Chunhui Zhao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2516599/publications.pdf Version: 2024-02-01



Снимни 7на

#	Article	IF	CITATIONS
1	A full ondition monitoring method for nonstationary dynamic chemical processes with cointegration and slow feature analysis. AICHE Journal, 2018, 64, 1662-1681.	1.8	199
2	Stage-based soft-transition multiple PCA modeling and on-line monitoring strategy for batch processes. Journal of Process Control, 2007, 17, 728-741.	1.7	177
3	Broad Convolutional Neural Network Based Industrial Process Fault Diagnosis With Incremental Learning Capability. IEEE Transactions on Industrial Electronics, 2020, 67, 5081-5091.	5.2	154
4	Fault Description Based Attribute Transfer for Zero-Sample Industrial Fault Diagnosis. IEEE Transactions on Industrial Informatics, 2021, 17, 1852-1862.	7.2	149
5	Fault-relevant Principal Component Analysis (FPCA) method for multivariate statistical modeling and process monitoring. Chemometrics and Intelligent Laboratory Systems, 2014, 133, 1-16.	1.8	132
6	Slow-Feature-Analysis-Based Batch Process Monitoring With Comprehensive Interpretation of Operation Condition Deviation and Dynamic Anomaly. IEEE Transactions on Industrial Electronics, 2019, 66, 3773-3783.	5.2	126
7	Robust Monitoring and Fault Isolation of Nonlinear Industrial Processes Using Denoising Autoencoder and Elastic Net. IEEE Transactions on Control Systems Technology, 2020, 28, 1083-1091.	3.2	123
8	Dynamic Distributed Monitoring Strategy for Large-Scale Nonstationary Processes Subject to Frequently Varying Conditions Under Closed-Loop Control. IEEE Transactions on Industrial Electronics, 2019, 66, 4749-4758.	5.2	119
9	Sparse Exponential Discriminant Analysis and Its Application to Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2018, 65, 5931-5940.	5.2	115
10	Enhanced Random Forest With Concurrent Analysis of Static and Dynamic Nodes for Industrial Fault Classification. IEEE Transactions on Industrial Informatics, 2020, 16, 54-66.	7.2	115
11	Recursive Exponential Slow Feature Analysis for Fine-Scale Adaptive Processes Monitoring With Comprehensive Operation Status Identification. IEEE Transactions on Industrial Informatics, 2019, 15, 3311-3323.	7.2	108
12	A Fine-Grained Adversarial Network Method for Cross-Domain Industrial Fault Diagnosis. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1432-1442.	3.4	105
13	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
14	Linearity Evaluation and Variable Subset Partition Based Hierarchical Process Modeling and Monitoring. IEEE Transactions on Industrial Electronics, 2018, 65, 2683-2692.	5.2	98
15	Association of Levels of Physical Activity With Risk of Parkinson Disease. JAMA Network Open, 2018, 1, e182421.	2.8	94
16	Step-wise sequential phase partition (SSPP) algorithm based statistical modeling and online process monitoring. Chemometrics and Intelligent Laboratory Systems, 2013, 125, 109-120.	1.8	92
17	Statistical analysis and online monitoring for multimode processes with between-mode transitions. Chemical Engineering Science, 2010, 65, 5961-5975.	1.9	87
18	Nonlinear Batch Process Monitoring Using Phase-Based Kernel-Independent Component Analysisâ ``Principal Component Analysis (KICAâ ``PCA). Industrial & Engineering Chemistry Research, 2009, 48, 9163-9174.	1.8	75

#	Article	IF	CITATIONS
19	Online Fault Diagnosis for Industrial Processes With Bayesian Network-Based Probabilistic Ensemble Learning Strategy. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1922-1932.	3.4	67
20	Online Fault Diagnosis in Industrial Processes Using Multimodel Exponential Discriminant Analysis Algorithm. IEEE Transactions on Control Systems Technology, 2019, 27, 1317-1325.	3.2	65
21	A Quality-Relevant Sequential Phase Partition Approach for Regression Modeling and Quality Prediction Analysis in Manufacturing Processes. IEEE Transactions on Automation Science and Engineering, 2014, 11, 983-991.	3.4	63
22	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
23	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
24	Pseudo Time-Slice Construction Using a Variable Moving Window <i>k</i> Nearest Neighbor Rule for Sequential Uneven Phase Division and Batch Process Monitoring. Industrial & Engineering Chemistry Research, 2017, 56, 728-740.	1.8	62
25	Quality prediction based on phaseâ€specific average trajectory for batch processes. AICHE Journal, 2008, 54, 693-705.	1.8	61
26	Simultaneous Static and Dynamic Analysis for Fine-Scale Identification of Process Operation Statuses. IEEE Transactions on Industrial Informatics, 2019, 15, 5320-5329.	7.2	61
27	A sparse dissimilarity analysis algorithm for incipient fault isolation with no priori fault information. Control Engineering Practice, 2017, 65, 70-82.	3.2	60
28	Nonlinear process monitoring based on kernel dissimilarity analysis. Control Engineering Practice, 2009, 17, 221-230.	3.2	57
29	Adaptive Monitoring Based on Independent Component Analysis for Multiphase Batch Processes with Limited Modeling Data. Industrial & Engineering Chemistry Research, 2008, 47, 3104-3113.	1.8	56
30	Multispace Total Projection to Latent Structures and its Application to Online Process Monitoring. IEEE Transactions on Control Systems Technology, 2014, 22, 868-883.	3.2	55
31	A nested-loop Fisher discriminant analysis algorithm. Chemometrics and Intelligent Laboratory Systems, 2015, 146, 396-406.	1.8	55
32	Predicting Subcutaneous Glucose Concentration Using a Latent-Variable-Based Statistical Method for Type 1 Diabetes Mellitus. Journal of Diabetes Science and Technology, 2012, 6, 617-633.	1.3	53
33	Statistical analysis and online monitoring for handling multiphase batch processes with varying durations. Journal of Process Control, 2011, 21, 817-829.	1.7	51
34	Perspectives on nonstationary process monitoring in the era of industrial artificial intelligence. Journal of Process Control, 2022, 116, 255-272.	1.7	51
35	Dissimilarity analysis based batch process monitoring using moving windows. AICHE Journal, 2007, 53, 1267-1277.	1.8	50
36	Adaptive Monitoring Method for Batch Processes Based on Phase Dissimilarity Updating with Limited Modeling Data. Industrial & Engineering Chemistry Research, 2007, 46, 4943-4953.	1.8	49

