Gao, Furong

List of Publications by Year
in descending order

198 papers	9,085 citations	41323 49 h-index	49868 87 g-index
198 all docs	198 docs citations	198 times ranked	3788 citing authors

#	Article	IF	Citations
1	Review of Recent Research on Data-Based Process Monitoring. Industrial & Engineering Chemistry Research, 2013, 52, 3543-3562.	1.8	827
2	Survey on iterative learning control, repetitive control, and run-to-run control. Journal of Process Control, 2009, 19, 1589-1600.	1.7	635
3	Sub-PCA modeling and on-line monitoring strategy for batch processes. AICHE Journal, 2004, 50, 255-259.	1.8	245
4	A fast estimation algorithm for lithium-ion battery state of health. Journal of Power Sources, 2018, 396, 453-458.	4.0	240
5	A survey on multistage/multiphase statistical modeling methods for batch processes. Annual Reviews in Control, 2009, 33, 172-183.	4.4	209
6	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.	4.4	202
7	Robust iterative learning control with applications to injection molding process. Chemical Engineering Science, 2001, 56, 7025-7034.	1.9	181
8	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.	1.7	176
9	A novel framework for Lithium-ion battery modeling considering uncertainties of temperature and aging. Energy Conversion and Management, 2019, 180, 162-170.	4.4	145
10	Iterative learning model predictive control for multi-phase batch processes. Journal of Process Control, 2008, 18, 543-557.	1.7	139
11	Model Migration Neural Network for Predicting Battery Aging Trajectories. IEEE Transactions on Transportation Electrification, 2020, 6, 363-374.	5.3	127
12	Stage-Based Process Analysis and Quality Prediction for Batch Processes. Industrial & Engineering Chemistry Research, 2005, 44, 3547-3555.	1.8	125
13	Iterative Learning Fault-Tolerant Control for Batch Processes. Industrial & Engineering Chemistry Research, 2006, 45, 9050-9060.	1.8	123
14	Batch process monitoring based on support vector data description method. Journal of Process Control, 2011, 21, 949-959.	1.7	120
15	IMC-based iterative learning control for batch processes with uncertain time delay. Journal of Process Control, 2010, 20, 173-180.	1.7	109
16	Robust two-dimensional iterative learning control for batch processes with state delay and time-varying uncertainties. Chemical Engineering Science, 2010, 65, 6134-6144.	1.9	107
17	Adaptive control of the filling velocity of thermoplastics injection molding. Control Engineering Practice, 2000, 8, 1285-1296.	3.2	103
18	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.	1.7	103

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19	Joint estimation of battery state-of-charge and state-of-health based on a simplified pseudo-two-dimensional model. Electrochimica Acta, 2020, 344, 136098.	2.6	101
20	Mixture probabilistic PCR model for soft sensing of multimode processes. Chemometrics and Intelligent Laboratory Systems, 2011, 105, 91-105.	1.8	100
21	Critical-to-Fault-Degradation Variable Analysis and Direction Extraction for Online Fault Prognostic. IEEE Transactions on Control Systems Technology, 2017, 25, 842-854.	3.2	98
22	Linearity Evaluation and Variable Subset Partition Based Hierarchical Process Modeling and Monitoring. IEEE Transactions on Industrial Electronics, 2018, 65, 2683-2692.	5.2	98
23	Two-dimensional dynamic PCA for batch process monitoring. AICHE Journal, 2005, 51, 3300-3304.	1.8	89
24	New Minmax Linear Quadratic Fault-Tolerant Tracking Control for Batch Processes. IEEE Transactions on Automatic Control, 2016, 61, 3045-3051.	3.6	89
25	Aging trajectory prediction for lithium-ion batteries via model migration and Bayesian Monte Carlo method. Applied Energy, 2019, 254, 113591.	5.1	89
26	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.	1.7	87
27	Data-Driven Batch-End Quality Modeling and Monitoring Based on Optimized Sparse Partial Least Squares. IEEE Transactions on Industrial Electronics, 2020, 67, 4098-4107.	5.2	84
28	Robust iterative learning control design for batch processes with uncertain perturbations and initialization. AICHE Journal, 2006, 52, 2171-2187.	1.8	76
29	Injection molding product weight: Online prediction and control based on a nonlinear principal component regression model. Polymer Engineering and Science, 2006, 46, 540-548.	1.5	75
30	Recovering large-scale battery aging dataset with machine learning. Patterns, 2021, 2, 100302.	3.1	71
31	Nonlinear Monotonically Convergent Iterative Learning Control for Batch Processes. IEEE Transactions on Industrial Electronics, 2018, 65, 5826-5836.	5.2	70
32	Enhanced IMC design of load disturbance rejection for integrating and unstable processes with slow dynamics. ISA Transactions, 2011, 50, 239-248.	3.1	69
33	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.	1.8	63
34	Observer based battery SOC estimation: Using multi-gain-switching approach. Applied Energy, 2017, 204, 1275-1283.	5.1	63
35	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.	3.2	62
36	Load-responsive model switching estimation for state of charge of lithium-ion batteries. Applied Energy, 2019, 238, 423-434.	5.1	61

