

Chunhui Zhao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200
papers

3,661
citations

35
h-index

50
g-index

252
ext. papers

4,856
ext. citations

4.4
avg, IF

6.89
L-index

#	Paper	IF	Citations
200	Stage-based soft-transition multiple PCA modeling and on-line monitoring strategy for batch processes. <i>Journal of Process Control</i> , 2007 , 17, 728-741	3.9	137
199	A full-condition monitoring method for nonstationary dynamic chemical processes with cointegration and slow feature analysis. <i>AIChE Journal</i> , 2018 , 64, 1662-1681	3.6	128
198	Fault-relevant Principal Component Analysis (FPCA) method for multivariate statistical modeling and process monitoring. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 133, 1-16	3.8	104
197	Sparse Exponential Discriminant Analysis and Its Application to Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 5931-5940	8.9	81
196	Slow-Feature-Analysis-Based Batch Process Monitoring With Comprehensive Interpretation of Operation Condition Deviation and Dynamic Anomaly. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 3773-3783	8.9	79
195	Dynamic Distributed Monitoring Strategy for Large-Scale Nonstationary Processes Subject to Frequently Varying Conditions Under Closed-Loop Control. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 4749-4758	8.9	78
194	Broad Convolutional Neural Network Based Industrial Process Fault Diagnosis With Incremental Learning Capability. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 5081-5091	8.9	77
193	Statistical analysis and online monitoring for multimode processes with between-mode transitions. <i>Chemical Engineering Science</i> , 2010 , 65, 5961-5975	4.4	74
192	Linearity Evaluation and Variable Subset Partition Based Hierarchical Process Modeling and Monitoring. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 2683-2692	8.9	70
191	Recursive Exponential Slow Feature Analysis for Fine-Scale Adaptive Processes Monitoring With Comprehensive Operation Status Identification. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 3311-3323	11.9	69
190	. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 842-854	4.8	68
189	Step-wise sequential phase partition (SSPP) algorithm based statistical modeling and online process monitoring. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013 , 125, 109-120	3.8	67
188	Nonlinear Batch Process Monitoring Using Phase-Based Kernel-Independent Component Analysis Principal Component Analysis (KICABCA). <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9163-9174	3.9	63
187	Robust Monitoring and Fault Isolation of Nonlinear Industrial Processes Using Denoising Autoencoder and Elastic Net. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1083-1091	4.8	62
186	Quality prediction based on phase-specific average trajectory for batch processes. <i>AIChE Journal</i> , 2008 , 54, 693-705	3.6	55
185	Enhanced Random Forest With Concurrent Analysis of Static and Dynamic Nodes for Industrial Fault Classification. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 54-66	11.9	52
184	Nonlinear process monitoring based on kernel dissimilarity analysis. <i>Control Engineering Practice</i> , 2009 , 17, 221-230	3.9	50

183	A Fine-Grained Adversarial Network Method for Cross-Domain Industrial Fault Diagnosis. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 1432-1442	4.9	48
182	Fault Subspace Selection Approach Combined With Analysis of Relative Changes for Reconstruction Modeling and Multifault Diagnosis. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 928-939	4.8	47
181	Association of Levels of Physical Activity With Risk of Parkinson Disease: A Systematic Review and Meta-analysis. <i>JAMA Network Open</i> , 2018 , 1, e182421	10.4	46
180	Multispace Total Projection to Latent Structures and its Application to Online Process Monitoring. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 868-883	4.8	45
179	A sparse dissimilarity analysis algorithm for incipient fault isolation with no priori fault information. <i>Control Engineering Practice</i> , 2017 , 65, 70-82	3.9	45
178	Adaptive Monitoring Based on Independent Component Analysis for Multiphase Batch Processes with Limited Modeling Data. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3104-3113	3.9	45
177	Fault Description Based Attribute Transfer for Zero-Sample Industrial Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 1852-1862	11.9	45
176	Pseudo Time-Slice Construction Using a Variable Moving Window k Nearest Neighbor Rule for Sequential Uneven Phase Division and Batch Process Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 728-740	3.9	44
175	Statistical analysis and online monitoring for handling multiphase batch processes with varying durations. <i>Journal of Process Control</i> , 2011 , 21, 817-829	3.9	44
174	A Sparse Reconstruction Strategy for Online Fault Diagnosis in Nonstationary Processes with No a Priori Fault Information. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6993-7008	3.9	43
173	A Quality-Relevant Sequential Phase Partition Approach for Regression Modeling and Quality Prediction Analysis in Manufacturing Processes. <i>IEEE Transactions on Automation Science and Engineering</i> , 2014 , 11, 983-991	4.9	43
172	Dissimilarity analysis based batch process monitoring using moving windows. <i>AIChE Journal</i> , 2007 , 53, 1267-1277	3.6	42
171	Adaptive Monitoring Method for Batch Processes Based on Phase Dissimilarity Updating with Limited Modeling Data. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 4943-4953	3.9	41
170	Predicting subcutaneous glucose concentration using a latent-variable-based statistical method for type 1 diabetes mellitus. <i>Journal of Diabetes Science and Technology</i> , 2012 , 6, 617-33	4.1	40
169	Improved Batch Process Monitoring and Quality Prediction Based on Multiphase Statistical Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 835-849	3.9	40
168	Online Fault Diagnosis for Industrial Processes With Bayesian Network-Based Probabilistic Ensemble Learning Strategy. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 1922-1932	4.9	38
167	Online Fault Diagnosis in Industrial Processes Using Multimodel Exponential Discriminant Analysis Algorithm. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1317-1325	4.8	37
166	Geniposide ameliorates cognitive deficits by attenuating the cholinergic defect and amyloidosis in middle-aged Alzheimer model mice. <i>Neuropharmacology</i> , 2017 , 116, 18-29	5.5	36

