-Learning based Extended Prediction Self-Adaptive Control for batch processes. Journal of Process Control, 2016, 43, 1-9.	1.7	29
11	Correlation analysis based MIMO neuro-fuzzy Hammerstein model with noises. Journal of Process Control, 2016, 41, 76-91.	1.7	13
12	The identification of neuro-fuzzy based MIMO Hammerstein model with separable input signals. Neurocomputing, 2016, 174, 530-541.	3.5	19
13	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. Organic Process Research and Development, 2015, 19, 3-62.	1.3	329
14	Improved Operation of Concentration Control for Antisolvent Crystallization Processes. Organic Process Research and Development, 2015, 19, 178-188.	1.3	4
15	Modeling and Bayesian parameter estimation for semibatch pH–shift reactive crystallization of <scp>l</scp>–glutamic acid. AICHE Journal, 2014, 60, 2828-2838.	1.8	19
16	Direct design of PID controllers for stable processes with inverse response. , 2014, , .		0
17	A one-step tuning method for PID controllers with robustness specification using plant step-response data. Chemical Engineering Research and Design, 2014, 92, 545-558.	2.7	35
18	A mathematical framework of high-order surface stresses in three-dimensional configurations. Acta Mechanica, 2014, 225, 1043-1060.	1.1	2

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19	JITL-based concentration control for semi-batch pH-shift reactive crystallization of l-glutamic acid. Journal of Process Control, 2014, 24, 415-421.	1.7	14
20	Integrated Iterative Learning Control Strategy for Batch Processes. Communications in Computer and Information Science, 2014, , 419-427.	0.4	2
21	Identification of MIMO Neuro-fuzzy Hammerstein Model with Noises. Communications in Computer and Information Science, 2014, , 298-306.	0.4	0
22	Bending and resonance behavior of nanowires based on Timoshenko beam theory with high-order surface stress effects. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 54, 149-156.	1.3	26
23	Concentration Control for Semi-batch pH-shift Reactive Crystallization of L-glutamic Acid. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 228-233.	0.4	2
24	An Integrated Approach for C-control of Antisolvent Crystallization Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 762-767.	0.4	0
25	Pareto-optimal solutions based multi-objective particle swarm optimization control for batch processes. Neural Computing and Applications, 2012, 21, 1107-1116.	3.2	22
26	Adaptive decentralized PID controllers design using JITL modeling methodology. Journal of Process Control, 2012, 22, 1531-1542.	1.7	12
27	Integrated neuro-fuzzy model and dynamic R-parameter based quadratic criterion-iterative learning control for batch process. Neurocomputing, 2012, 98, 24-33.	3.5	30
28	Effects of high-order surface stress on buckling and resonance behavior of nanowires. Acta Mechanica, 2012, 223, 1473-1484.	1.1	22
29	Enhanced VRFT design of adaptive PID controller. Chemical Engineering Science, 2012, 76, 66-72.	1.9	20
30	A New Strategy of Locality Enhancement for Justin-Time Learning Method. Computer Aided Chemical Engineering, 2012, 31, 1662-1666.	0.3	5
31	PID Controller Design Directly from Plant Data. Industrial & Engineering Chemistry Research, 2011, 50, 1352-1359.	1.8	33
32	Effects of high-order surface stress on static bending behavior of nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 714-718.	1.3	27
33	Selected papers from PSE ASIA 2010. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 317-319.	0.8	0
34	Effects of higher-order interface stresses on the elastic states of two-dimensional composites. Mechanics of Materials, 2011, 43, 212-221.	1.7	25
35	Integrated batchâ€toâ€batch and nonlinear model predictive control for polymorphic transformation in pharmaceutical crystallization. AICHE Journal, 2011, 57, 1008-1019.	1.8	43
36	Higher-order surface stress effects on buckling of nanowires under uniaxial compression. Procedia Engineering, 2011, 10, 397-402.	1.2	15