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37	Run-to-Run Control for Active Balancing of Lithium Iron Phosphate Battery Packs. IEEE Transactions on Power Electronics, 2020, 35, 1499-1512.	5.4	61
38	Cycle-to-cycle and within-cycle adaptive control of nozzle pressure during packing-holding for thermoplastic injection molding. Polymer Engineering and Science, 1999, 39, 2042-2063.	1.5	60
39	Process similarity and developing new process models through migration. AICHE Journal, 2009, 55, 2318-2328.	1.8	60
40	Temperature Control of Industrial Coke Furnace Using Novel State Space Model Predictive Control. IEEE Transactions on Industrial Informatics, 2014, 10, 2084-2092.	7.2	60
41	Model migration based battery power capability evaluation considering uncertainties of temperature and aging. Journal of Power Sources, 2019, 440, 227141.	4.0	60
42	Delay-range-dependent robust 2D iterative learning control for batch processes with state delay and uncertainties. Journal of Process Control, 2013, 23, 715-730.	1.7	57
43	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.	4.0	55
44	Iterative learning reliable control of batch processes with sensor faults. Chemical Engineering Science, 2008, 63, 1039-1051.	1.9	54
45	Hâˆž design of 2D controller for batch processes with uncertainties and interval time-varying delays. Control Engineering Practice, 2013, 21, 1321-1333.	3.2	54
46	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.	1.8	53
47	Statistical analysis and online monitoring for handling multiphase batch processes with varying durations. Journal of Process Control, 2011, 21, 817-829.	1.7	51
48	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.	3.2	51
49	Utilizing transition information in online quality prediction of multiphase batch processes. Journal of Process Control, 2012, 22, 599-611.	1.7	50
50	A New Approach of Takagiâ€“Sugeno Fuzzy Modeling Using an Improved Genetic Algorithm Optimization for Oxygen Content in a Coke Furnace. Industrial & Engineering Chemistry Research, 2016, 55, 6465-6474.	1.8	50
51	A Systematic Minâ€“Max Optimization Design of Constrained Model Predictive Tracking Control for Industrial Processes against Uncertainty. IEEE Transactions on Control Systems Technology, 2018, 26, 2157-2164.	3.2	50
52	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.	1.9	49
53	State space model predictive fault-tolerant control for batch processes with partial actuator failure. Journal of Process Control, 2014, 24, 613-620.	1.7	48
54	Fuzzy Iterative Learning Control for Batch Processes with Interval Time-Varying Delays. Industrial & Engineering Chemistry Research, 2017, 56, 3993-4001.	1.8	48

