

Chunhui Zhao

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2516599/chunhui-zhao-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Conditional discriminative autoencoder and condition-driven immediate representation of soft transition for monitoring complex nonstationary processes. <i>Control Engineering Practice</i> , 2022 , 122, 105090	3.9	0
199	Adjustable piecewise regression strategy based wind turbine power forecasting for probabilistic condition monitoring. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102013	4.7	
198	Bias-Eliminated Semantic Refinement for Any-Shot Learning.. <i>IEEE Transactions on Image Processing</i> , 2022 , PP,	8.7	1
197	SFNet: A slow feature extraction network for parallel linear and nonlinear dynamic process monitoring. <i>Neurocomputing</i> , 2022 , 488, 359-380	5.4	2
196	Dynamic multivariate threshold optimization and alarming for nonstationary processes subject to varying conditions. <i>Control Engineering Practice</i> , 2022 , 124, 105180	3.9	0
195	Multi-lag and multi-type temporal causality inference and analysis for industrial process fault diagnosis. <i>Control Engineering Practice</i> , 2022 , 124, 105174	3.9	1
194	Robust Control Performance Monitoring for Varying-dimensional Time-series Data Based on SCADA Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	1
193	Adversarial smoothing tri-regression for robust semi-supervised industrial soft sensor. <i>Journal of Process Control</i> , 2021 , 108, 86-97	3.9	2
192	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
191	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
190	FIGAN: A Missing Industrial Data Imputation Method Customized for Soft Sensor Application. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-11	4.9	0
189	Consistent-Contrastive Network with Temporality-Awareness for Robust-to-Anomaly Industrial Soft Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 1-1	5.2	1
188	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
187	Linear and nonlinear hierarchical multivariate time delay analytics for dynamic modeling and process monitoring. <i>Journal of Process Control</i> , 2021 , 107, 83-93	3.9	1
186	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
185	Non-stationary data reorganization for weighted wind turbine icing monitoring with Gaussian mixture model. <i>Computers and Chemical Engineering</i> , 2021 , 147, 107241	4	1
184	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

183	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
182	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
181	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
180	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
179	Transfer Increment for Generalized Zero-Shot Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 2506-2520	10.3	4
178	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
177	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
176	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
175	Multisource-Refined Transfer Network for Industrial Fault Diagnosis Under Domain and Category Inconsistencies. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	9
174	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
173	Multi-Channel Graph Convolutional Network based End-Point Element Composition Prediction of Converter Steelmaking. <i>IFAC-PapersOnLine</i> , 2021 , 54, 152-157	0.7	1
172	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
171	Deep Transfer Learning based Multisource Adaptation Fault Diagnosis Network for Industrial Processes. <i>IFAC-PapersOnLine</i> , 2021 , 54, 49-54	0.7	2
170	Variational Progressive-Transfer Network for Soft Sensing of Multirate Industrial Processes. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	4
169	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
168	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
167	Condition-Driven Soft Transition Modeling and Monitoring Strategy for Complex Nonstationary Process. <i>IFAC-PapersOnLine</i> , 2021 , 54, 445-450	0.7	1
166	Sparse Adjacency Forecasting and Its Application to Efficient Root Cause Diagnosis of Process Faults. <i>IFAC-PapersOnLine</i> , 2021 , 54, 439-444	0.7	0

165	Machine learning based online fault prognostics for nonstationary industrial process via degradation feature extraction and temporal smoothness analysis. <i>Journal of Central South University</i> , 2021 , 28, 3838-3855	2.1	1
164	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
163	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
162	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
161	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
160	Dissimilarity Analytics for Monitoring of Nonstationary Industrial Processes with Stationary Subspace Decomposition 2020 ,		1
159	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
158	Adversarial Sample Based Semi-Supervised Learning for Industrial Soft Sensor. <i>IFAC-PapersOnLine</i> , 2020 , 53, 11644-11649	0.7	
157	The Automatic Analytics Framework for Multiple Oscillations in the Coupled Control Loops via a New Variant of Slow Feature Analysis. <i>IFAC-PapersOnLine</i> , 2020 , 53, 11632-11637	0.7	1
156	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
155	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
154	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
153	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
152	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
151	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
150	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
149	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
148	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

147	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2294-2303	8.9	9
146	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
145	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
144	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
143	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
142	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
141	Section Division and Multi-model Method for Early Detection of Icing on Wind Turbine Blades 2019 ,		3
140	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
139	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
138	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
137	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
136	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
135	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
134	Obstacle avoidance under relative localization uncertainty. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	
133	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
132	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
131	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
130	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