165	Concurrent phase partition and between-mode statistical analysis for multimode and multiphase batch process monitoring. <i>AIChE Journal</i> , 2014 , 60, 559-573	3.6	35
164	Two-directional concurrent strategy of mode identification and sequential phase division for multimode and multiphase batch process monitoring with uneven lengths. <i>Chemical Engineering Science</i> , 2018 , 178, 104-117	4.4	34
163	An improved independent component regression modeling and quantitative calibration procedure. <i>AIChE Journal</i> , 2010 , 56, 1519-1535	3.6	34
162	An iterative two-step sequential phase partition (ITSP) method for batch process modeling and online monitoring. <i>AIChE Journal</i> , 2016 , 62, 2358-2373	3.6	34
161	A nested-loop Fisher discriminant analysis algorithm. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015 , 146, 396-406	3.8	33
160	Simultaneous Static and Dynamic Analysis for Fine-Scale Identification of Process Operation Statuses. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 5320-5329	11.9	33
159	Microbial community structure and metabolic property of biofilms in vermifiltration for liquid-state sludge stabilization using PLFA profiles. <i>Bioresour. Technol.</i> , 2014 , 151, 340-6	11	31
158	A new soft-sensor algorithm with concurrent consideration of slowness and quality interpretation for dynamic chemical process. <i>Chemical Engineering Science</i> , 2019 , 199, 28-39	4.4	30
157	Online fault prognosis with relative deviation analysis and vector autoregressive modeling. <i>Chemical Engineering Science</i> , 2015 , 138, 531-543	4.4	29
156	Vision-based UAV collision avoidance with 2D dynamic safety envelope. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2016 , 31, 16-26	2.4	29
155	Incipient Fault Detection for Multiphase Batch Processes With Limited Batches. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 103-117	4.8	29
154	Stationarity test and Bayesian monitoring strategy for fault detection in nonlinear multimode processes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017 , 168, 45-61	3.8	29
153	Enhancement stabilization of heavy metals (Zn, Pb, Cr and Cu) during vermifiltration of liquid-state sludge. <i>Bioresour. Technol.</i> , 2013 , 146, 649-655	11	29
152	Comprehensive Subspace Decomposition with Analysis of Between-Mode Relative Changes for Multimode Process Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3154-3166	3.9	27
151	Statistical analysis based online sensor failure detection for continuous glucose monitoring in type I diabetes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015 , 144, 128-137	3.8	27
150	Efficient faulty variable selection and parsimonious reconstruction modelling for fault isolation. <i>Journal of Process Control</i> , 2016 , 38, 31-41	3.9	26
149	Probabilistic Fault Diagnosis Based on Monte Carlo and Nested-Loop Fisher Discriminant Analysis for Industrial Processes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12896-12908	3.9	26
148	Improved calibration investigation using phase-wise local and cumulative quality interpretation and prediction. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009 , 95, 107-121	3.8	25