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55	Batch Process Modeling and Monitoring With Local Outlier Factor. IEEE Transactions on Control Systems Technology, 2019, 27, 1552-1565.	3.2	48
56	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.	1.7	46
57	Multipoint Iterative Learning Model Predictive Control. IEEE Transactions on Industrial Electronics, 2019, 66, 6230-6240.	5.2	46
58	Data-Driven Two-Dimensional Deep Correlated Representation Learning for Nonlinear Batch Process Monitoring. IEEE Transactions on Industrial Informatics, 2020, 16, 2839-2848.	7.2	46
59	Battery incremental capacity curve extraction by a two-dimensional Luenbergerâ€“Gaussian-moving-average filter. Applied Energy, 2020, 280, 115895.	5.1	46
60	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.	1.8	45
61	Robust Iterative Learning Fault-Tolerant Control for Multiphase Batch Processes with Uncertainties. Industrial & Engineering Chemistry Research, 2017, 56, 10099-10109.	1.8	45
62	Iterative learning fault-tolerant control for injection molding processes against actuator faults. Journal of Process Control, 2017, 59, 59-72.	1.7	44
63	Delay-Range-Dependent-Based Hybrid Iterative Learning Fault-Tolerant Guaranteed Cost Control for Multiphase Batch Processes. Industrial & Engineering Chemistry Research, 2018, 57, 2932-2944.	1.8	44
64	Multivariate statistical monitoring of two-dimensional dynamic batch processes utilizing non-Gaussian information. Journal of Process Control, 2010, 20, 1188-1197.	1.7	43
65	Multivariable decoupling predictive functional control with non-zeroâ€“pole cancellation and state weighting: Application on chamber pressure in a coke furnace. Chemical Engineering Science, 2013, 94, 30-43.	1.9	43
66	Incipient Fault Detection for Multiphase Batch Processes With Limited Batches. IEEE Transactions on Control Systems Technology, 2019, 27, 103-117.	3.2	42
67	A generalized relay identification method for time delay and non-minimum phase processes. Automatica, 2009, 45, 1072-1079.	3.0	41
68	Multiobjective Two-Dimensional CCA-Based Monitoring for Successive Batch Processes With Industrial Injection Molding Application. IEEE Transactions on Industrial Electronics, 2019, 66, 3825-3834.	5.2	41
69	Long-Term Battery Voltage, Power, and Surface Temperature Prediction Using a Model-Based Extreme Learning Machine. Energies, 2018, 11, 86.	1.6	39
70	A systematic approach for onâ€line identification of secondâ€order process model from relay feedback test. AICHE Journal, 2008, 54, 1560-1578.	1.8	38
71	Identification of integrating and unstable processes from relay feedback. Computers and Chemical Engineering, 2008, 32, 3038-3056.	2.0	38
72	A hybrid 2D fault-tolerant controller design for multi-phase batch processes with time delay. Journal of Process Control, 2018, 69, 138-157.	1.7	38

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73	Future Ageing Trajectory Prediction for Lithium-Ion Battery Considering the Knee Point Effect. IEEE Transactions on Energy Conversion, 2022, 37, 1282-1291.	3.7	38
74	Subspace identification for two-dimensional dynamic batch process statistical monitoring. Chemical Engineering Science, 2008, 63, 3411-3418.	1.9	37
75	Model Migration with Inclusive Similarity for Development of a New Process Model. Industrial & Engineering Chemistry Research, 2008, 47, 9508-9516.	1.8	37
76	Temperature Modeling in a Coke Furnace with an Improved RNA-GA Based RBF Network. Industrial & Engineering Chemistry Research, 2014, 53, 3236-3245.	1.8	37
77	Iterative learning Kalman filter for repetitive processes. Journal of Process Control, 2016, 46, 92-104.	1.7	35
78	Constrained two dimensional recursive least squares model identification for batch processes. Journal of Process Control, 2014, 24, 871-879.	1.7	34
79	Delay-Range-Dependent Method for Iterative Learning Fault-Tolerant Guaranteed Cost Control for Batch Processes. Industrial & Engineering Chemistry Research, 2013, 52, 2661-2671.	1.8	33
80	Synthesis of Real-Time-Feedback-Based 2D Iterative Learning Controlâ€“Model Predictive Control for Constrained Batch Processes with Unknown Input Nonlinearity. Industrial & Engineering Chemistry Research, 2016, 55, 13074-13084.	1.8	33
81	Intelligent Fault Diagnosis for Chemical Processes Using Deep Learning Multimodel Fusion. IEEE Transactions on Cybernetics, 2022, 52, 7121-7135.	6.2	33
82	Model Migration for Development of a New Process Model. Industrial & Engineering Chemistry Research, 2009, 48, 9603-9610.	1.8	32
83	Hybrid iterative learning faultâ€tolerant guaranteed cost control design for multiâ€phase batch processes. Canadian Journal of Chemical Engineering, 2018, 96, 521-530.	0.9	32
84	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.	2.0	31
85	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.	4.6	31
86	Predictive control optimization based PID control for temperature in an industrial surfactant reactor. Chemometrics and Intelligent Laboratory Systems, 2014, 135, 48-62.	1.8	30
87	Improved design of constrained model predictive tracking control for batch processes against unknown uncertainties. ISA Transactions, 2017, 69, 273-280.	3.1	30
88	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.	3.7	30
89	Design of fuzzy iterative learning faultâ€tolerant control for batch processes with timeâ€varying delays. Optimal Control Applications and Methods, 2018, 39, 1887-1903.	1.3	30
90	110th Anniversary: An Overview on Learning-Based Model Predictive Control for Batch Processes. Industrial & Engineering Chemistry Research, 2019, 58, 17164-17173.	1.8	30