#	Article	IF	CITATIONS
37	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
38	Improved Batch Process Monitoring and Quality Prediction Based on Multiphase Statistical Analysis. Industrial & Engineering Chemistry Research, 2008, 47, 835-849.	1.8	48
39	Geniposide ameliorates cognitive deficits by attenuating the cholinergic defect and amyloidosis in middle-aged Alzheimer model mice. Neuropharmacology, 2017, 116, 18-29.	2.0	47
40	A Deep Probabilistic Transfer Learning Framework for Soft Sensor Modeling With Missing Data. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7598-7609.	7.2	47
41	Stationarity test and Bayesian monitoring strategy for fault detection in nonlinear multimode processes. Chemometrics and Intelligent Laboratory Systems, 2017, 168, 45-61.	1.8	46
42	Concurrent phase partition and betweenâ€mode statistical analysis for multimode and multiphase batch process monitoring. AICHE Journal, 2014, 60, 559-573.	1.8	45
43	An iterative twoâ€step sequential phase partition (ITSPP) method for batch process modeling and online monitoring. AICHE Journal, 2016, 62, 2358-2373.	1.8	44
44	Recursive cointegration analytics for adaptive monitoring of nonstationary industrial processes with both static and dynamic variations. Journal of Process Control, 2020, 92, 319-332.	1.7	44
45	Dual Attention-Based Encoder–Decoder: A Customized Sequence-to-Sequence Learning for Soft Sensor Development. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3306-3317.	7.2	43
46	Berberine modulates amyloid-β peptide generation by activating AMP-activated protein kinase. Neuropharmacology, 2017, 125, 408-417.	2.0	42
47	Incipient Fault Detection for Multiphase Batch Processes With Limited Batches. IEEE Transactions on Control Systems Technology, 2019, 27, 103-117.	3.2	42
48	A new soft-sensor algorithm with concurrent consideration of slowness and quality interpretation for dynamic chemical process. Chemical Engineering Science, 2019, 199, 28-39.	1.9	42
49	Stationary Subspace Analysis-Based Hierarchical Model for Batch Processes Monitoring. IEEE Transactions on Control Systems Technology, 2021, 29, 444-453.	3.2	42
50	Fault Diagnosis With Dual Cointegration Analysis of Common and Specific Nonstationary Fault Variations. IEEE Transactions on Automation Science and Engineering, 2020, 17, 237-247.	3.4	40
51	Multisource-Refined Transfer Network for Industrial Fault Diagnosis Under Domain and Category Inconsistencies. IEEE Transactions on Cybernetics, 2022, 52, 9784-9796.	6.2	40
52	An improved independent component regression modeling and quantitative calibration procedure. AICHE Journal, 2010, 56, 1519-1535.	1.8	39
53	Condition-Driven Data Analytics and Monitoring for Wide-Range Nonstationary and Transient Continuous Processes. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1563-1574.	3.4	39
54	Comprehensive Subspace Decomposition with Analysis of Between-Mode Relative Changes for Multimode Process Monitoring. Industrial & Engineering Chemistry Research, 2015, 54, 3154-3166.	1.8	38