129	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
128	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
127	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
126	A Machine Vision-based Realtime Anomaly Detection Method for Industrial Products Using Deep Learning 2019 ,		7
125	Lidar-camera Based 3D Obstacle Detection for UGVs 2019 ,		1
124	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
123	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
122	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
121	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
120	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
119	A probabilistic soft alert method for abnormal glycemc 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
118	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
117	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
116	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
115	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
114	Sparse Exponential Discriminant Analysis and Its Application to Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 5931-5940	8.9	81
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	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

111	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
110	An Intelligent Human Activity Recognition Method with Incremental Learning Capability for Bedridden Patients 2018 ,		4
109	A Multi-level Bayesian Network Based on Causality Analysis for Fault Diagnosis of Nonstationary Processes 2018 ,		1
108	Broad Learning System Based Visual Fault Diagnosis for Electrical Equipment Thermography Images 2018 ,		3
107	Control Performance Monitoring with Temporal Features and Dissimilarity Analysis for Nonstationary Dynamic Processes. <i>IFAC-PapersOnLine</i> , 2018 , 51, 357-362	0.7	4
106	A Data-Driven Human Activity Classification Method for an Intelligent Hospital Bed. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 4991-4996	0.9	
105	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
104	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
103	Fault Detection, Isolation, and Prognosis for Complex System. <i>Journal of Control Science and Engineering</i> , 2018 , 2018, 1-2	1.2	
102	. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 842-854	4.8	68
101	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
100	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
99	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
98	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
97	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
96	Fault diagnosis method based on comprehensive analysis of fault characteristics of biased location and data variations. <i>IFAC-PapersOnLine</i> , 2017 , 50, 13910-13915	0.7	0
95	Sparse analysis based fault deviations modeling and its application to fault diagnosis 2017 ,		1
94	Berberine modulates amyloid- β peptide generation by activating AMP-activated protein kinase. <i>Neuropharmacology</i> , 2017 , 125, 408-417	5.5	22

93	An effective fault detection method with FDA classifier and global model for continuous glucose monitor (CGM) 2017 ,		1
92	Blood glucose control based on rapid model identification with particle swarm optimization method 2017 ,		1
91	Sparse dissimilarity analysis based on distribution dissimilarity decomposition for online diagnosis of incipient faults 2017 ,		2
90	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
89	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
88	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
87	Diagnosis of incipient fault conditions in batch processes using estimated data covariance structures. <i>IFAC-PapersOnLine</i> , 2017 , 50, 12779-12784	0.7	
86	Sequential phase division by constructing pseudo time-slice for nonlinear multiphase batch process monitoring with uneven lengths. <i>IFAC-PapersOnLine</i> , 2017 , 50, 14070-14075	0.7	
85	Root Cause Diagnosis of Oscillation-Type Plant Faults Using Nonlinear Causality Analysis. <i>IFAC-PapersOnLine</i> , 2017 , 50, 13898-13903	0.7	8
84	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
83	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
82	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
81	Efficient faulty variable selection and parsimonious reconstruction modelling for fault isolation. <i>Journal of Process Control</i> , 2016 , 38, 31-41	3.9	26
80	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
79	An extended innerOuter factorisation algorithm based on the structure of a transfer function matrix inverse. <i>International Journal of Systems Science</i> , 2016 , 47, 1624-1635	2.3	
78	Geniposide Alleviates Amyloid-Induced Synaptic Injury by Protecting Axonal Mitochondrial Trafficking. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 309	6.1	18
77	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
76	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

75	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
74	A classification-based fault detection method for Continuous glucose monitoring (CGM) 2016 ,		2
73	Faulty variable selection based fault reconstruction for industrial processes 2016 ,		1
72	A nested-loop Fisher discriminant analysis algorithm. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015 , 146, 396-406	3.8	33
71	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
70	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
69	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
68	Optimal load distribution based on maximization of comprehensive economic benefit in power plant 2015 ,		1
67	Online fault prognosis with relative deviation analysis and vector autoregressive modeling. <i>Chemical Engineering Science</i> , 2015 , 138, 531-543	4.4	29
66	Multi-stage Process Analysis and Modelling based Online Monitoring for Chip Packaging Process. <i>IFAC-PapersOnLine</i> , 2015 , 48, 993-998	0.7	
65	Simultaneously multi-UAV mapping and control with visual servoing 2015 ,		4
64	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
63	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
62	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
61	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
60	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
59	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
58	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

