

# Min-Sen Chiu

## List of Publications by Year in descending order

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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	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. Organic Process Research and Development, 2015, 19, 3-62.	1.3	329
2	Derivation of the generalized Young-Laplace equation of curved interfaces in nanoscaled solids. Journal of Applied Physics, 2006, 100, 074308.	1.1	317
3	A new data-based methodology for nonlinear process modeling. Chemical Engineering Science, 2004, 59, 2801-2810.	1.9	260
4	Robust PID controller design via LMI approach. Journal of Process Control, 2002, 12, 3-13.	1.7	218
5	Decoupling internal model control for multivariable systems with multiple time delays. Chemical Engineering Science, 2002, 57, 115-124.	1.9	132
6	Nonlinear process monitoring using JITL-PCA. Chemometrics and Intelligent Laboratory Systems, 2005, 76, 1-13.	1.8	115
7	A methodology for sequential design of robust decentralized control systems. Automatica, 1992, 28, 997-1001.	3.0	65
8	Robust Bayesian estimation of kinetics for the polymorphic transformation of $\alpha$ -glutamic acid crystals. AIChE Journal, 2008, 54, 3248-3259.	1.8	54
9	A noniterative neuro-fuzzy based identification method for Hammerstein processes. Journal of Process Control, 2005, 15, 749-761.	1.7	53
10	Non-interacting control design for multivariable industrial processes. Journal of Process Control, 2003, 13, 253-265.	1.7	51
11	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
12	Nonlinear model predictive control for the polymorphic transformation of $\alpha$ -glutamic acid crystals. AIChE Journal, 2009, 55, 2631-2645.	1.8	48
13	Robust optimal control of polymorphic transformation in batch crystallization. AIChE Journal, 2007, 53, 2643-2650.	1.8	45
14	New results on VRFT design of PID controller. Chemical Engineering Research and Design, 2008, 86, 925-931.	2.7	44
15	Integrated batch-to-batch and nonlinear model predictive control for polymorphic transformation in pharmaceutical crystallization. AIChE Journal, 2011, 57, 1008-1019.	1.8	43
16	Dynamic R-parameter based integrated model predictive iterative learning control for batch processes. Journal of Process Control, 2017, 49, 26-35.	1.7	42
17	Adaptive generalized predictive control based on JITL technique. Journal of Process Control, 2009, 19, 1067-1072.	1.7	41
18	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

#	ARTICLE	IF	CITATIONS
19	ROBUST DECENTRALIZED CONTROL OF NON-SQUARE SYSTEMS. <i>Chemical Engineering Communications</i> , 1997, 158, 157-180.	1.5	34
20	PID Controller Design Directly from Plant Data. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 1352-1359.	1.8	33
21	Integrated neuro-fuzzy model and dynamic R-parameter based quadratic criterion-iterative learning control for batch process. <i>Neurocomputing</i> , 2012, 98, 24-33.	3.5	30
22	Further work on pulse-jet fabric filtration modeling. <i>Powder Technology</i> , 2001, 118, 79-89.	2.1	29
23	Just-in-Time-Learning based Extended Prediction Self-Adaptive Control for batch processes. <i>Journal of Process Control</i> , 2016, 43, 1-9.	1.7	29
24	Self-tuning PID controllers based on the Lyapunov approach. <i>Chemical Engineering Science</i> , 2008, 63, 2732-2740.	1.9	27
25	Effects of high-order surface stress on static bending behavior of nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 44, 714-718.	1.3	27
26	A new result on Relative Gain Array, Niederlinski Index and decentralized stability condition: 2 $\tilde{A}$ – 2 plant cases. <i>Automatica</i> , 1991, 27, 419-421.	3.0	26
27	Internal model control design for transition control. <i>AIChE Journal</i> , 2000, 46, 309-320.	1.8	26
28	Bending and resonance behavior of nanowires based on Timoshenko beam theory with high-order surface stress effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 54, 149-156.	1.3	26
29	High-order simulation of polymorphic crystallization using weighted essentially nonoscillatory methods. <i>AIChE Journal</i> , 2009, 55, 122-131.	1.8	25
30	Effects of higher-order interface stresses on the elastic states of two-dimensional composites. <i>Mechanics of Materials</i> , 2011, 43, 212-221.	1.7	25
31	Further Results on Expansion Design of Partially Decentralized Controllers: 2 $\tilde{A}$ –2 Plant Cases. <i>Chemical Engineering Research and Design</i> , 2001, 79, 89-96.	2.7	22
32	Pareto-optimal solutions based multi-objective particle swarm optimization control for batch processes. <i>Neural Computing and Applications</i> , 2012, 21, 1107-1116.	3.2	22
33	Effects of high-order surface stress on buckling and resonance behavior of nanowires. <i>Acta Mechanica</i> , 2012, 223, 1473-1484.	1.1	22
34	DELAY FEEDBACK CONTROL FOR INTERACTION OF HOPF AND PERIOD DOUBLING BIFURCATIONS IN DISCRETE-TIME SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006, 16, 101-112.	0.7	20
35	Enhanced VRFT design of adaptive PID controller. <i>Chemical Engineering Science</i> , 2012, 76, 66-72.	1.9	20
36	Partitioned model-based IMC design using JITL modeling technique. <i>Journal of Process Control</i> , 2007, 17, 757-769.	1.7	19