147	Subspace decomposition approach of fault deviations and its application to fault reconstruction. <i>Control Engineering Practice</i> , 2013 , 21, 1396-1409	3.9	24
146	A Multiple-Time-Region (MTR)-Based Fault Subspace Decomposition and Reconstruction Modeling Strategy for Online Fault Diagnosis. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11207-11217	3.9	24
145	Rapid model identification for online subcutaneous glucose concentration prediction for new subjects with type I diabetes. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 1333-44	5	23
144	Recursive cointegration analytics for adaptive monitoring of nonstationary industrial processes with both static and dynamic variations. <i>Journal of Process Control</i> , 2020 , 92, 319-332	3.9	23
143	Subspace decomposition and critical phase selection based cumulative quality analysis for multiphase batch processes. <i>Chemical Engineering Science</i> , 2017 , 166, 130-143	4.4	22
142	Incipient Fault Detection for Complex Industrial Processes with Stationary and Nonstationary Hybrid Characteristics. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5045-5057	3.9	22
141	Berberine modulates amyloid- β peptide generation by activating AMP-activated protein kinase. <i>Neuropharmacology</i> , 2017 , 125, 408-417	5.5	22
140	Inner-Phase Analysis Based Statistical Modeling and Online Monitoring for Uneven Multiphase Batch Processes. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 4586-4596	3.9	22
139	Mode-cloud data analytics based transfer learning for soft sensor of manufacturing industry with incremental learning ability. <i>Control Engineering Practice</i> , 2020 , 98, 104392	3.9	21
138	Towards understanding the stabilization process in vermicomposting using PARAFAC analysis of fluorescence spectra. <i>Chemosphere</i> , 2014 , 117, 216-22	8.4	21
137	Online monitoring of performance variations and process dynamic anomalies with performance-relevant full decomposition of slow feature analysis. <i>Journal of Process Control</i> , 2019 , 80, 89-102	3.9	20
136	Sequential Time Slice Alignment Based Unequal-Length Phase Identification and Modeling for Fault Detection of Irregular Batches. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 10020-10030	3.9	19
135	Phase analysis and statistical modeling with limited batches for multimode and multiphase process monitoring. <i>Journal of Process Control</i> , 2014 , 24, 856-870	3.9	19
134	Probabilistic fault diagnosis method based on the combination of nest-loop fisher discriminant analysis and analysis of relative changes. <i>Control Engineering Practice</i> , 2017 , 68, 32-45	3.9	19
133	Fault Diagnosis With Dual Cointegration Analysis of Common and Specific Nonstationary Fault Variations. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 237-247	4.9	19
132	Stationary Subspace Analysis-Based Hierarchical Model for Batch Processes Monitoring. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 444-453	4.8	19
131	Online prediction of subcutaneous glucose concentration for type 1 diabetes using empirical models and frequency-band separation. <i>AIChE Journal</i> , 2014 , 60, 574-584	3.6	18
130	Interindividual glucose dynamics in different frequency bands for online prediction of subcutaneous glucose concentration in type 1 diabetic subjects. <i>AIChE Journal</i> , 2013 , 59, 4228-4240	3.6	18