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37	Adaptive IMC controller design using linear multiple models. Journal of the Taiwan Institute of Chemical Engineers, 2010, 41, 446-452.	2.7	4
38	A novel neuro-fuzzy model-based run-to-run control for batch processes with uncertainties. , 2009, , .		3
39	High-order simulation of polymorphic crystallization using weighted essentially nonoscillatory methods. AICHE Journal, 2009, 55, 122-131.	1.8	25
40	Nonlinear model predictive control for the polymorphic transformation of <scp>L</scp>-glutamic acid crystals. AICHE Journal, 2009, 55, 2631-2645.	1.8	48
41	Run-to-run product quality control of batch processes. Journal of Shanghai University, 2009, 13, 267-269.	0.1	3
42	Adaptive generalized predictive control based on JITL technique. Journal of Process Control, 2009, 19, 1067-1072.	1.7	41
43	Adaptive PID Controller Design for Nonlinear Systems. Industrial & Engineering Chemistry Research, 2009, 48, 4877-4883.	1.8	16
44	Robust Bayesian estimation of kinetics for the polymorphic transformation of <scp>L</scp>-glutamic acid crystals. AICHE Journal, 2008, 54, 3248-3259.	1.8	54
45	Self-tuning PID controllers based on the Lyapunov approach. Chemical Engineering Science, 2008, 63, 2732-2740.	1.9	27
46	Robust PID controller design for nonlinear processes using JITL technique. Chemical Engineering Science, 2008, 63, 5141-5148.	1.9	14
47	New results on VRFT design of PID controller. Chemical Engineering Research and Design, 2008, 86, 925-931.	2.7	44
48	Adaptive Single-Neuron Controller Design for Nonlinear Process Control. Journal of Chemical Engineering of Japan, 2008, 41, 785-795.	0.3	3
49	Adaptive IMC Design Using Multiple Models. , 2007, , .		0
50	Optimal Control of Polymorphic Transformation in Batch Pharmaceutical Crystallization. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	0
51	Robust optimal control of polymorphic transformation in batch crystallization. AICHE Journal, 2007, 53, 2643-2650.	1.8	45
52	Partitioned model-based IMC design using JITL modeling technique. Journal of Process Control, 2007, 17, 757-769.	1.7	19
53	Derivation of the generalized Young-Laplace equation of curved interfaces in nanoscaled solids. Journal of Applied Physics, 2006, 100, 074308.	1.1	317
54	Data-Based LQI Controller Design from Plant Data. Journal of Chemical Engineering of Japan, 2006, 39, 746-752.	0.3	0

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55	Run-to-run Temperature Control for Polymorphic Transformation in Pharmaceutical Crystallization with Uncertainties. , 2006, , .		0
56	DELAY FEEDBACK CONTROL FOR INTERACTION OF HOPF AND PERIOD DOUBLING BIFURCATIONS IN DISCRETE-TIME SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 101-112.	0.7	20
57	A run-to-run control strategy for polymorphic transformation in pharmaceutical crystallization. , 2006, , .		1
58	Data-based internal model controller design for a class of nonlinear systems. Computer Aided Chemical Engineering, 2005, 20, 1411-1416.	0.3	2
59	A noniterative neuro-fuzzy based identification method for Hammerstein processes. Journal of Process Control, 2005, 15, 749-761.	1.7	53
60	Nonlinear process monitoring using JITL-PCA. Chemometrics and Intelligent Laboratory Systems, 2005, 76, 1-13.	1.8	115
61	Iterative Identification of Neuro-Fuzzy-Based Hammerstein Model with Global Convergence. Industrial & Engineering Chemistry Research, 2005, 44, 1823-1831.	1.8	17
62	A new data-based methodology for nonlinear process modeling. Chemical Engineering Science, 2004, 59, 2801-2810.	1.9	260
63	Non-interacting control design for multivariable industrial processes. Journal of Process Control, 2003, 13, 253-265.	1.7	51
64	A multiple models based predictive control strategy applied in polymerization reactor control. Computer Aided Chemical Engineering, 2003, 15, 1147-1152.	0.3	0
65	Modeling and Control of a Nonlinear Process Based on the Extended Self-Organizing Map Network. Industrial & Engineering Chemistry Research, 2002, 41, 2941-2947.	1.8	1
66	Robust PID controller design via LMI approach. Journal of Process Control, 2002, 12, 3-13.	1.7	218
67	Decoupling internal model control for multivariable systems with multiple time delays. Chemical Engineering Science, 2002, 57, 115-124.	1.9	132
68	An Extended Self-Organizing Map Network for Modeling and Control of Pulse Jet Fabric Filters. Journal of the Air and Waste Management Association, 2001, 51, 1035-1042.	0.9	3
69	Modeling of nonlinear systems using extended self-organizing map. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 457-462.	0.4	0
70	Independent design of robust partially decentralized controllers. Journal of Process Control, 2001, 11, 419-428.	1.7	18
71	An improved on-line monitoring procedure for multiloop control systems. Chemical Engineering Journal, 2001, 83, 145-154.	6.6	3
72	A multiple-model approach to decentralized internal model control design. Chemical Engineering Science, 2001, 56, 6651-6660.	1.9	17