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37	Modeling and Bayesian parameter estimation for semibatch pH-shift reactive crystallization of l-glutamic acid. <i>AIChE Journal</i> , 2014, 60, 2828-2838.	1.8	19
38	The identification of neuro-fuzzy based MIMO Hammerstein model with separable input signals. <i>Neurocomputing</i> , 2016, 174, 530-541.	3.5	19
39	Independent design of robust partially decentralized controllers. <i>Journal of Process Control</i> , 2001, 11, 419-428.	1.7	18
40	A multiple-model approach to decentralized internal model control design. <i>Chemical Engineering Science</i> , 2001, 56, 6651-6660.	1.9	17
41	Iterative Identification of Neuro-Fuzzy-Based Hammerstein Model with Global Convergence. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 1823-1831.	1.8	17
42	Integrated B2B-MPC control strategy for batch/semibatch crystallization processes. <i>AIChE Journal</i> , 2017, 63, 5007-5018.	1.8	17
43	Adaptive PID Controller Design for Nonlinear Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 4877-4883.	1.8	16
44	Higher-order surface stress effects on buckling of nanowires under uniaxial compression. <i>Procedia Engineering</i> , 2011, 10, 397-402.	1.2	15
45	Robust PID controller design for nonlinear processes using JITL technique. <i>Chemical Engineering Science</i> , 2008, 63, 5141-5148.	1.9	14
46	JITL-based concentration control for semi-batch pH-shift reactive crystallization of l-glutamic acid. <i>Journal of Process Control</i> , 2014, 24, 415-421.	1.7	14
47	A Comparative Study of Model-Based Control Techniques for Batch Crystallization Process.. <i>Journal of Chemical Engineering of Japan</i> , 1999, 32, 456-464.	0.3	13
48	Correlation analysis based MIMO neuro-fuzzy Hammerstein model with noises. <i>Journal of Process Control</i> , 2016, 41, 76-91.	1.7	13
49	Adaptive decentralized PID controllers design using JITL modeling methodology. <i>Journal of Process Control</i> , 2012, 22, 1531-1542.	1.7	12
50	Relay-Based On-Line Monitoring Procedures for 2-2 and 3-3 Multiloop Control Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 2225-2230.	1.8	11
51	Interaction Measure for the Selection of Partially Decentralized Control Structures. <i>Industrial &amp; Engineering Chemistry Research</i> , 1998, 37, 4734-4739.	1.8	11
52	A Model for Pulse Jet Fabric Filters. <i>Journal of the Air and Waste Management Association</i> , 2000, 50, 600-612.	0.9	9
53	Multiple-Objective Based Model Predictive Control of Pulse Jet Fabric Filters. <i>Chemical Engineering Research and Design</i> , 2000, 78, 581-589.	2.7	9
54	Robust decentralized controller design for unstable systems. <i>Chemical Engineering Science</i> , 1997, 52, 2299-2311.	1.9	8