#	Article	IF	CITATIONS
55	Vision-based UAV collision avoidance with 2D dynamic safety envelope. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 16-26.	2.3	38
56	Multiclass Oblique Random Forests With Dual-Incremental Learning Capacity. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5192-5203.	7.2	38
57	Microbial community structure and metabolic property of biofilms in vermifiltration for liquid-state sludge stabilization using PLFA profiles. Bioresource Technology, 2014, 151, 340-346.	4.8	37
58	Enhancement stabilization of heavy metals (Zn, Pb, Cr and Cu) during vermifiltration of liquid-state sludge. Bioresource Technology, 2013, 146, 649-655.	4.8	36
59	Online fault prognosis with relative deviation analysis and vector autoregressive modeling. Chemical Engineering Science, 2015, 138, 531-543.	1.9	36
60	MoniNet With Concurrent Analytics of Temporal and Spatial Information for Fault Detection in Industrial Processes. IEEE Transactions on Cybernetics, 2022, 52, 8340-8351.	6.2	36
61	Rapid Model Identification for Online Subcutaneous Glucose Concentration Prediction for New Subjects With Type I Diabetes. IEEE Transactions on Biomedical Engineering, 2015, 62, 1333-1344.	2.5	35
62	Mode-cloud data analytics based transfer learning for soft sensor of manufacturing industry with incremental learning ability. Control Engineering Practice, 2020, 98, 104392.	3.2	35
63	Probabilistic Monitoring of Correlated Sensors for Nonlinear Processes in State Space. IEEE Transactions on Industrial Electronics, 2020, 67, 2294-2303.	5.2	34
64	Online Probabilistic Estimation of Sensor Faulty Signal in Industrial Processes and Its Applications. IEEE Transactions on Industrial Electronics, 2021, 68, 8853-8862.	5.2	34
65	Online monitoring of performance variations and process dynamic anomalies with performance-relevant full decomposition of slow feature analysis. Journal of Process Control, 2019, 80, 89-102.	1.7	33
66	Hybrid independent component analysis (H-ICA) with simultaneous analysis of high-order and second-order statistics for industrial process monitoring. Chemometrics and Intelligent Laboratory Systems, 2019, 185, 47-58.	1.8	32
67	Concurrent Assessment of Process Operating Performance With Joint Static and Dynamic Analysis. IEEE Transactions on Industrial Informatics, 2020, 16, 2776-2786.	7.2	32
68	Subspace decomposition approach of fault deviations and its application to fault reconstruction. Control Engineering Practice, 2013, 21, 1396-1409.	3.2	31
69	Efficient faulty variable selection and parsimonious reconstruction modelling for fault isolation. Journal of Process Control, 2016, 38, 31-41.	1.7	31
70	Low-Rank Characteristic and Temporal Correlation Analytics for Incipient Industrial Fault Detection With Missing Data. IEEE Transactions on Industrial Informatics, 2021, 17, 6337-6346.	7.2	31
71	Improved calibration investigation using phase-wise local and cumulative quality interpretation and prediction. Chemometrics and Intelligent Laboratory Systems, 2009, 95, 107-121.	1.8	30
72	<i>110th Anniversary:</i> An Overview on Learning-Based Model Predictive Control for Batch Processes. Industrial & Engineering Chemistry Research, 2019, 58, 17164-17173.	1.8	30

#	Article	IF	CITATIONS
73	Comprehensive process decomposition for closed-loop process monitoring with quality-relevant slow feature analysis. Journal of Process Control, 2019, 77, 141-154.	1.7	30
74	Statistical analysis based online sensor failure detection for continuous glucose monitoring in type I diabetes. Chemometrics and Intelligent Laboratory Systems, 2015, 144, 128-137.	1.8	29
75	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
76	Incipient Fault Detection for Complex Industrial Processes with Stationary and Nonstationary Hybrid Characteristics. Industrial & Engineering Chemistry Research, 2018, 57, 5045-5057.	1.8	29
77	Total Variable Decomposition Based on Sparse Cointegration Analysis for Distributed Monitoring of Nonstationary Industrial Processes. IEEE Transactions on Control Systems Technology, 2020, 28, 1542-1549.	3.2	29
78	Enhanced canonical variate analysis with slow feature for dynamic process status analytics. Journal of Process Control, 2020, 95, 10-31.	1.7	29
79	Subspace decomposition and critical phase selection based cumulative quality analysis for multiphase batch processes. Chemical Engineering Science, 2017, 166, 130-143.	1.9	28
80	Exponential Stationary Subspace Analysis for Stationary Feature Analytics and Adaptive Nonstationary Process Monitoring. IEEE Transactions on Industrial Informatics, 2021, 17, 8345-8356.	7.2	28
81	Probabilistic fault diagnosis method based on the combination of nest-loop fisher discriminant analysis and analysis of relative changes. Control Engineering Practice, 2017, 68, 32-45.	3.2	27
82	Inner-Phase Analysis Based Statistical Modeling and Online Monitoring for Uneven Multiphase Batch Processes. Industrial & Engineering Chemistry Research, 2013, 52, 4586-4596.	1.8	26
83	Sequential Time Slice Alignment Based Unequal-Length Phase Identification and Modeling for Fault Detection of Irregular Batches. Industrial & Engineering Chemistry Research, 2015, 54, 10020-10030.	1.8	26
84	Variational Progressive-Transfer Network for Soft Sensing of Multirate Industrial Processes. IEEE Transactions on Cybernetics, 2022, 52, 12882-12892.	6.2	26
85	A Multiple-Time-Region (MTR)-Based Fault Subspace Decomposition and Reconstruction Modeling Strategy for Online Fault Diagnosis. Industrial & Engineering Chemistry Research, 2012, 51, 11207-11217.	1.8	25
86	Towards understanding the stabilization process in vermicomposting using PARAFAC analysis of fluorescence spectra. Chemosphere, 2014, 117, 216-222.	4.2	25
87	A slow independent component analysis algorithm for time series feature extraction with the concurrent consideration of high-order statistic and slowness. Journal of Process Control, 2019, 84, 1-12.	1.7	25
88	Enhanced Process Comprehension and Statistical Analysis for Slow-Varying Batch Processes. Industrial & Engineering Chemistry Research, 2008, 47, 9996-10008.	1.8	24
89	Online prediction of subcutaneous glucose concentration for type 1 diabetes using empirical models and frequencyâ€band separation. AICHE Journal, 2014, 60, 574-584.	1.8	24
90	Phase analysis and statistical modeling with limited batches for multimode and multiphase process monitoring. Journal of Process Control, 2014, 24, 856-870.	1.7	23