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91	Synthesis of ILCâ€“MPC Controller With Data-Driven Approach for Constrained Batch Processes. IEEE Transactions on Industrial Electronics, 2020, 67, 3116-3125.	5.2	30
92	Capacitive transducer for in-mold monitoring of injection molding. Polymer Engineering and Science, 2004, 44, 1571-1578.	1.5	29
93	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.	1.7	29
94	Probabilistic Fault Diagnosis Based on Monte Carlo and Nested-Loop Fisher Discriminant Analysis for Industrial Processes. Industrial & Engineering Chemistry Research, 2016, 55, 12896-12908.	1.8	29
95	Discrete-Time Robust Iterative Learning Kalman Filtering for Repetitive Processes. IEEE Transactions on Automatic Control, 2016, 61, 270-275.	3.6	29
96	Subspace decomposition and critical phase selection based cumulative quality analysis for multiphase batch processes. Chemical Engineering Science, 2017, 166, 130-143.	1.9	28
97	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.	1.7	28
98	A Balancing Current Ratio Based State-of-Health Estimation Solution for Lithium-Ion Battery Pack. IEEE Transactions on Industrial Electronics, 2022, 69, 8055-8065.	5.2	28
99	Iterative Learning Fault-Tolerant Control for Networked Batch Processes with Multirate Sampling and Quantization Effects. Industrial & Engineering Chemistry Research, 2017, 56, 2515-2525.	1.8	26
100	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.	1.8	26
101	Reconstruction of the incremental capacity trajectories from current-varying profiles for lithium-ion batteries. IScience, 2021, 24, 103103.	1.9	26
102	A study of packing profile on injection molded part quality. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 358, 205-213.	2.6	25
103	A Two-Stage Design of Two-Dimensional Model Predictive Iterative Learning Control for Nonrepetitive Disturbance Attenuation. Industrial & Engineering Chemistry Research, 2015, 54, 5683-5689.	1.8	25
104	State-of-Charge Estimation for Li-Ion Power Batteries Based on a Tuning Free Observer. Energies, 2016, 9, 675.	1.6	25
105	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.	2.7	25
106	Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2536-2549.	5.9	25
107	Optimal start-up control of injection molding barrel temperature. Polymer Engineering and Science, 2007, 47, 254-261.	1.5	22
108	Optimal Iterative Learning Control Based on a Time-Parametrized Linear Time-Varying Model for Batch Processes. Industrial & Engineering Chemistry Research, 2013, 52, 6182-6192.	1.8	22

