Gao, Furong

List of Publications by Year in Descending Order

191 papers	6,542 citations	42 h-index	73 g-index
197 ext. papers	7,947 ext. citations	4.6 avg, IF	6.63 L-index

#	Paper	IF	Citations
191	Soft clustering of retired lithium-ion batteries for the secondary utilization using Gaussian mixture model based on electrochemical impedance spectroscopy. *Journal of Cleaner Production*, **2022**, 339, 130786	10.3	2
190	Off-policy reinforcement learning-based novel model-free minmax fault-tolerant tracking control for industrial processes. *Journal of Process Control*, **2022**, 115, 145-156	3.9	
189	Data-Efficient Constrained Learning for Optimal Tracking of Batch Processes. *Industrial & Engineering Chemistry Research*, **2021**, 60, 15658-15668	3.9	2
188	Future Ageing Trajectory Prediction for Lithium-ion Battery Considering the Knee Point Effect. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	8
187	Constrained model predictive fault-tolerant control for multi-time-delayed batch processes with disturbances: A Lyapunov-Razumikhin function method. *Journal of the Franklin Institute*, **2021**, 358, 9483-9483	4	2
186	Non-stationary data reorganization for weighted wind turbine icing monitoring with Gaussian mixture model. *Computers and Chemical Engineering*, **2021**, 147, 107241	4	1
185	Control-Oriented Two-Dimensional Online System Identification for Batch Processes. *Industrial & Engineering Chemistry Research*, **2021**, 60, 7656-7666	3.9	1
184	Continual learning classification method with constant-sized memory cells based on the artificial immune system. *Knowledge-Based Systems*, **2021**, 213, 106673	7.3	8
183	Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 2536-2549	7.3	6
182	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 833-841	7.3	7
181	Conic Iterative Learning Control Using Distinct Data for Constrained Systems with State-Dependent Uncertainty. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	2
180	Fault Diagnosis of Complex Chemical Processes Using Feature Fusion of a Convolutional Network. *Industrial & Engineering Chemistry Research*, **2021**, 60, 2232-2248	3.9	6
179	Recovering large-scale battery aging dataset with machine learning. *Patterns*, **2021**, 2, 100302	5.1	30
178	Reconstruction of the incremental capacity trajectories from current-varying profiles for lithium-ion batteries. *IScience*, **2021**, 24, 103103	6.1	10
177	Comprehensive study and improvement of experimental methods for obtaining referenced battery state-of-power. *Journal of Power Sources*, **2021**, 512, 230462	8.9	4
176	RBF neural network modeling approach using PCA based LM-GA optimization for coke furnace system. *Applied Soft Computing Journal*, **2021**, 111, 107691	7.5	3
175	A Balancing Current Ratio based State-of-Health Estimation Solution for Lithium-ion Battery Pack. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	11

174	Model Migration Neural Network for Predicting Battery Aging Trajectories. *IEEE Transactions on Transportation Electrification*, **2020**, 6, 363-374	7.6	77
173	Nonlinear Process Quality Prediction Using Wavelet Denoising OSC-SVM-PLS. *Industrial & Engineering Chemistry Research*, **2020**, 59, 6021-6032	3.9	1
172	Linearity Decomposition-Based Cointegration Analysis for Nonlinear and Nonstationary Process Performance Assessment. *Industrial & Engineering Chemistry Research*, **2020**, 59, 3052-3063	3.9	8
171	Design of a Switching Control Strategy for Time-Varying Delay Batch Processes Using Fault Probability-Based Average Dwell Time Method. *Industrial & Engineering Chemistry Research*, **2020**, 59, 5087-5102	3.9	6
170	A more general incremental inter-agent learning adaptive control for multiple identical processes in mass production. *Neurocomputing*, **2020**, 397, 70-93	5.4	1
169	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-13	7.3	2
168	Intelligent Fault Diagnosis for Chemical Processes Using Deep Learning Multimodel Fusion. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	7
167	Multiphase two-dimensional time-slice dynamic system for batch process monitoring. *Journal of Process Control*, **2020**, 85, 184-198	3.9	7
166	Data-Driven Two-Dimensional Deep Correlated Representation Learning for Nonlinear Batch Process Monitoring. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 2839-2848	11.9	28