57	Towards understanding the stabilization process in vermicomposting using PARAFAC analysis of fluorescence spectra. <i>Chemosphere</i> , 2014 , 117, 216-22	8.4	21
56	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
55	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
54	Between-Mode Quality Analysis Based Multimode Batch Process Quality Prediction. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15629-15638	3.9	11
53	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
52	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
51	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
50	A Step-wise sequential phase partition algorithm with limited batches for statistical modeling and online monitoring of multiphase batch processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 2746-2751		
49	Quality-relevant iterative relative analysis based sub-phase modeling for multiphase batch process monitoring 2014 ,		1
48	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
47	Automatic and online fault detection of sensor problems using continuous glucose monitoring data for type 1 diabetes 2014 ,		2
46	Fault subspace selection and analysis of relative changes based reconstruction modeling for multi-fault diagnosis 2014 ,		1
45	Microbial community structure and metabolic property of biofilms in vermifiltration for liquid-state sludge stabilization using PLFA profiles. <i>Bioresource Technology</i> , 2014 , 151, 340-6	11	31
44	An iterative within-phase relative analysis algorithm for relative sub-phase modeling and process monitoring. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014 , 134, 67-78	3.8	1
43	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
42	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
41	Subspace decomposition approach of fault deviations and its application to fault reconstruction. <i>Control Engineering Practice</i> , 2013 , 21, 1396-1409	3.9	24
40	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

39	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
38	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
37	A sub-principal component of fault detection (PCFD) modeling method and its application to online fault diagnosis 2013 ,		1
36	Unmanned combat aerial vehicles path planning using a novel probability density model based on Artificial Bee Colony algorithm 2013 ,		8
35	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
34	Multiset Independent Component Regression (MslCR) Based Statistical Data Analysis and Calibration Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2917-2924	3.9	1
33	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
32	Enhancement stabilization of heavy metals (Zn, Pb, Cr and Cu) during vermifiltration of liquid-state sludge. <i>Bioresource Technology</i> , 2013 , 146, 649-655	11	29
31	The multi-space generalization of total projection to latent structures (Mst-PLS) and its application to online process monitoring 2013 ,		1
30	Quality-related inner-phase evolution analysis and quality prediction for uneven batch processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 517-522		
29	Spectra calibration modeling and statistical analysis for cumulative quality interpretation and prediction. <i>AICHE Journal</i> , 2012 , 58, 466-479	3.6	2
28	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
27	Two-step Multiset Regression Analysis (MsRA) Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1337-1354	3.9	10
26	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
25	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
24	Between-phase transition analysis for phase-based quality prediction 2012 ,		1
23	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
22	Multiphase calibration modeling and quality interpretation by priority sorting. <i>Chemical Engineering Science</i> , 2011 , 66, 5400-5409	4.4	4

21	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
20	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
19	A bidirectional between-set statistical analysis method and its applications. <i>AICHE Journal</i> , 2011 , 57, 1233-1249	3.6	2
18	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
17	Multiblock-Based Qualitative and Quantitative Spectral Calibration Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 8694-8704	3.9	7
16	An improved independent component regression modeling and quantitative calibration procedure. <i>AICHE Journal</i> , 2010 , 56, 1519-1535	3.6	34
15	Statistical analysis and online monitoring for multimode processes with between-mode transitions. <i>Chemical Engineering Science</i> , 2010 , 65, 5961-5975	4.4	74
14	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
13	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
12	Nonlinear process monitoring based on kernel dissimilarity analysis. <i>Control Engineering Practice</i> , 2009 , 17, 221-230	3.9	50
11	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
10	Nonlinear Batch Process Monitoring Using Phase-Based Kernel-Independent Component Analysis/Principal Component Analysis (KICAPCA). <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9163-9174	3.9	63
9	Enhanced Process Comprehension and Statistical Analysis for Slow-Varying Batch Processes. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 9996-10008	3.9	18
8	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
7	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
6	Improved Knowledge Extraction and Phase-Based Quality Prediction for Batch Processes. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 825-834	3.9	11
5	Quality prediction based on phase-specific average trajectory for batch processes. <i>AICHE Journal</i> , 2008 , 54, 693-705	3.6	55
4	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

3	Dissimilarity analysis based batch process monitoring using moving windows. <i>AICHE Journal</i> , 2007 , 53, 1267-1277	3.6	42
2	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
1	A New Method for Decision on the Structure of RBF Neural Network 2006 ,		1