129	Geniposide Alleviates Amyloid-Induced Synaptic Injury by Protecting Axonal Mitochondrial Trafficking. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 309	6.1	18
128	Enhanced Process Comprehension and Statistical Analysis for Slow-Varying Batch Processes. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 9996-10008	3.9	18
127	110th Anniversary: An Overview on Learning-Based Model Predictive Control for Batch Processes. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 17164-17173	3.9	17
126	Hybrid independent component analysis (H-ICA) with simultaneous analysis of high-order and second-order statistics for industrial process monitoring. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019 , 185, 47-58	3.8	17
125	Comprehensive process decomposition for closed-loop process monitoring with quality-relevant slow feature analysis. <i>Journal of Process Control</i> , 2019 , 77, 141-154	3.9	16
124	Between-phase-based statistical analysis and modeling for transition monitoring in multiphase batch processes. <i>AIChE Journal</i> , 2012 , 58, 2682-2696	3.6	16
123	Total Variable Decomposition Based on Sparse Cointegration Analysis for Distributed Monitoring of Nonstationary Industrial Processes. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1542-1549	4.8	16
122	Feeding behavior and trophic relationship of earthworms and other predators in vermifiltration system for liquid-state sludge stabilization using fatty acid profiles. <i>Bioresource Technology</i> , 2014 , 169, 149-154	11	14
121	Comprehensive subspace decomposition and isolation of principal reconstruction directions for online fault diagnosis. <i>Journal of Process Control</i> , 2013 , 23, 1515-1527	3.9	14
120	Low-Rank Characteristic and Temporal Correlation Analytics for Incipient Industrial Fault Detection With Missing Data. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 6337-6346	11.9	14
119	Multiclass Oblique Random Forests With Dual-Incremental Learning Capacity. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 5192-5203	10.3	13
118	Quality-relevant fault diagnosis with concurrent phase partition and analysis of relative changes for multiphase batch processes. <i>AIChE Journal</i> , 2014 , 60, 2048-2062	3.6	13
117	Distributed Dynamic Modeling and Monitoring for Large-Scale Industrial Processes under Closed-Loop Control. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 15759-15772	3.9	13
116	Reconstruction based fault diagnosis using concurrent phase partition and analysis of relative changes for multiphase batch processes with limited fault batches. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 130, 135-150	3.8	12
115	Phase Transition Analysis Based Quality Prediction for Multi-phase Batch Processes. <i>Chinese Journal of Chemical Engineering</i> , 2012 , 20, 1191-1197	3.2	12
114	Batch-to-Batch Steady State Identification Based on Variable Correlation and Mahalanobis Distance. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 11060-11070	3.9	12
113	Multiple order model migration and optimal model selection for online glucose prediction in Type 1 diabetes. <i>AIChE Journal</i> , 2018 , 64, 822-834	3.6	11
112	A slow independent component analysis algorithm for time series feature extraction with the concurrent consideration of high-order statistic and slowness. <i>Journal of Process Control</i> , 2019 , 84, 1-12	3.9	11

111	Between-Mode Quality Analysis Based Multimode Batch Process Quality Prediction. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15629-15638	3.9	11
110	Improved Knowledge Extraction and Phase-Based Quality Prediction for Batch Processes. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 825-834	3.9	11
109	Hybrid fault characteristics decomposition based probabilistic distributed fault diagnosis for large-scale industrial processes. <i>Control Engineering Practice</i> , 2019 , 84, 377-388	3.9	11
108	Condition-Driven Data Analytics and Monitoring for Wide-Range Nonstationary and Transient Continuous Processes. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-12	4.9	11
107	Between-phase calibration modeling and transition analysis for phase-based quality interpretation and prediction. <i>AIChE Journal</i> , 2013 , 59, 108-119	3.6	10
106	Two-step Multiset Regression Analysis (MsRA) Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1337-1354	3.9	10
105	Enhanced canonical variate analysis with slow feature for dynamic process status analytics. <i>Journal of Process Control</i> , 2020 , 95, 10-31	3.9	10
104	An intelligent non-optimality self-recovery method based on reinforcement learning with small data in big data era. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018 , 176, 89-100	3.8	9
103	Inter-batch-evolution-traced process monitoring based on inter-batch mode division for multiphase batch processes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 138, 178-192	3.8	9
102	Multimode and Multiphase Batch Processes Understanding and Monitoring Based on between-Mode Similarity Evaluation and Multimode Discriminative Information Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9679-9690	3.9	9
101	Meticulous Assessment of Operating Performance for Processes with a Hybrid of Stationary and Nonstationary Variables. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1341-1351	3.9	9
100	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2294-2303	8.9	9
99	Concurrent Assessment of Process Operating Performance With Joint Static and Dynamic Analysis. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 2776-2786	11.9	9
98	Multisource-Refined Transfer Network for Industrial Fault Diagnosis Under Domain and Category Inconsistencies. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	9
97	Linearity Decomposition-Based Cointegration Analysis for Nonlinear and Nonstationary Process Performance Assessment. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 3052-3063	3.9	8
96	Regression modeling and quality prediction for multiphase batch processes with inner-phase analysis. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 135, 1-16	3.8	8
95	Statistical modeling and online fault detection for multiphase batch processes with analysis of between-phase relative changes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 130, 58-67	3.8	8
94	Unmanned combat aerial vehicles path planning using a novel probability density model based on Artificial Bee Colony algorithm 2013 ,		8