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109	Improved infinite horizon LQ tracking control for injection molding process against partial actuator failures. Computers and Chemical Engineering, 2015, 80, 130-139.	2.0	22
110	Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 833-841.	5.9	22
111	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.	1.8	21
112	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.	1.8	21
113	Performance-relevant kernel independent component analysis based operating performance assessment for nonlinear and non-Gaussian industrial processes. Chemical Engineering Science, 2019, 209, 115167.	1.9	21
114	Bayesian improved model migration methodology for fast process modeling by incorporating prior information. Chemical Engineering Science, 2015, 134, 23-35.	1.9	20
115	Continual learning classification method with constant-sized memory cells based on the artificial immune system. Knowledge-Based Systems, 2021, 213, 106673.	4.0	20
116	Fault Diagnosis of Complex Chemical Processes Using Feature Fusion of a Convolutional Network. Industrial & Engineering Chemistry Research, 2021, 60, 2232-2248.	1.8	20
117	Generalized predictive control of linear systems with actuator arrearage faults. Journal of Process Control, 2009, 19, 803-815.	1.7	19
118	Online average-based system modelling method for batch process. Computers and Chemical Engineering, 2018, 108, 128-138.	2.0	19
119	RBF neural network modeling approach using PCA basedÂLMâ€“GA optimization for coke furnace system. Applied Soft Computing Journal, 2021, 111, 107691.	4.1	19
120	Betweenâ€phaseâ€based statistical analysis and modeling for transition monitoring in multiphase batch processes. AICHE Journal, 2012, 58, 2682-2696.	1.8	18
121	Delayâ€rangeâ€dependent guaranteed cost control for batch processes with state delay. AICHE Journal, 2013, 59, 2033-2045.	1.8	18
122	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.	1.8	18
123	Fuzzy multiâ€model based adaptive predictive control and its application to thermoplastic injection molding. Canadian Journal of Chemical Engineering, 2001, 79, 263-272.	0.9	17
124	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.	1.7	17
125	Between-Mode Quality Analysis Based Multimode Batch Process Quality Prediction. Industrial & Engineering Chemistry Research, 2014, 53, 15629-15638.	1.8	17
126	Iterative Learning Stabilization and Fault-Tolerant Control for Batch Processes. , 2020, , .		17

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127	Multiphase two-dimensional time-slice dynamic system for batch process monitoring. Journal of Process Control, 2020, 85, 184-198.	1.7	17
128	Automatic velocity profile determination for uniform filling in injection molding. Polymer Engineering and Science, 2010, 50, 1358-1371.	1.5	16
129	Two-Time-Dimensional Model Predictive Control of Weld Line Positioning in Bi-Injection Molding. Industrial & Engineering Chemistry Research, 2015, 54, 4795-4804.	1.8	16
130	Mixed-effects Gaussian process modeling approach with application in injection molding processes. Journal of Process Control, 2018, 62, 37-43.	1.7	16
131	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, 9483-9509.	1.9	16
132	Application of a capacitive transducer for online part weight prediction and fault detection in injection molding. Polymer Engineering and Science, 2007, 47, 347-353.	1.5	15
133	Iterative Learning and Extremum Seeking for Repetitive Time-Varying Mappings. IEEE Transactions on Automatic Control, 2017, 62, 3339-3353.	3.6	15
134	2D Switched Model-Based Infinite Horizon LQ Fault-Tolerant Tracking Control for Batch Process. Industrial & Engineering Chemistry Research, 2019, 58, 9540-9551.	1.8	15
135	Compressing and reconstructing the voltage data for lithium-ion batteries using model migration and un-equidistant sampling techniques. ETransportation, 2022, 13, 100186.	6.8	15
136	Similar Batch Process Monitoring With Orthogonal Subspace Alignment. IEEE Transactions on Industrial Electronics, 2018, 65, 8173-8183.	5.2	14
137	Comprehensive study and improvement of experimental methods for obtaining referenced battery state-of-power. Journal of Power Sources, 2021, 512, 230462.	4.0	14
138	A visual barrel system for study of reciprocating screw injection molding. Polymer Engineering and Science, 2000, 40, 1334-1343.	1.5	13
139	An experimental study of solid-bed break-up in plasticization of a reciprocating-screw injection molding. Polymer Engineering and Science, 2004, 44, 1313-1318.	1.5	13
140	Robust Iterative Learning Control with Quadratic Performance Index. Industrial & Engineering Chemistry Research, 2012, 51, 872-881.	1.8	13
141	Phase adaptive RVM model for quality prediction of multiphase batch processes with limited modeling batches. Chemometrics and Intelligent Laboratory Systems, 2016, 156, 81-88.	1.8	13
142	Linearity Decomposition-Based Cointegration Analysis for Nonlinear and Nonstationary Process Performance Assessment. Industrial & Engineering Chemistry Research, 2020, 59, 3052-3063.	1.8	13
143	Conic Iterative Learning Control Using Distinct Data for Constrained Systems With State-Dependent Uncertainty. IEEE Transactions on Industrial Informatics, 2022, 18, 3095-3104.	7.2	13
144	Statistical Monitoring and Fault Diagnosis of Batch Processes Using Two-Dimensional Dynamic Information. Industrial & Engineering Chemistry Research, 2010, 49, 9961-9969.	1.8	12