#	Article	IF	CITATIONS
91	Geniposide Alleviates Amyloid-Induced Synaptic Injury by Protecting Axonal Mitochondrial Trafficking. Frontiers in Cellular Neuroscience, 2016, 10, 309.	1.8	21
92	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
93	Interindividual glucose dynamics in different frequency bands for online prediction of subcutaneous glucose concentration in type 1 diabetic subjects. AICHE Journal, 2013, 59, 4228-4240.	1.8	20
94	Transfer Increment for Generalized Zero-Shot Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2506-2520.	7.2	20
95	FIGAN: A Missing Industrial Data Imputation Method Customized for Soft Sensor Application. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3712-3722.	3.4	20
96	SFNet: A slow feature extraction network for parallel linear and nonlinear dynamic process monitoring. Neurocomputing, 2022, 488, 359-380.	3.5	20
97	A Machine Vision-based Realtime Anomaly Detection Method for Industrial Products Using Deep Learning. , 2019, , .		19
98	Batch-to-Batch Steady State Identification Based on Variable Correlation and Mahalanobis Distance. Industrial & Engineering Chemistry Research, 2009, 48, 11060-11070.	1.8	18
99	Betweenâ€phaseâ€based statistical analysis and modeling for transition monitoring in multiphase batch processes. AICHE Journal, 2012, 58, 2682-2696.	1.8	18
100	Feeding behavior and trophic relationship of earthworms and other predators in vermifiltration system for liquid-state sludge stabilization using fatty acid profiles. Bioresource Technology, 2014, 169, 149-154.	4.8	18
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.	1.8	18
102	Hybrid fault characteristics decomposition based probabilistic distributed fault diagnosis for large-scale industrial processes. Control Engineering Practice, 2019, 84, 377-388.	3.2	18
103	Meticulous Assessment of Operating Performance for Processes with a Hybrid of Stationary and Nonstationary Variables. Industrial & Engineering Chemistry Research, 2019, 58, 1341-1351.	1.8	18
104	Retrospective comparison of several typical linear dynamic latent variable models for industrial process monitoring. Computers and Chemical Engineering, 2022, 157, 107587.	2.0	18
105	Phase Transition Analysis Based Quality Prediction for Multi-phase Batch Processes. Chinese Journal of Chemical Engineering, 2012, 20, 1191-1197.	1.7	17
106	Between-Mode Quality Analysis Based Multimode Batch Process Quality Prediction. Industrial & Engineering Chemistry Research, 2014, 53, 15629-15638.	1.8	17
107	Distributed Dynamic Modeling and Monitoring for Large-Scale Industrial Processes under Closed-Loop Control. Industrial & Engineering Chemistry Research, 2018, 57, 15759-15772.	1.8	17
108	Conditional discriminative autoencoder and condition-driven immediate representation of soft transition for monitoring complex nonstationary processes. Control Engineering Practice, 2022, 122, 105090.	3.2	17