93	Root Cause Diagnosis of Oscillation-Type Plant Faults Using Nonlinear Causality Analysis. <i>IFAC-PapersOnLine</i> , 2017 , 50, 13898-13903	0.7	8
92	MoniNet With Concurrent Analytics of Temporal and Spatial Information for Fault Detection in Industrial Processes. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	8
91	Exponential Stationary Subspace Analysis for Stationary Feature Analytics and Adaptive Nonstationary Process Monitoring. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 8345-8356	11.9	8
90	Subspace Decomposition-Based Reconstruction Modeling for Fault Diagnosis in Multiphase Batch Processes. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 14613-14626	3.9	7
89	Multiblock-Based Qualitative and Quantitative Spectral Calibration Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 8694-8704	3.9	7
88	Dual Attention-Based Encoder-Decoder: A Customized Sequence-to-Sequence Learning for Soft Sensor Development. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 3306-3317	10.3	7
87	A Machine Vision-based Realtime Anomaly Detection Method for Industrial Products Using Deep Learning 2019 ,		7
86	A Deep Probabilistic Transfer Learning Framework for Soft Sensor Modeling With Missing Data. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	7
85	Concurrent analysis of variable correlation and data distribution for monitoring large-scale processes under varying operation conditions. <i>Neurocomputing</i> , 2019 , 349, 225-238	5.4	6
84	Enhanced process comprehension and quality analysis based on subspace separation for multiphase batch processes. <i>AIChE Journal</i> , 2011 , 57, 388-403	3.6	6
83	An automatic glucose monitoring signal denoising method with noise level estimation and responsive filter updating. <i>Biomedical Signal Processing and Control</i> , 2018 , 41, 172-185	4.9	6
82	BNGBS: An efficient network boosting system with triple incremental learning capabilities for more nodes, samples, and classes. <i>Neurocomputing</i> , 2020 , 412, 486-501	5.4	6
81	Multichannel Diffusion Graph Convolutional Network for the Prediction of Endpoint Composition in the Converter Steelmaking Process. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-13	5.2	6
80	Latent variable based concurrent multi-trends analysis method for monitoring batch processes with irregular and limited batches. <i>Canadian Journal of Chemical Engineering</i> , 2017 , 95, 1817-1829	2.3	5
79	Rapid Model Identification for Online Glucose Prediction of New Subjects With Type 1 Diabetes Using Model Migration Method. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 2094-2099		5
78	Variants of slow feature analysis framework for automatic detection and isolation of multiple oscillations in coupled control loops. <i>Computers and Chemical Engineering</i> , 2020 , 141, 107029	4	5
77	Concurrent static and dynamic dissimilarity analytics for fine-scale evaluation of process data distributions. <i>Control Engineering Practice</i> , 2020 , 103, 104572	3.9	5
76	A Gaussian Feature Analytics-Based DISSIM Method for Fine-Grained Non-Gaussian Process Monitoring. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020 , 17, 2175-2181	4.9	5

75	Fine-Scale Online Evaluation of Glycemic Control Performance Based on Temporal Feature Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4374-4386	3.9	4
74	Simultaneously multi-UAV mapping and control with visual servoing 2015 ,		4
73	Multiphase calibration modeling and quality interpretation by priority sorting. <i>Chemical Engineering Science</i> , 2011 , 66, 5400-5409	4.4	4
72	Transfer Increment for Generalized Zero-Shot Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 2506-2520	10.3	4
71	Variational Progressive-Transfer Network for Soft Sensing of Multirate Industrial Processes. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	4
70	An Intelligent Human Activity Recognition Method with Incremental Learning Capability for Bedridden Patients 2018 ,		4
69	Control Performance Monitoring with Temporal Features and Dissimilarity Analysis for Nonstationary Dynamic Processes. <i>IFAC-PapersOnLine</i> , 2018 , 51, 357-362	0.7	4
68	Section Division and Multi-model Method for Early Detection of Icing on Wind Turbine Blades 2019 ,		3
67	A concurrent fault and meal detection method based on dynamics analysis for continuous glucose monitoring sensor. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2019 , 189, 72-80	3.8	3
66	A probabilistic soft alert method for abnormal glycemic event by quantitative analysis of prediction uncertainty for type 1 diabetes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018 , 174, 94-110	3.8	3
65	Spectra data analysis and calibration modeling method using spectra subspace separation and multiblock independent component regression strategy. <i>AIChE Journal</i> , 2011 , 57, 1202-1215	3.6	3
64	Multiple Kernel Based Transfer Learning for the Few-Shot Recognition Task in Smart Home Scene. <i>IFAC-PapersOnLine</i> , 2020 , 53, 17101-17106	0.7	3
63	Retrospective comparison of several typical linear dynamic latent variable models for industrial process monitoring. <i>Computers and Chemical Engineering</i> , 2021 , 157, 107587	4	3
62	Concurrent analytics of temporal information and local correlation for meticulous quality prediction of industrial processes. <i>Journal of Process Control</i> , 2021 , 107, 47-57	3.9	3
61	Fine-Scale Modeling and Monitoring of Wide-Range Nonstationary Batch Processes With Dynamic Analytics. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8808-8818	8.9	3
60	Broad Learning System Based Visual Fault Diagnosis for Electrical Equipment Thermography Images 2018 ,		3
59	A sparse fault degradation oriented fisher discriminant analysis (FDFDA) algorithm for faulty variable isolation and its industrial application. <i>Control Engineering Practice</i> , 2019 , 90, 311-320	3.9	2
58	Spectra calibration modeling and statistical analysis for cumulative quality interpretation and prediction. <i>AIChE Journal</i> , 2012 , 58, 466-479	3.6	2