165	Battery incremental capacity curve extraction by a two-dimensional Luenberger-Gaussian-moving-average filter. *Applied Energy*, **2020**, 280, 115895	10.7	20
164	Design of modified 2-degree-of-freedom proportional-integral-derivative controller for unstable processes. *Measurement and Control*, **2020**, 53, 1465-1471	1.5	1
163	A New Synthetic Minmax Optimization Design of ${H_{infty} }$ LQ Tracking Control for Industrial Processes Under Partial Actuator Failure. *IEEE Transactions on Reliability*, **2020**, 69, 322-333	4.6	3
162	Run-to-Run Control for Active Balancing of Lithium Iron Phosphate Battery Packs. *IEEE Transactions on Power Electronics*, **2020**, 35, 1499-1512	7.2	39
161	Synthesis of ILC-MPC Controller With Data-Driven Approach for Constrained Batch Processes. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 3116-3125	8.9	15
160	Iterative Learning Stabilization and Fault-Tolerant Control for Batch Processes **2020**,		13
159	Data-Driven Batch-End Quality Modeling and Monitoring Based on Optimized Sparse Partial Least Squares. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 4098-4107	8.9	45
158	Joint estimation of battery state-of-charge and state-of-health based on a simplified pseudo-two-dimensional model. *Electrochimica Acta*, **2020**, 344, 136098	6.7	31
157	110th Anniversary: An Overview on Learning-Based Model Predictive Control for Batch Processes. *Industrial & Engineering Chemistry Research*, **2019**, 58, 17164-17173	3.9	17

156	Aging trajectory prediction for lithium-ion batteries via model migration and Bayesian Monte Carlo method. *Applied Energy*, **2019**, 254, 113591	10.7	55
155	Predicting Battery Aging Trajectory via a Migrated Aging Model and Bayesian Monte Carlo Method. *Energy Procedia*, **2019**, 158, 2456-2461	2.3	5
154	A Polytopic Invariant Set Based Iterative Learning Model Predictive Control. *IFAC-PapersOnLine*, **2019**, 52, 649-654	0.7	1
153	Real-time aging trajectory prediction using a base model-oriented gradient-correction particle filter for Lithium-ion batteries. *Journal of Power Sources*, **2019**, 440, 227118	8.9	35
152	Model migration based battery power capability evaluation considering uncertainties of temperature and aging. *Journal of Power Sources*, **2019**, 440, 227141	8.9	41
151	Load-responsive model switching estimation for state of charge of lithium-ion batteries. *Applied Energy*, **2019**, 238, 423-434	10.7	47
150	2D Switched Model-Based Infinite Horizon LQ Fault-Tolerant Tracking Control for Batch Process. *Industrial & Engineering Chemistry Research*, **2019**, 58, 9540-9551	3.9	12
149	PI based indirect-type iterative learning control for batch processes with time-varying uncertainties: A 2D FM model based approach. *Journal of Process Control*, **2019**, 78, 57-67	3.9	12
148	Nonlinear Multivariate Quality Prediction Based on OSC-SVM-PLS. *Industrial & Engineering Chemistry Research*, **2019**, 58, 8154-8161	3.9	5
147	Incipient Fault Detection for Multiphase Batch Processes With Limited Batches. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 103-117	4.8	29
146	Multiobjective Two-Dimensional CCA-Based Monitoring for Successive Batch Processes With Industrial Injection Molding Application. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 3825-3834	8.9	27
145	Performance-relevant kernel independent component analysis based operating performance assessment for nonlinear and non-Gaussian industrial processes. *Chemical Engineering Science*, **2019**, 209, 115167	4.4	9
144	A novel framework for Lithium-ion battery modeling considering uncertainties of temperature and aging. *Energy Conversion and Management*, **2019**, 180, 162-170	10.6	99
143	Multipoint Iterative Learning Model Predictive Control. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 6230-6240	8.9	27
142	Multivariate Statistical Monitoring of Key Operation Units of Batch Processes Based on Time-Slice CCA. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 1368-1375	4.8	43
141	Batch Process Modeling and Monitoring With Local Outlier Factor. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 1552-1565	4.8	26