#	Article	IF	CITATIONS
109	Comprehensive subspace decomposition and isolation of principal reconstruction directions for online fault diagnosis. Journal of Process Control, 2013, 23, 1515-1527.	1.7	16
110	Fault-Prototypical Adapted Network for Cross-Domain Industrial Intelligent Diagnosis. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3649-3658.	3.4	16
111	Qualityâ€relevant fault diagnosis with concurrent phase partition and analysis of relative changes for multiphase batch processes. AICHE Journal, 2014, 60, 2048-2062.	1.8	15
112	Fine-Scale Modeling and Monitoring of Wide-Range Nonstationary Batch Processes With Dynamic Analytics. IEEE Transactions on Industrial Electronics, 2021, 68, 8808-8818.	5.2	15
113	Multichannel Diffusion Graph Convolutional Network for the Prediction of Endpoint Composition in the Converter Steelmaking Process. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	15
114	Linear and nonlinear hierarchical multivariate time delay analytics for dynamic modeling and process monitoring. Journal of Process Control, 2021, 107, 83-93.	1.7	15
115	Adversarial smoothing tri-regression for robust semi-supervised industrial soft sensor. Journal of Process Control, 2021, 108, 86-97.	1.7	15
116	Improved Knowledge Extraction and Phase-Based Quality Prediction for Batch Processes. Industrial & Engineering Chemistry Research, 2008, 47, 825-834.	1.8	14
117	Reconstruction based fault diagnosis using concurrent phase partition and analysis of relative changes for multiphase batch processes with limited fault batches. Chemometrics and Intelligent Laboratory Systems, 2014, 130, 135-150.	1.8	14
118	Variants of slow feature analysis framework for automatic detection and isolation of multiple oscillations in coupled control loops. Computers and Chemical Engineering, 2020, 141, 107029.	2.0	14
119	Concurrent analytics of temporal information and local correlation for meticulous quality prediction of industrial processes. Journal of Process Control, 2021, 107, 47-57.	1.7	14
120	Inter-batch-evolution-traced process monitoring based on inter-batch mode division for multiphase batch processes. Chemometrics and Intelligent Laboratory Systems, 2014, 138, 178-192.	1.8	13
121	Statistical modeling and online fault detection for multiphase batch processes with analysis of between-phase relative changes. Chemometrics and Intelligent Laboratory Systems, 2014, 130, 58-67.	1.8	13
122	Multiple order model migration and optimal model selection for online glucose prediction in Type 1 diabetes. AICHE Journal, 2018, 64, 822-834.	1.8	13
123	Linearity Decomposition-Based Cointegration Analysis for Nonlinear and Nonstationary Process Performance Assessment. Industrial & Engineering Chemistry Research, 2020, 59, 3052-3063.	1.8	13
124	Root Cause Diagnosis of Oscillation-Type Plant Faults Using Nonlinear Causality Analysis. IFAC-PapersOnLine, 2017, 50, 13898-13903.	0.5	12
125	BNGBS: An efficient network boosting system with triple incremental learning capabilities for more nodes, samples, and classes. Neurocomputing, 2020, 412, 486-501.	3.5	12
126	Multi-lag and multi-type temporal causality inference and analysis for industrial process fault diagnosis. Control Engineering Practice, 2022, 124, 105174.	3.2	12

#	Article	lF	CITATIONS
127	Two-step Multiset Regression Analysis (MsRA) Algorithm. Industrial & Engineering Chemistry Research, 2012, 51, 1337-1354.	1.8	11
128	Betweenâ€phase calibration modeling and transition analysis for phaseâ€based quality interpretation and prediction. AICHE Journal, 2013, 59, 108-119.	1.8	11
129	Subspace Decomposition-Based Reconstruction Modeling for Fault Diagnosis in Multiphase Batch Processes. Industrial & Engineering Chemistry Research, 2013, 52, 14613-14626.	1.8	10
130	Unmanned combat aerial vehicles path planning using a novel probability density model based on Artificial Bee Colony algorithm. , 2013, , .		10
131	Regression modeling and quality prediction for multiphase batch processes with inner-phase analysis. Chemometrics and Intelligent Laboratory Systems, 2014, 135, 1-16.	1.8	10
132	Concurrent analysis of variable correlation and data distribution for monitoring large-scale processes under varying operation conditions. Neurocomputing, 2019, 349, 225-238.	3.5	10
133	Concurrent static and dynamic dissimilarity analytics for fine-scale evaluation of process data distributions. Control Engineering Practice, 2020, 103, 104572.	3.2	10
134	Single Model-Based Analysis of Relative Causal Changes for Root-Cause Diagnosis in Complex Industrial Processes. Industrial & Engineering Chemistry Research, 2021, 60, 12602-12613.	1.8	10
135	Defect Detection with Generative Adversarial Networks for Electroluminescence Images of Solar Cells. , 2020, , .		10
136	Enhanced process comprehension and quality analysis based on subspace separation for multiphase batch processes. AICHE Journal, 2011, 57, 388-403.	1.8	9
137	Non-stationary data reorganization for weighted wind turbine icing monitoring with Gaussian mixture model. Computers and Chemical Engineering, 2021, 147, 107241.	2.0	9
138	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
139	Simultaneously multi-UAV mapping and control with visual servoing. , 2015, , .		8
140	Latent variable based concurrent multiâ€ŧrends analysis method for monitoring batch processes with irregular and limited batches. Canadian Journal of Chemical Engineering, 2017, 95, 1817-1829.	0.9	8
141	A Gaussian Feature Analytics-Based DISSIM Method for Fine-Grained Non-Gaussian Process Monitoring. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2175-2181.	3.4	8
142	A probabilistic framework with concurrent analytics of Gaussian process regression and classification for multivariate control performance assessment. Journal of Process Control, 2021, 101, 78-92.	1.7	8
143	Multiblock-Based Qualitative and Quantitative Spectral Calibration Analysis. Industrial & Engineering Chemistry Research, 2010, 49, 8694-8704.	1.8	7
144	Rapid Model Identification for Online Glucose Prediction of New Subjects With Type 1 Diabetes Using Model Migration Method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2094-2099.	0.4	7