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73	Further Results on Expansion Design of Partially Decentralized Controllers: 2Ã—2 Plant Cases. Chemical Engineering Research and Design, 2001, 79, 89-96.	2.7	22
74	Further work on pulse-jet fabric filtration modeling. Powder Technology, 2001, 118, 79-89.	2.1	29
75	An extended self-organizing map with application to the modeling of pulse jet fabric filters. Computer Aided Chemical Engineering, 2001, , 333-338.	0.3	0
76	A Model for Pulse Jet Fabric Filters. Journal of the Air and Waste Management Association, 2000, 50, 600-612.	0.9	9
77	Internal model control design for transition control. AICHE Journal, 2000, 46, 309-320.	1.8	26
78	Multiple-Objective Based Model Predictive Control of Pulse Jet Fabric Filters. Chemical Engineering Research and Design, 2000, 78, 581-589.	2.7	9
79	On-Line Monitoring for Multiloop Control Systems Under Load Disturbance. Chemical Engineering Research and Design, 2000, 78, 605-611.	2.7	1
80	An Extended Self-Organizing Map for Nonlinear System Identification. Industrial & Engineering Chemistry Research, 2000, 39, 3778-3788.	1.8	6
81	A Comparative Study of Model-Based Control Techniques for Batch Crystallization Process.. Journal of Chemical Engineering of Japan, 1999, 32, 456-464.	0.3	13
82	An on-line monitoring procedure for 2Ã—2 and 3Ã—3 full multivariable control systems. Chemical Engineering Science, 1998, 53, 1277-1293.	1.9	3
83	Interaction Measure for the Selection of Partially Decentralized Control Structures. Industrial & Engineering Chemistry Research, 1998, 37, 4734-4739.	1.8	11
84	Dynamic Analysis of Decentralized 2 Ã— 2 Control Systems in Relation to Loop Interaction and Local Stability. Industrial & Engineering Chemistry Research, 1998, 37, 464-473.	1.8	5
85	A Fast Fourier Transform Approach for On-Line Monitoring of the Maximum Closed-Loop Log Modulus. Industrial & Engineering Chemistry Research, 1998, 37, 1045-1050.	1.8	8
86	SEQUENTIAL STABILIZATION OF DECENTRALIZED CONTROL SYSTEMS. Chemical Engineering Communications, 1998, 168, 187-206.	1.5	1
87	Decoupling internal model control for multivariable systems with multiple time delays. , 1998, , .		0
88	Relay-Based On-Line Monitoring Procedures for 2 Ã— 2 and 3 Ã— 3 Multiloop Control Systems. Industrial & Engineering Chemistry Research, 1997, 36, 2225-2230.	1.8	11
89	ROBUST DECENTRALIZED CONTROL OF NON-SQUARE SYSTEMS. Chemical Engineering Communications, 1997, 158, 157-180.	1.5	34
90	Robust decentralized controller design for unstable systems. Chemical Engineering Science, 1997, 52, 2299-2311.	1.9	8

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91	Fuzzy logic control of an unstable biological reactor. Chemical Engineering and Technology, 1997, 20, 414-418.	0.9	4
92	FFT-based monitoring procedure for intelligent control. Chemical Engineering Science, 1997, 52, 2823-2828.	1.9	0
93	On-line performance monitoring of two-inputs-two-outputs multiloop control systems. Computers and Chemical Engineering, 1996, 20, S829-S834.	2.0	3
94	A methodology for sequential design of robust decentralized control systems. Automatica, 1992, 28, 997-1001.	3.0	65
95	A new result on Relative Gain Array, Niederlinski Index and decentralized stability condition: 2 Ã— 2 plant cases. Automatica, 1991, 27, 419-421.	3.0	26
96	Parametrization of all stabilizing IMC controllers for unstable plants. International Journal of Control, 1990, 51, 329-340.	1.2	3
97	Parametrization of All Stabilizing Decentralized IMC Controllers and A Sequential Stabilization Procedure. , 1989, , .		0
98	Adaptive neuro-fuzzy identification method of Hammerstein model. , 0, , .		1
99	Adaptive controller design using just-in-time learning algorithm. , 0, , .		0
100	Adaptive Neuro-Fuzzy Control of Non-Affine Nonlinear Systems. , 0, , .		2
101	Data-Based Internal Model Controller Design for a Class of Nonlinear Systems. , 0, , .		2
102	Adaptive Feedback-Feedforward Control for a Class of Nonlinear Chemical Processes. , 0, , .		1