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55	A Fast Fourier Transform Approach for On-Line Monitoring of the Maximum Closed-Loop Log Modulus. <i>Industrial &amp; Engineering Chemistry Research</i> , 1998, 37, 1045-1050.	1.8	8
56	An Extended Self-Organizing Map for Nonlinear System Identification. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 3778-3788.	1.8	6
57	Monitoring pH-Shift Reactive Crystallization of L-Glutamic Acid Using Moving Window MPCA. <i>Journal of Chemical Engineering of Japan</i> , 2016, 49, 680-688.	0.3	6
58	VRFT-based digital controller design using a generalized second-order reference model. <i>Computers and Chemical Engineering</i> , 2020, 142, 107049.	2.0	6
59	Dynamic Analysis of Decentralized 2 $\times$ 2 Control Systems in Relation to Loop Interaction and Local Stability. <i>Industrial &amp; Engineering Chemistry Research</i> , 1998, 37, 464-473.	1.8	5
60	A New Strategy of Locality Enhancement for Justin-Time Learning Method. <i>Computer Aided Chemical Engineering</i> , 2012, 31, 1662-1666.	0.3	5
61	Fuzzy logic control of an unstable biological reactor. <i>Chemical Engineering and Technology</i> , 1997, 20, 414-418.	0.9	4
62	Adaptive IMC controller design using linear multiple models. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2010, 41, 446-452.	2.7	4
63	Improved Operation of Concentration Control for Antisolvent Crystallization Processes. <i>Organic Process Research and Development</i> , 2015, 19, 178-188.	1.3	4
64	Parametrization of all stabilizing IMC controllers for unstable plants. <i>International Journal of Control</i> , 1990, 51, 329-340.	1.2	3
65	On-line performance monitoring of two-inputs-two-outputs multiloop control systems. <i>Computers and Chemical Engineering</i> , 1996, 20, S829-S834.	2.0	3
66	An on-line monitoring procedure for 2 $\times$ 2 and 3 $\times$ 3 full multivariable control systems. <i>Chemical Engineering Science</i> , 1998, 53, 1277-1293.	1.9	3
67	An Extended Self-Organizing Map Network for Modeling and Control of Pulse Jet Fabric Filters. <i>Journal of the Air and Waste Management Association</i> , 2001, 51, 1035-1042.	0.9	3
68	An improved on-line monitoring procedure for multiloop control systems. <i>Chemical Engineering Journal</i> , 2001, 83, 145-154.	6.6	3
69	A novel neuro-fuzzy model-based run-to-run control for batch processes with uncertainties. , 2009, , .		3
70	Run-to-run product quality control of batch processes. <i>Journal of Shanghai University</i> , 2009, 13, 267-269.	0.1	3
71	An integrated model predictive control strategy for batch processes. , 2016, , .		3
72	Adaptive Single-Neuron Controller Design for Nonlinear Process Control. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 785-795.	0.3	3

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73	Data-based internal model controller design for a class of nonlinear systems. Computer Aided Chemical Engineering, 2005, 20, 1411-1416.	0.3	2
74	Adaptive Neuro-Fuzzy Control of Non-Affine Nonlinear Systems. , 0, , .		2
75	Data-Based Internal Model Controller Design for a Class of Nonlinear Systems. , 0, , .		2
76	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
77	A mathematical framework of high-order surface stresses in three-dimensional configurations. Acta Mechanica, 2014, 225, 1043-1060.	1.1	2
78	Integrated Iterative Learning Control Strategy for Batch Processes. Communications in Computer and Information Science, 2014, , 419-427.	0.4	2
79	SEQUENTIAL STABILIZATION OF DECENTRALIZED CONTROL SYSTEMS. Chemical Engineering Communications, 1998, 168, 187-206.	1.5	1
80	On-Line Monitoring for Multiloop Control Systems Under Load Disturbance. Chemical Engineering Research and Design, 2000, 78, 605-611.	2.7	1
81	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
82	Adaptive neuro-fuzzy identification method of Hammerstein model. , 0, , .		1
83	Adaptive Feedback-Feedforward Control for a Class of Nonlinear Chemical Processes. , 0, , .		1
84	A run-to-run control strategy for polymorphic transformation in pharmaceutical crystallization. , 2006, , .		1
85	VRFT-based predictor design for processes with inverse response. Journal of the Taiwan Institute of Chemical Engineers, 2021, 130, 104113-104113.	2.7	1
86	FFT-based monitoring procedure for intelligent control. Chemical Engineering Science, 1997, 52, 2823-2828.	1.9	0
87	Decoupling internal model control for multivariable systems with multiple time delays. , 1998, , .		0
88	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
89	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
90	A multiple models based predictive control strategy applied in polymerization reactor control. Computer Aided Chemical Engineering, 2003, 15, 1147-1152.	0.3	0

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91	Adaptive controller design using just-in-time learning algorithm. , 0, , .		0
92	Data-Based LQI Controller Design from Plant Data. Journal of Chemical Engineering of Japan, 2006, 39, 746-752.	0.3	0
93	Run-to-run Temperature Control for Polymorphic Transformation in Pharmaceutical Crystallization with Uncertainties. , 2006, , .		0
94	Adaptive IMC Design Using Multiple Models. , 2007, , .		0
95	Optimal Control of Polymorphic Transformation in Batch Pharmaceutical Crystallization. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	0
96	Selected papers from PSE ASIA 2010. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 317-319.	0.8	0
97	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
98	Direct design of PID controllers for stable processes with inverse response. , 2014, , .		0
99	Identification of MIMO Neuro-fuzzy Hammerstein Model with Noises. Communications in Computer and Information Science, 2014, , 298-306.	0.4	0
100	Mechanical Behavior of Nanowires with High-Order Surface Stress Effects. , 2018, , 157-177.		0
101	Simultaneous design of discrete-time inverse response predictor control systems. Computers and Chemical Engineering, 2022, 159, 107681.	2.0	0
102	Parametrization of All Stabilizing Decentralized IMC Controllers and A Sequential Stabilization Procedure. , 1989, , .		0