#	Article	IF	CITATIONS
145	Deep Transfer Learning based Multisource Adaptation Fault Diagnosis Network for Industrial Processes. IFAC-PapersOnLine, 2021, 54, 49-54.	0.5	7
146	Attention M-net for Automatic Pixel-Level Micro-crack Detection of Photovoltaic Module Cells in Electroluminescence Images. , 2020, , .		6
147	Multi-Channel Graph Convolutional Network based End-Point Element Composition Prediction of Converter Steelmaking. IFAC-PapersOnLine, 2021, 54, 152-157.	0.5	6
148	Condition-Driven Soft Transition Modeling and Monitoring Strategy for Complex Nonstationary Process. IFAC-PapersOnLine, 2021, 54, 445-450.	0.5	6
149	Bias-Eliminated Semantic Refinement for Any-Shot Learning. IEEE Transactions on Image Processing, 2022, 31, 2229-2244.	6.0	6
150	Covarianceâ€oriented qualitative and quantitative calibration analysis for multistage batch processes. Canadian Journal of Chemical Engineering, 2009, 87, 466-476.	0.9	5
151	Multiphase calibration modeling and quality interpretation by priority sorting. Chemical Engineering Science, 2011, 66, 5400-5409.	1.9	5
152	An Intelligent Human Activity Recognition Method with Incremental Learning Capability for Bedridden Patients. , 2018, , .		5
153	Broad Learning System Based Visual Fault Diagnosis for Electrical Equipment Thermography Images. , 2018, , .		5
154	Control Performance Monitoring with Temporal Features and Dissimilarity Analysis for Nonstationary Dynamic Processes. IFAC-PapersOnLine, 2018, 51, 357-362.	0.5	5
155	Fine-Scale Online Evaluation of Glycemic Control Performance Based on Temporal Feature Analysis. Industrial & Engineering Chemistry Research, 2019, 58, 4374-4386.	1.8	5
156	Causal network construction based on convergent cross mapping (CCM) for alarm system root cause tracing of nonlinear industrial process. IFAC-PapersOnLine, 2020, 53, 13619-13624.	0.5	5
157	Consistent-Contrastive Network With Temporality-Awareness for Robust-to-Anomaly Industrial Soft Sensor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	5
158	Dynamic multivariate threshold optimization and alarming for nonstationary processes subject to varying conditions. Control Engineering Practice, 2022, 124, 105180.	3.2	5
159	Incremental Variational Bayesian Gaussian Mixture Model With Decremental Optimization for Distribution Accommodation and Fine-Scale Adaptive Process Monitoring. IEEE Transactions on Cybernetics, 2023, 53, 5094-5107.	6.2	5
160	A New Method for Decision on the Structure of RBF Neural Network. , 2006, , .		4
161	A robust calibration modeling strategy for analysis of interferenceâ€subject spectral data. AICHE Journal, 2010, 56, 196-206.	1.8	4
162	An Automatic Denoising Method with Estimation of Noise Level and Detection of Noise Variability in Continuous Glucose Monitoring. IFAC-PapersOnLine, 2016, 49, 785-790.	0.5	4

#	Article	IF	CITATIONS
163	A classification-based fault detection method for Continuous glucose monitoring (CGM). , 2016, , .		4
164	Blood glucose control based on rapid model identification with particle swarm optimization method. , 2017, , .		4
165	A Two-step Parallel Phase Partition Algorithm for Monitoring Multiphase Batch Processes with Limited Batches. IFAC-PapersOnLine, 2017, 50, 2750-2755.	0.5	4
166	A probabilistic soft alert method for abnormal glycemic event by quantitative analysis of prediction uncertainty for type 1 diabetes. Chemometrics and Intelligent Laboratory Systems, 2018, 174, 94-110.	1.8	4
167	A sparse fault degradation oriented fisher discriminant analysis (FDFDA) algorithm for faulty variable isolation and its industrial application. Control Engineering Practice, 2019, 90, 311-320.	3.2	4
168	Section Division and Multi-model Method for Early Detection of Icing on Wind Turbine Blades. , 2019, ,		4
169	Sparse Adjacency Forecasting and Its Application to Efficient Root Cause Diagnosis of Process Faults. IFAC-PapersOnLine, 2021, 54, 439-444.	0.5	4
170	Machine learning based online fault prognostics for nonstationary industrial process via degradation feature extraction and temporal smoothness analysis. Journal of Central South University, 2021, 28, 3838-3855.	1.2	4
171	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
172	A bidirectional betweenâ€set statistical analysis method and its applications. AICHE Journal, 2011, 57, 1233-1249.	1.8	3
173	Automatic and online fault detection of sensor problems using continuous glucose monitoring data for type 1 diabetes. , 2014, , .		3
174	A concurrent fault and meal detection method based on dynamics analysis for continuous glucose monitoring sensor. Chemometrics and Intelligent Laboratory Systems, 2019, 189, 72-80.	1.8	3
175	Wavelet Packet Decomposition and Neural Network Based Fault Diagnosis for Elevator Excessive Vibration. , 2019, , .		3
176	Multiple Kernel Based Transfer Learning for the Few-Shot Recognition Task in Smart Home Scene. IFAC-PapersOnLine, 2020, 53, 17101-17106.	0.5	3
177	A Machine Vision-based Fabric Defect Detection Solution for Textile Production Industry Using Object Detection. , 2021, , .		3
178	Adjustable piecewise regression strategy based wind turbine power forecasting for probabilistic condition monitoring. Sustainable Energy Technologies and Assessments, 2022, 52, 102013.	1.7	3
179	Robust Control Performance Monitoring for Varying-Dimensional Time-Series Data Based on SCADA Systems. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	2.4	3
180	Identification of low-order process model with time delay from closed-loop step test. , 2009, , .		2