140	Data Driven Modeling Using an Optimal Principle Component Analysis Based Neural Network and Its Application to a Nonlinear Coke Furnace. *Industrial & Engineering Chemistry Research*, **2018**, 57, 6344-6352	3.9	4
139	Delay-Range-Dependent-Based Hybrid Iterative Learning Fault-Tolerant Guaranteed Cost Control for Multiphase Batch Processes. *Industrial & Engineering Chemistry Research*, **2018**, 57, 2932-2944	3.9	36

138	Linearity Evaluation and Variable Subset Partition Based Hierarchical Process Modeling and Monitoring. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 2683-2692	8.9	70
137	Improved Nonlinear Quality Estimation for Multiphase Batch Processes Based on Relevance Vector Machine with Neighborhood Component Variable Selection. *Industrial & Engineering Chemistry Research*, **2018**, 57, 666-676	3.9	9
136	Two-directional concurrent strategy of mode identification and sequential phase division for multimode and multiphase batch process monitoring with uneven lengths. *Chemical Engineering Science*, **2018**, 178, 104-117	4.4	34
135	Mixed-effects Gaussian process modeling approach with application in injection molding processes. *Journal of Process Control*, **2018**, 62, 37-43	3.9	9
134	Gaussian Process Regression and Bayesian Inference Based Operating Performance Assessment for Multiphase Batch Processes. *Industrial & Engineering Chemistry Research*, **2018**, 57, 7232-7244	3.9	5
133	. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 2157-2164	4.8	37
132	Similar Batch Process Monitoring With Orthogonal Subspace Alignment. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 8173-8183	8.9	12
131	Nonlinear Monotonically Convergent Iterative Learning Control for Batch Processes. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 5826-5836	8.9	53
130	Online average-based system modelling method for batch process. *Computers and Chemical Engineering*, **2018**, 108, 128-138	4	15
129	A fast estimation algorithm for lithium-ion battery state of health. *Journal of Power Sources*, **2018**, 396, 453-458	8.9	137
128	Design of fuzzy iterative learning fault-tolerant control for batch processes with time-varying delays. *Optimal Control Applications and Methods*, **2018**, 39, 1887-1903	1.7	18
127	Long-Term Battery Voltage, Power, and Surface Temperature Prediction Using a Model-Based Extreme Learning Machine. *Energies*, **2018**, 11, 86	3.1	28
126	A hybrid 2D fault-tolerant controller design for multi-phase batch processes with time delay. *Journal of Process Control*, **2018**, 69, 138-157	3.9	23
125	An incremental Inter-agent learning method for adaptive control of multiple identical processes in mass production. *Neurocomputing*, **2018**, 315, 322-344	5.4	1
124	Monitoring big process data of industrial plants with multiple operating modes based on Hadoop. *Journal of the Taiwan Institute of Chemical Engineers*, **2018**, 91, 10-21	5.3	21
123	An intelligent non-optimality self-recovery method based on reinforcement learning with small data in big data era. *Chemometrics and Intelligent Laboratory Systems*, **2018**, 176, 89-100	3.8	9
122	An automatic glucose monitoring signal denoising method with noise level estimation and responsive filter updating. *Biomedical Signal Processing and Control*, **2018**, 41, 172-185	4.9	6
121	Hybrid iterative learning fault-tolerant guaranteed cost control design for multi-phase batch processes. *Canadian Journal of Chemical Engineering*, **2018**, 96, 521-530	2.3	29

120	Robust iterative learning control for multi-phase batch processes: an average dwell-time method with 2D convergence indexes. *International Journal of Systems Science*, **2018**, 49, 324-343	2.3	23
119	Guaranteed Cost Iterative Learning Control for Multi-Phase Batch Processes. *Journal of Shanghai Jiaotong University (Science)*, **2018**, 23, 811-819	0.6	1
118	Transfer of Qualitative and Quantitative Knowledge for Similar Batch Process Monitoring. *IEEE Access*, **2018**, 6, 73856-73870	3.5	4
117	A tube feedback iterative learning control for batch processes. *IFAC-PapersOnLine*, **2018**, 51, 785-790	0.7	1
116	Genetic-Algorithm-Optimization-Based Infinite Horizon Linear Quadratic Control for Injection Molding Batch Processes with Uncertainty. *Industrial & Engineering Chemistry Research*, **2018**, 57, 17462-17469	3.9	2