57	Sparse dissimilarity analysis based on distribution dissimilarity decomposition for online diagnosis of incipient faults 2017 ,		2
56	A Two-step Parallel Phase Partition Algorithm for Monitoring Multiphase Batch Processes with Limited Batches. <i>IFAC-PapersOnLine</i> , 2017 , 50, 2750-2755	0.7	2
55	Automatic and online fault detection of sensor problems using continuous glucose monitoring data for type 1 diabetes 2014 ,		2
54	A bidirectional between-set statistical analysis method and its applications. <i>AIChE Journal</i> , 2011 , 57, 1233-1249	3.6	2
53	Covariance-oriented qualitative and quantitative calibration analysis for multistage batch processes. <i>Canadian Journal of Chemical Engineering</i> , 2009 , 87, 466-476	2.3	2
52	Adversarial smoothing tri-regression for robust semi-supervised industrial soft sensor. <i>Journal of Process Control</i> , 2021 , 108, 86-97	3.9	2
51	Fault-Prototypical Adapted Network for Cross-Domain Industrial Intelligent Diagnosis. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-10	4.9	2
50	Causal network construction based on convergent cross mapping (CCM) for alarm system root cause tracing of nonlinear industrial process. <i>IFAC-PapersOnLine</i> , 2020 , 53, 13619-13624	0.7	2
49	A probabilistic framework with concurrent analytics of Gaussian process regression and classification for multivariate control performance assessment. <i>Journal of Process Control</i> , 2021 , 101, 78-92	3.9	2
48	An Automatic Denoising Method with Estimation of Noise Level and Detection of Noise Variability in Continuous Glucose Monitoring. <i>IFAC-PapersOnLine</i> , 2016 , 49, 785-790	0.7	2
47	A classification-based fault detection method for Continuous glucose monitoring (CGM) 2016 ,		2
46	Online Probabilistic Estimation of Sensor Faulty Signal in Industrial Processes and Its Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8853-8862	8.9	2
45	Deep Transfer Learning based Multisource Adaptation Fault Diagnosis Network for Industrial Processes. <i>IFAC-PapersOnLine</i> , 2021 , 54, 49-54	0.7	2
44	Single Model-Based Analysis of Relative Causal Changes for Root-Cause Diagnosis in Complex Industrial Processes. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12602-12613	3.9	2
43	SFNet: A slow feature extraction network for parallel linear and nonlinear dynamic process monitoring. <i>Neurocomputing</i> , 2022 , 488, 359-380	5.4	2
42	Optimal load distribution based on maximization of comprehensive economic benefit in power plant 2015 ,		1
41	Sparse analysis based fault deviations modeling and its application to fault diagnosis 2017 ,		1
40	Quality-relevant iterative relative analysis based sub-phase modeling for multiphase batch process monitoring 2014 ,		1

39	A sub-principal component of fault detection (PCFD) modeling method and its application to online fault diagnosis 2013 ,		1
38	An effective fault detection method with FDA classifier and global model for continuous glucose monitor (CGM) 2017 ,		1
37	Blood glucose control based on rapid model identification with particle swarm optimization method 2017 ,		1
36	Fault subspace selection and analysis of relative changes based reconstruction modeling for multi-fault diagnosis 2014 ,		1
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