11

1

#	Article	IF	CITATIONS
181	Spectra calibration modeling and statistical analysis for cumulative quality interpretation and prediction. AICHE Journal, 2012, 58, 466-479.	1.8	2
182	A sub-principal component of fault detection (PCFD) modeling method and its application to online fault diagnosis. , 2013, , .		2
183	Multiset Independent Component Regression (MsICR) Based Statistical Data Analysis and Calibration Modeling. Industrial & Engineering Chemistry Research, 2013, 52, 2917-2924.	1.8	2
184	The multi-space generalization of total projection to latent structures (MsT-PLS) and its application to online process monitoring. , 2013, , .		2
185	Optimal load distribution based on maximization of comprehensive economic benefit in power plant. , 2015, , .		2
186	Sparse dissimilarity analysis based on distribution dissimilarity decomposition for online diagnosis of incipient faults. , 2017, , .		2
187	Lidar-camera Based 3D Obstacle Detection for UGVs. , 2019, , .		2
188	Nonlinear Fault Diagnosis based on RBF with Sliding Window Error Feedback. , 2006, , .		1
189	Stage-based Multiple PCA Modeling and On-line Monitoring Strategy for Batch Processes. , 2006, , .		1
190	Investigation of nonlinear orthogonal signal correction algorithm and its effects on multivariate calibration. , 2008, , .		1
191	Improved independent component regression modeling. , 2009, , .		1
192	Between-phase transition analysis for phase-based quality prediction. , 2012, , .		1
193	Fault subspace selection and analysis of relative changes based reconstruction modeling for multi-fault diagnosis. , 2014, , .		1
194	Sensor abnormality detection based on global prediction model for type I diabetes. , 2014, , .		1
195	An iterative within-phase relative analysis algorithm for relative sub-phase modeling and process monitoring. Chemometrics and Intelligent Laboratory Systems, 2014, 134, 67-78.	1.8	1
196	Quality-relevant iterative relative analysis based sub-phase modeling for multiphase batch process monitoring. , 2014, , .		1
197	Relative angle based obstacle-avoidance. , 2015, , .		1

198 Faulty variable selection based fault reconstruction for industrial processes. , 2016, , .

#	Article	IF	CITATIONS
199	Fault diagnosis method based on comprehensive analysis of fault characteristics of biased location and data variations. IFAC-PapersOnLine, 2017, 50, 13910-13915.	0.5	1
200	An effective fault detection method with FDA classifier and global model for continuous glucose monitor (CGM). , 2017, , .		1
201	Sequential phase division by constructing pseudo time-slice for nonlinear multiphase batch process monitoring with uneven lengths. IFAC-PapersOnLine, 2017, 50, 14070-14075.	0.5	1
202	Sparse analysis based fault deviations modeling and its application to fault diagnosis. , 2017, , .		1
203	A Multi-level Bayesian Network Based on Causality Analysis for Fault Diagnosis of Nonstationary Processes. , 2018, , .		1
204	A Data-Driven Human Activity Classification Method for an Intelligent Hospital Bed. , 2018, 2018, 4991-4996.		1
205	Fault Diagnosis Based on EEMD and Key Feature Representation with Separation of Stationary and Nonstationary Signals. , 2019, , .		1
206	Dynamic Multivariate Alarm Threshold Optimization for Nonstationary Processes Subject to Varying Conditions. , 2021, , .		1
207	Sparse Causal Residual Neural Network for Linear and Nonlinear Concurrent Causal Inference and Root Cause Diagnosis. , 2020, , .		1
208	Adversarial Sample Based Semi-Supervised Learning for Industrial Soft Sensor. IFAC-PapersOnLine, 2020, 53, 11644-11649.	0.5	1
209	The Automatic Analytics Framework for Multiple Oscillations in the Coupled Control Loops via a New Variant of Slow Feature Analysis. IFAC-PapersOnLine, 2020, 53, 11632-11637.	0.5	1
210	A Sequentially-Adaptive Deep Variational Model for Multirate Process Anomaly Detection. , 2021, , .		1
211	Detecting Time-Delayed Causations in Coal Mill based on Convergent Cross Mapping. , 2020, , .		1
212	Incremental Gaussian Mixture Model for Time-varying Process Monitoring. , 2020, , .		1
213	Dissimilarity Analytics for Monitoring of Nonstationary Industrial Processes with Stationary Subspace Decomposition. , 2020, , .		1
214	Short-term Elevator Traffic Flow Estimation with Hybrid Long Short-Term Memory Network. , 2020, , .		1
215	Multiple Condition Indicator Decoupling and Hierarchical Monitoring for Large-Scale Nonstationary Processes. Industrial & amp; Engineering Chemistry Research, 2022, 61, 4896-4909.	1.8	1
216	Parallel Temporal and Spatial Modeling for Interpretable Fault Detection and Isolation of Industrial Processes. , 2021, , .		1