115	Multimodel Fractional Predictive Functional Control Design with Application on an Industrial Heating Furnace. *Industrial & Engineering Chemistry Research*, **2018**, 57, 14182-14190	3.9	3
114	Review and big data perspectives on robust data mining approaches for industrial process modeling with outliers and missing data. *Annual Reviews in Control*, **2018**, 46, 107-133	10.3	121
113	Hierarchical Multiblock T-PLS Based Operating Performance Assessment for Plant-Wide Processes. *Industrial & Engineering Chemistry Research*, **2018**, 57, 14617-14627	3.9	4
112	Inner-phase and inter-phase analysis based operating performance assessment and nonoptimal cause identification for multiphase batch processes. *Chemical Engineering Research and Design*, **2018**, 134, 292-308	5.5	1
111	. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 842-854	4.8	68
110	Iterative Learning and Extremum Seeking for Repetitive Time-Varying Mappings. *IEEE Transactions on Automatic Control*, **2017**, 62, 3339-3353	5.9	13
109	Iterative Learning Fault-Tolerant Control for Networked Batch Processes with Multirate Sampling and Quantization Effects. *Industrial & Engineering Chemistry Research*, **2017**, 56, 2515-2525	3.9	20
108	Fuzzy Iterative Learning Control for Batch Processes with Interval Time-Varying Delays. *Industrial & Engineering Chemistry Research*, **2017**, 56, 3993-4001	3.9	38
107	Improved design of constrained model predictive tracking control for batch processes against unknown uncertainties. *ISA Transactions*, **2017**, 69, 273-280	5.5	27
106	A Sparse Reconstruction Strategy for Online Fault Diagnosis in Nonstationary Processes with No a Priori Fault Information. *Industrial & Engineering Chemistry Research*, **2017**, 56, 6993-7008	3.9	43
105	State Space Model Predictive Control for Advanced Process Operation: A Review of Recent Development, New Results, and Insight. *Industrial & Engineering Chemistry Research*, **2017**, 56, 5360-5394	3.9	25
104	Observer based battery SOC estimation: Using multi-gain-switching approach. *Applied Energy*, **2017**, 204, 1275-1283	10.7	46
103	Subspace decomposition and critical phase selection based cumulative quality analysis for multiphase batch processes. *Chemical Engineering Science*, **2017**, 166, 130-143	4.4	22

102	Iterative learning fault-tolerant control for injection molding processes against actuator faults. *Journal of Process Control*, **2017**, 59, 59-72	3.9	36
101	Multimode and Multiphase Batch Processes Understanding and Monitoring Based on between-Mode Similarity Evaluation and Multimode Discriminative Information Analysis. *Industrial & Engineering Chemistry Research*, **2017**, 56, 9679-9690	3.9	9
100	LQG Benchmark Based Performance Assessment of IMC-PID Temperature Control System. *Industrial & Engineering Chemistry Research*, **2017**, 56, 15102-15111	3.9	5
99	Robust Iterative Learning Fault-Tolerant Control for Multiphase Batch Processes with Uncertainties. *Industrial & Engineering Chemistry Research*, **2017**, 56, 10099-10109	3.9	37
98	Iterative learning Kalman filter for repetitive processes. *Journal of Process Control*, **2016**, 46, 92-104	3.9	25
97	Online identification for batch processes in closed loop incorporating priori controller knowledge. *Computers and Chemical Engineering*, **2016**, 90, 222-233	4	9
96	Phase adaptive RVM model for quality prediction of multiphase batch processes with limited modeling batches. *Chemometrics and Intelligent Laboratory Systems*, **2016**, 156, 81-88	3.8	10
95	Fault Subspace Selection Approach Combined With Analysis of Relative Changes for Reconstruction Modeling and Multifault Diagnosis. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 928-939	4.8	47
94	Two-time dimensional recursive system identification incorporating priori pole and zero knowledge. *Journal of Process Control*, **2016**, 39, 100-110	3.9	8
93	Discrete-Time Robust Iterative Learning Kalman Filtering for Repetitive Processes. *IEEE Transactions on Automatic Control*, **2016**, 61, 270-275	5.9	23
92	New Minmax Linear Quadratic Fault-Tolerant Tracking Control for Batch Processes. *IEEE Transactions on Automatic Control*, **2016**, 61, 3045-3051	5.9	77