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145	Ellipsoid invariant setâ€based robust model predictive control for repetitive processes with constraints. IET Control Theory and Applications, 2016, 10, 1018-1026.	1.2	12
146	Hierarchical Multiblock T-PLS Based Operating Performance Assessment for Plant-Wide Processes. Industrial & Engineering Chemistry Research, 2018, 57, 14617-14627.	1.8	12
147	Optimal Iterative Learning Control for Batch Processes in the Presence of Time-Varying Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 680-692.	5.9	12
148	Model Fusion and Multiscale Feature Learning for Fault Diagnosis of Industrial Processes. IEEE Transactions on Cybernetics, 2023, 53, 6465-6478.	6.2	12
149	Online identification for batch processes in closed loop incorporating priori controller knowledge. Computers and Chemical Engineering, 2016, 90, 222-233.	2.0	11
150	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.	1.8	11
151	Cost-Effective Process Modeling and Optimization Methodology Assisted by Robust Migration Techniques. Industrial & Engineering Chemistry Research, 2015, 54, 5736-5748.	1.8	10
152	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.	3.5	10
153	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.	1.8	10
154	Optimal Structure of Learning-Type Set-Point in Various Set-Point-Related Indirect ILC Algorithms. Industrial & Engineering Chemistry Research, 2011, 50, 13427-13434.	1.8	9
155	Enhanced process comprehension and quality analysis based on subspace separation for multiphase batch processes. AICHE Journal, 2011, 57, 388-403.	1.8	9
156	Gaussian Process Regression and Bayesian Inference Based Operating Performance Assessment for Multiphase Batch Processes. Industrial & Engineering Chemistry Research, 2018, 57, 7232-7244.	1.8	9
157	Nonlinear Multivariate Quality Prediction Based on OSC-SVM-PLS. Industrial & Engineering Chemistry Research, 2019, 58, 8154-8161.	1.8	9
158	Non-stationary data reorganization for weighted wind turbine icing monitoring with Gaussian mixture model. Computers and Chemical Engineering, 2021, 147, 107241.	2.0	9
159	Continual learning classification method and its application to equipment fault diagnosis. Applied Intelligence, 2022, 52, 858-874.	3.3	9
160	An automatic glucose monitoring signal denoising method with noise level estimation and responsive filter updating. Biomedical Signal Processing and Control, 2018, 41, 172-185.	3.5	9
161	A soft-sensor development for melt-flow-length measurement during injection mold filling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 384, 245-254.	2.6	9
162	Two-time dimensional recursive system identification incorporating priori pole and zero knowledge. Journal of Process Control, 2016, 39, 100-110.	1.7	8

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163	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.	1.8	8
164	Transfer of Qualitative and Quantitative Knowledge for Similar Batch Process Monitoring. IEEE Access, 2018, 6, 73856-73870.	2.6	8
165	LQG Benchmark Based Performance Assessment of IMC-PID Temperature Control System. Industrial & Engineering Chemistry Research, 2017, 56, 15102-15111.	1.8	7
166	Data-Efficient Constrained Learning for Optimal Tracking of Batch Processes. Industrial & Engineering Chemistry Research, 2021, 60, 15658-15668.	1.8	7
167	Predicting Battery Aging Trajectory via a Migrated Aging Model and Bayesian Monte Carlo Method. Energy Procedia, 2019, 158, 2456-2461.	1.8	6
168	Nonlinear Process Quality Prediction Using Wavelet Denoising OSC-SVM-PLS. Industrial & Engineering Chemistry Research, 2020, 59, 6021-6032.	1.8	6
169	Off-policy reinforcement learning-based novel model-free minmax fault-tolerant tracking control for industrial processes. Journal of Process Control, 2022, 115, 145-156.	1.7	6
170	Multiphase calibration modeling and quality interpretation by priority sorting. Chemical Engineering Science, 2011, 66, 5400-5409.	1.9	5
171	Optimal synchronization control for heterogeneous multiâ€agent systems: Online adaptive learning solutions. Asian Journal of Control, 0, , .	1.9	5
172	Conic Input Mapping Design of Constrained Optimal Iterative Learning Controller for Uncertain Systems. IEEE Transactions on Cybernetics, 2023, 53, 1843-1855.	6.2	5
173	Predictive control for processes with input dynamic nonlinearity. Chemical Engineering Science, 2000, 55, 4045-4052.	1.9	4
174	A robust calibration modeling strategy for analysis of interferenceâ€subject spectral data. AICHE Journal, 2010, 56, 196-206.	1.8	4
175	Incorporating setting information for maintenanceâ€free quality modeling of batch processes. AICHE Journal, 2013, 59, 772-779.	1.8	4
176	A stable two-time dimensional (2D) Model Predictive Control with zero terminal state constraints for constrained batch processes. IFAC-PapersOnLine, 2015, 48, 514-519.	0.5	4
177	Data-Driven Optimal Synchronization Control for Leader-Follower Multiagent Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 495-503.	5.9	4
178	On-line detection of the gate freezing-off time for injection molding. Polymer Engineering and Science, 2005, 45, 33-41.	1.5	3
179	Injection molding control: From single cycle to batch control. Advances in Polymer Technology, 2008, 27, 217-223.	0.8	3
180	Spectra data analysis and calibration modeling method using spectra subspace separation and multiblock independent component regression strategy. AICHE Journal, 2011, 57, 1202-1215.	1.8	3