#	Article	IF	CITATIONS
217	Particle Swarm Optimization for Solving a Shooting Point. , 2006, , .		О
218	Multivariate statistical analysis methods to investigate interindividual glucose dynamics for subjects with type 1 diabetes mellitus. , 2012, , .		0
219	Step-wise sequential phase partition algorithm and on-line monitoring strategy for multiphase batch processes. , 2013, , .		Ο
220	Quality-related inner-phase evolution analysis and quality prediction for uneven batch processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 517-522.	0.4	0
221	Fault diagnosis based on concurrent phase partition and analysis of relative changes with limited fault batches. , 2014, , .		Ο
222	Relative sub-PCA modeling algorithm using iterative within-phase relative analysis for multiphase batch process monitoring. , 2014, , .		0
223	A Step-wise sequential phase partition algorithm with limited batches for statistical modeling and online monitoring of multiphase batch processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2746-2751.	0.4	0
224	Multi-stage Process Analysis and Modelling based Online Monitoring for Chip Packaging Process. IFAC-PapersOnLine, 2015, 48, 993-998.	0.5	0
225	A variant fisher discriminant analysis algorithm and its applicationto fault diagnosis. , 2015, , .		0
226	Fault monitoring and diagnosis of tobacco ultrahigh-speed cellophane sealing machine with multi-condition characteristic. , 2016, , .		0
227	An extended inner–outer factorisation algorithm based on the structure of a transfer function matrix inverse. International Journal of Systems Science, 2016, 47, 1624-1635.	3.7	О
228	Sparse exponential discriminant analysis. , 2017, , .		0
229	A reconstruction strategy for fault diagnosis based on fault direction. , 2017, , .		0
230	Two-level modeling strategy based incipient fault detection for nonstationary industrial processes. , 2017, , .		0
231	Diagnosis of incipient fault conditions in batch processes using estimated data covariance structures. IFAC-PapersOnLine, 2017, 50, 12779-12784.	0.5	0
232	Incipient fault detection and variable isolation based on subspace decomposition and distribution distribution		0
233	Probabilistic abnormal glycemic event alert for T1DM patients. , 2017, , .		0
234	Predicting glucose concentration for hyper/hypoglycemia alert: Multiple order model migration and optimal model selection via analysis of sample size. , 2017, , .		0

#	Article	IF	CITATIONS
235	Fault isolation method for nonstationary industrial processes. , 2017, , .		Ο
236	A multi-model exponential discriminant analysis algorithm for online probabilistic diagnosis of time-varying faults. , 2017, , .		0
237	Fault Detection, Isolation, and Prognosis for Complex System. Journal of Control Science and Engineering, 2018, 2018, 1-2.	0.8	0
238	Distributed Bayesian network with slow feature analysis for fault diagnosis. , 2018, , .		0
239	Machine learning application for patients activity recognition with pressure sensing in bed. , 2018, , .		0
240	Visual defect recognition and location for pulsed thermography images based on defect-background contrast analysis. , 2018, , .		0
241	Disparity Map Enhancement based Stereo Matching Method Using Optical Flow. , 2018, , .		0
242	Obstacle avoidance under relative localization uncertainty. Science China Information Sciences, 2019, 62, 1.	2.7	0
243	Fault Degradation State Prediction under Closed-loop Control for 1000MW Ultra Supercritical Unit. , 2019, , .		0
244	Nonstationary Fault Diagnosis by Dual Analysis of Common and Specific Fault Variations with Cointegration Analysis. , 2019, , .		0
245	Path Planning for Unmanned Vehicles Based on Value Function Approximation Algorithm. , 2019, , .		0
246	Collaborative Analysis of Multiple Fault Characteristics Based Fault Prognostic Analytics for Large-scale Generate Unit. , 2019, , .		0
247	An EEMD and convolutional neural network based fault diagnosis method in intelligent power plant. , 2019, , .		0
248	A Fine-scale Industrial Process Distribution Evaluation Method with Concurrent Static and Dynamic Dissimilarity Analysis. , 2020, , .		0
249	Fault detection for Nonstationary Process with Decomposition and Analytics of Gaussian and Non-Gaussian Subspaces. , 2020, , .		0
250	A residual network for de novo peptide sequencing with attention mechanism. , 2020, , .		0
251	A Flow-Appearance Fusion Defect Detection Method for Substation Equipment in Multi-Scene. , 2021, , .		0
252	A Flow-Guided Anomaly Detection Method For Substation Equipment in Changing Scenarios. , 2021, , .		0

15