91	State-of-Charge Estimation for Li-Ion Power Batteries Based on a Tuning Free Observer. *Energies*, **2016**, 9, 675	3.1	22
90	Priori Knowledge-Based Online Batch-to-Batch Identification in a Closed Loop and an Application to Injection Molding. *Industrial & Engineering Chemistry Research*, **2016**, 55, 8818-8829	3.9	19
89	Synthesis of Real-Time-Feedback-Based 2D Iterative Learning Control Model Predictive Control for Constrained Batch Processes with Unknown Input Nonlinearity. *Industrial & Engineering Chemistry Research*, **2016**, 55, 13074-13084	3.9	25
88	Probabilistic Fault Diagnosis Based on Monte Carlo and Nested-Loop Fisher Discriminant Analysis for Industrial Processes. *Industrial & Engineering Chemistry Research*, **2016**, 55, 12896-12908	3.9	26
87	A New Approach of Takagi Sugeno Fuzzy Modeling Using an Improved Genetic Algorithm Optimization for Oxygen Content in a Coke Furnace. *Industrial & Engineering Chemistry Research*, **2016**, 55, 6465-6474	3.9	40
86	Ellipsoid invariant set-based robust model predictive control for repetitive processes with constraints. *IET Control Theory and Applications*, **2016**, 10, 1018-1026	2.5	8
85	State D vu Inter-agent learning adaptive control framework. *IFAC-PapersOnLine*, **2016**, 49, 984-989	0.7	2

84	Two-Time-Dimensional Model Predictive Control of Weld Line Positioning in Bi-Injection Molding. *Industrial & Engineering Chemistry Research*, **2015**, 54, 4795-4804	3.9	15
83	Bayesian improved model migration methodology for fast process modeling by incorporating prior information. *Chemical Engineering Science*, **2015**, 134, 23-35	4.4	18
82	A stable two-time dimensional (2D) Model Predictive Control with zero terminal state constraints for constrained batch processes. *IFAC-PapersOnLine*, **2015**, 48, 514-519	0.7	4
81	Multi-stage Process Analysis and Modelling based Online Monitoring for Chip Packaging Process. *IFAC-PapersOnLine*, **2015**, 48, 993-998	0.7	
80	Cost-Effective Process Modeling and Optimization Methodology Assisted by Robust Migration Techniques. *Industrial & Engineering Chemistry Research*, **2015**, 54, 5736-5748	3.9	8
79	Improved infinite horizon LQ tracking control for injection molding process against partial actuator failures. *Computers and Chemical Engineering*, **2015**, 80, 130-139	4	19
78	A Two-Stage Design of Two-Dimensional Model Predictive Iterative Learning Control for Nonrepetitive Disturbance Attenuation. *Industrial & Engineering Chemistry Research*, **2015**, 54, 5683-5689	3.9	20
77	State space model predictive fault-tolerant control for batch processes with partial actuator failure. *Journal of Process Control*, **2014**, 24, 613-620	3.9	43
76	Temperature Modeling in a Coke Furnace with an Improved RNA-GA Based RBF Network. *Industrial & Engineering Chemistry Research*, **2014**, 53, 3236-3245	3.9	31
75	Temperature Control of Industrial Coke Furnace Using Novel State Space Model Predictive Control. *IEEE Transactions on Industrial Informatics*, **2014**, 10, 2084-2092	11.9	50
74	Comparison of Two Types of Control Structures for Benzene Chlorine Reactive Distillation Systems. *Chinese Journal of Chemical Engineering*, **2014**, 22, 837-841	3.2	3
73	Predictive control optimization based PID control for temperature in an industrial surfactant reactor. *Chemometrics and Intelligent Laboratory Systems*, **2014**, 135, 48-62	3.8	20
72	Predictive Functional Control for Linear Systems under Partial Actuator Faults and Application on an Injection Molding Batch Process. *Industrial & Engineering Chemistry Research*, **2014**, 53, 723-731	3.9	39
71	Between-Mode Quality Analysis Based Multimode Batch Process Quality Prediction. *Industrial & Engineering Chemistry Research*, **2014**, 53, 15629-15638	3.9	11
70	Constrained two dimensional recursive least squares model identification for batch processes. *Journal of Process Control*, **2014**, 24, 871-879	3.9	31
69	Incorporating setting information for maintenance-free quality modeling of batch processes. *AICHE Journal*, **2013**, 59, 772-779	3.6	4
68	H∞ design of 2D controller for batch processes with uncertainties and interval time-varying delays. *Control Engineering Practice*, **2013**, 21, 1321-1333	3.9	44