#	Article	IF	Citations
181	A bidirectional betweenâ€set statistical analysis method and its applications. AICHE Journal, 2011, 57, 1233-1249.	1.8	3
182	Comparison of Two Types of Control Structures for Benzene Chlorine Reactive Distillation Systems. Chinese Journal of Chemical Engineering, 2014, 22, 837-841.	1.7	3
183	Multimodel Fractional Predictive Functional Control Design with Application on an Industrial Heating Furnace. Industrial & Engineering Chemistry Research, 2018, 57, 14182-14190.	1.8	3
184	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.	2.7	3
185	A Polytopic Invariant Set Based Iterative Learning Model Predictive Control. IFAC-PapersOnLine, 2019, 52, 649-654.	0.5	3
186	Design of modified 2-degree-of-freedom proportionalâ€“integralâ€“derivative controller for unstable processes. Measurement and Control, 2020, 53, 1465-1471.	0.9	3
187	A more general incremental inter-agent learning adaptive control for multiple identical processes in mass production. Neurocomputing, 2020, 397, 70-93.	3.5	3
188	Spectra calibration modeling and statistical analysis for cumulative quality interpretation and prediction. AICHE Journal, 2012, 58, 466-479.	1.8	2
189	â€˜State DÃ©jÃ vuâ€™ inter-agent learning adaptive control framework. IFAC-PapersOnLine, 2016, 49, 984-989.	0.5	2
190	Genetic-Algorithm-Optimization-Based Infinite Horizon Linear Quadratic Control for Injection Molding Batch Processes with Uncertainty. Industrial & Engineering Chemistry Research, 2018, 57, 17462-17469.	1.8	2
191	An incremental Inter-agent learning method for adaptive control of multiple identical processes in mass production. Neurocomputing, 2018, 315, 322-344.	3.5	2
192	Control-Oriented Two-Dimensional Online System Identification for Batch Processes. Industrial & Engineering Chemistry Research, 2021, 60, 7656-7666.	1.8	2
193	Guaranteed Cost Iterative Learning Control for Multi-Phase Batch Processes. Journal of Shanghai Jiaotong University (Science), 2018, 23, 811-819.	0.5	1
194	A tube feedback iterative learning control for batch processes. IFAC-PapersOnLine, 2018, 51, 785-790.	0.5	1
195	Optimal iterative learning control with uncertain initializations and disturbances. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 371-376.	0.4	0
196	Bound estimation for solutions of a class of delay differential inequalities. Nonlinear Analysis: Theory, Methods & Applications, 2002, 49, 525-533.	0.6	0
197	Multi-stage Process Analysis and Modelling based Online Monitoring for Chip Packaging Process. IFAC-PapersOnLine, 2015, 48, 993-998.	0.5	0
198	Learning of Iterative Learning Control for Flexible Manufacturing of Batch Processes. ACS Omega, 0, , .	1.6	0