67	Delay-range-dependent guaranteed cost control for batch processes with state delay. *AICHE Journal*, **2013**, 59, 2033-2045	3.6	17

66	Review of Recent Research on Data-Based Process Monitoring. *Industrial & Engineering Chemistry Research*, **2013**, 52, 3543-3562	3.9	657
65	Multivariable decoupling predictive functional control with non-zero pole cancellation and state weighting: Application on chamber pressure in a coke furnace. *Chemical Engineering Science*, **2013**, 94, 30-43	4.4	38
64	Delay-Range-Dependent Method for Iterative Learning Fault-Tolerant Guaranteed Cost Control for Batch Processes. *Industrial & Engineering Chemistry Research*, **2013**, 52, 2661-2671	3.9	31
63	Delay-range-dependent robust 2D iterative learning control for batch processes with state delay and uncertainties. *Journal of Process Control*, **2013**, 23, 715-730	3.9	43
62	Optimal Iterative Learning Control Based on a Time-Parametrized Linear Time-Varying Model for Batch Processes. *Industrial & Engineering Chemistry Research*, **2013**, 52, 6182-6192	3.9	13
61	Utilizing transition information in online quality prediction of multiphase batch processes. *Journal of Process Control*, **2012**, 22, 599-611	3.9	42
60	Two-time dimensional dynamic matrix control for batch processes with convergence analysis against the 2D interval uncertainty. *Journal of Process Control*, **2012**, 22, 899-914	3.9	19
59	Spectra calibration modeling and statistical analysis for cumulative quality interpretation and prediction. *AICHE Journal*, **2012**, 58, 466-479	3.6	2
58	Robust delay dependent iterative learning fault-tolerant control for batch processes with state delay and actuator failures. *Journal of Process Control*, **2012**, 22, 1273-1286	3.9	69
57	Robust Iterative Learning Control with Quadratic Performance Index. *Industrial & Engineering Chemistry Research*, **2012**, 51, 872-881	3.9	7
56	Phase Analysis and Identification Method for Multiphase Batch Processes with Partitioning Multi-way Principal Component Analysis (MPCA) Model. *Chinese Journal of Chemical Engineering*, **2012**, 20, 1121-1127	3.2	13
55	Between-phase-based statistical analysis and modeling for transition monitoring in multiphase batch processes. *AICHE Journal*, **2012**, 58, 2682-2696	3.6	16
54	Optimal Structure of Learning-Type Set-Point in Various Set-Point-Related Indirect ILC Algorithms. *Industrial & Engineering Chemistry Research*, **2011**, 50, 13427-13434	3.9	4
53	Multiphase calibration modeling and quality interpretation by priority sorting. *Chemical Engineering Science*, **2011**, 66, 5400-5409	4.4	4
52	Enhanced process comprehension and quality analysis based on subspace separation for multiphase batch processes. *AICHE Journal*, **2011**, 57, 388-403	3.6	6
51	Spectra data analysis and calibration modeling method using spectra subspace separation and multiblock independent component regression strategy. *AICHE Journal*, **2011**, 57, 1202-1215	3.6	3
50	A bidirectional between-set statistical analysis method and its applications. *AICHE Journal*, **2011**, 57, 1233-1249	3.6	2
49	Mixture probabilistic PCR model for soft sensing of multimode processes. *Chemometrics and Intelligent Laboratory Systems*, **2011**, 105, 91-105	3.8	82

48	Robust design of feedback integrated with iterative learning control for batch processes with uncertainties and interval time-varying delays. *Journal of Process Control*, **2011**, 21, 987-996	3.9	35
47	Batch process monitoring based on support vector data description method. *Journal of Process Control*, **2011**, 21, 949-959	3.9	97
46	Statistical analysis and online monitoring for handling multiphase batch processes with varying durations. *Journal of Process Control*, **2011**, 21, 817-829	3.9	44
45	Enhanced IMC design of load disturbance rejection for integrating and unstable processes with slow dynamics. *ISA Transactions*, **2011**, 50, 239-48	5.5	57
44	Statistical Monitoring and Fault Diagnosis of Batch Processes Using Two-Dimensional Dynamic Information. *Industrial & Engineering Chemistry Research*, **2010**, 49, 9961-9969	3.9	9
43	IMC-based iterative learning control for batch processes with uncertain time delay. *Journal of Process Control*, **2010**, 20, 173-180	3.9	84
42	Multivariate statistical monitoring of two-dimensional dynamic batch processes utilizing non-Gaussian information. *Journal of Process Control*, **2010**, 20, 1188-1197	3.9	36
41	Robust two-dimensional iterative learning control for batch processes with state delay and time-varying uncertainties. *Chemical Engineering Science*, **2010**, 65, 6134-6144	4.4	81
40	Automatic velocity profile determination for uniform filling in injection molding. *Polymer Engineering and Science*, **2010**, 50, 1358-1371	2.3	9
39	Process similarity and developing new process models through migration. *AICHE Journal*, **2009**, 55, 2318-2328	3.6	38
38	Generalized predictive control of linear systems with actuator arrearage faults. *Journal of Process Control*, **2009**, 19, 803-815	3.9	12
37	Survey on iterative learning control, repetitive control, and run-to-run control. *Journal of Process Control*, **2009**, 19, 1589-1600	3.9	477
36	A generalized relay identification method for time delay and non-minimum phase processes. *Automatica*, **2009**, 45, 1072-1079	5.7	34
35	A survey on multistage/multiphase statistical modeling methods for batch processes. *Annual Reviews in Control*, **2009**, 33, 172-183	10.3	175
34	Model Migration for Development of a New Process Model. *Industrial & Engineering Chemistry Research*, **2009**, 48, 9603-9610	3.9	27
33	Model Migration with Inclusive Similarity for Development of a New Process Model. *Industrial & Engineering Chemistry Research*, **2008**, 47, 9508-9516	3.9	27
32	Subspace identification for two-dimensional dynamic batch process statistical monitoring. *Chemical Engineering Science*, **2008**, 63, 3411-3418	4.4	31
31	Development of a transducer for in-line and through cycle monitoring of key process and quality variables in injection molding. *Sensors and Actuators A: Physical*, **2008**, 141, 712-722	3.9	23

30	Injection molding control: From single cycle to batch control. *Advances in Polymer Technology*, **2008**, 27, 217-223	1.9	1
29	A systematic approach for on-line identification of second-order process model from relay feedback test. *AICHE Journal*, **2008**, 54, 1560-1578	3.6	29
28	Iterative learning model predictive control for multi-phase batch processes. *Journal of Process Control*, **2008**, 18, 543-557	3.9	101
27	Identification of integrating and unstable processes from relay feedback. *Computers and Chemical Engineering*, **2008**, 32, 3038-3056	4	31
26	Iterative learning reliable control of batch processes with sensor faults. *Chemical Engineering Science*, **2008**, 63, 1039-1051	4.4	38
25	Single-cycle and multi-cycle generalized 2D model predictive iterative learning control (2D-GPILC) schemes for batch processes. *Journal of Process Control*, **2007**, 17, 715-727	3.9	80
24	Application of a capacitive transducer for online part weight prediction and fault detection in injection molding. *Polymer Engineering and Science*, **2007**, 47, 347-353	2.3	10
23	Optimal start-up control of injection molding barrel temperature. *Polymer Engineering and Science*, **2007**, 47, 254-261	2.3	17
22	Robust iterative learning control design for batch processes with uncertain perturbations and initialization. *AICHE Journal*, **2006**, 52, 2171-2187	3.6	63
21	Iterative Learning Fault-Tolerant Control for Batch Processes. *Industrial & Engineering Chemistry Research*, **2006**, 45, 9050-9060	3.9	96
20	Injection molding product weight: Online prediction and control based on a nonlinear principal component regression model. *Polymer Engineering and Science*, **2006**, 46, 540-548	2.3	60
19	Integrated Design and Structure Analysis of Robust Iterative Learning Control System Based on a Two-Dimensional Model. *Industrial & Engineering Chemistry Research*, **2005**, 44, 8095-8105	3.9	39
18	Stage-Based Process Analysis and Quality Prediction for Batch Processes. *Industrial & Engineering Chemistry Research*, **2005**, 44, 3547-3555	3.9	107
17	Robust design of integrated feedback and iterative learning control of a batch process based on a 2D Roesser system. *Journal of Process Control*, **2005**, 15, 907-924	3.9	145
16	Two-dimensional dynamic PCA for batch process monitoring. *AICHE Journal*, **2005**, 51, 3300-3304	3.6	71
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