

Qingchao Jiang

List of Publications by Year in descending order

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70
papers

2,980
citations

172207

29
h-index

168136

53
g-index

70
all docs

70
docs citations

70
times ranked

1468
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance-Driven Distributed PCA Process Monitoring Based on Fault-Relevant Variable Selection and Bayesian Inference. IEEE Transactions on Industrial Electronics, 2016, 63, 377-386.	5.2	292
2	Review and Perspectives of Data-Driven Distributed Monitoring for Industrial Plant-Wide Processes. Industrial & Engineering Chemistry Research, 2019, 58, 12899-12912.	1.8	220
3	Fault Detection and Diagnosis in Chemical Processes Using Sensitive Principal Component Analysis. Industrial & Engineering Chemistry Research, 2013, 52, 1635-1644.	1.8	193
4	Parallel PCA&KPCA for nonlinear process monitoring. Control Engineering Practice, 2018, 80, 17-25.	3.2	163
5	Plant-wide process monitoring based on mutual information&multiblock principal component analysis. ISA Transactions, 2014, 53, 1516-1527.	3.1	107
6	Distributed monitoring for large-scale processes based on multivariate statistical analysis and Bayesian method. Journal of Process Control, 2016, 46, 75-83.	1.7	103
7	Just&time reorganized PCA integrated with SVDD for chemical process monitoring. AIChE Journal, 2014, 60, 949-965.	1.8	94
8	Data-Driven Distributed Local Fault Detection for Large-Scale Processes Based on the GA-Regularized Canonical Correlation Analysis. IEEE Transactions on Industrial Electronics, 2017, 64, 8148-8157.	5.2	92
9	Monitoring multi-mode plant-wide processes by using mutual information-based multi-block PCA, joint probability, and Bayesian inference. Chemometrics and Intelligent Laboratory Systems, 2014, 136, 121-137.	1.8	91
10	Nonlinear plant-wide process monitoring using MI-spectral clustering and Bayesian inference-based multiblock KPCA. Journal of Process Control, 2015, 32, 38-50.	1.7	85
11	Data-Driven Batch-End Quality Modeling and Monitoring Based on Optimized Sparse Partial Least Squares. IEEE Transactions on Industrial Electronics, 2020, 67, 4098-4107.	5.2	84
12	Imbalanced Classification Based on Minority Clustering Synthetic Minority Oversampling Technique With Wind Turbine Fault Detection Application. IEEE Transactions on Industrial Informatics, 2021, 17, 5867-5875.	7.2	79
13	GMM and optimal principal components-based Bayesian method for multimode fault diagnosis. Computers and Chemical Engineering, 2016, 84, 338-349.	2.0	77
14	Fault detection and identification using a Kullback-Leibler divergence based multi-block principal component analysis and bayesian inference. Korean Journal of Chemical Engineering, 2014, 31, 930-943.	1.2	74
15	Neural network aided approximation and parameter inference of non-Markovian models of gene expression. Nature Communications, 2021, 12, 2618.	5.8	71
16	Local&Global Modeling and Distributed Computing Framework for Nonlinear Plant-Wide Process Monitoring With Industrial Big Data. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3355-3365.	7.2	64
17	Multimode Process Monitoring Using Variational Bayesian Inference and Canonical Correlation Analysis. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1814-1824.	3.4	56
18	Learning Deep Correlated Representations for Nonlinear Process Monitoring. IEEE Transactions on Industrial Informatics, 2019, 15, 6200-6209.	7.2	52

#	ARTICLE	IF	CITATIONS
19	Weighted kernel principal component analysis based on probability density estimation and moving window and its application in nonlinear chemical process monitoring. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 127, 121-131.	1.8	51
20	Multivariate Statistical Monitoring of Key Operation Units of Batch Processes Based on Time-Slice CCA. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 1368-1375.	3.2	51
21	Chemical processes monitoring based on weighted principal component analysis and its application. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2012, 119, 11-20.	1.8	47
22	Data-Driven Two-Dimensional Deep Correlated Representation Learning for Nonlinear Batch Process Monitoring. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 2839-2848.	7.2	46
23	Bayesian Fault Diagnosis With Asynchronous Measurements and Its Application in Networked Distributed Monitoring. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 6316-6324.	5.2	45
24	PCA-ICA Integrated with Bayesian Method for Non-Gaussian Fault Diagnosis. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4979-4986.	1.8	42
25	Multiobjective Two-Dimensional CCA-Based Monitoring for Successive Batch Processes With Industrial Injection Molding Application. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 3825-3834.	5.2	41
26	Distributed-ensemble stacked autoencoder model for non-linear process monitoring. <i>Information Sciences</i> , 2021, 542, 302-316.	4.0	39
27	Multiblock Independent Component Analysis Integrated with Hellinger Distance and Bayesian Inference for Non-Gaussian Plant-Wide Process Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2497-2508.	1.8	36
28	Deep relevant representation learning for soft sensing. <i>Information Sciences</i> , 2020, 514, 263-274.	4.0	35
29	Probabilistic Weighted NPE-SVDD for chemical process monitoring. <i>Control Engineering Practice</i> , 2014, 28, 74-89.	3.2	29
30	Generalized Dice's coefficient-based multi-block principal component analysis with Bayesian inference for plant-wide process monitoring. <i>Journal of Chemometrics</i> , 2015, 29, 165-178.	0.7	28
31	Performance-driven optimal design of distributed monitoring for large-scale nonlinear processes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 155, 151-159.	1.8	26
32	Locally Weighted Canonical Correlation Analysis for Nonlinear Process Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13783-13792.	1.8	26
33	Independent component analysis-based non-Gaussian process monitoring with preselecting optimal components and support vector data description. <i>International Journal of Production Research</i> , 2014, 52, 3273-3286.	4.9	25
34	Batch process monitoring based on multiple-phase online sorting principal component analysis. <i>ISA Transactions</i> , 2016, 64, 342-352.	3.1	25
35	Batch process monitoring based on self-adaptive subspace support vector data description. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 170, 25-31.	1.8	25
36	Data-Driven Optimized Distributed Dynamic PCA for Efficient Monitoring of Large-Scale Dynamic Processes. <i>IEEE Access</i> , 2017, 5, 18325-18333.	2.6	24

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37	Independent component analysis model utilizing de-mixing information for improved non-Gaussian process monitoring. <i>Computers and Industrial Engineering</i> , 2016, 94, 188-200.	3.4	21
38	Quality-relevant dynamic process monitoring based on mutual information multiblock slow feature analysis. <i>Journal of Chemometrics</i> , 2019, 33, e3110.	0.7	21
39	Double-Weighted Independent Component Analysis for Non-Gaussian Chemical Process Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14396-14405.	1.8	20
40	Data-driven individual-joint learning framework for nonlinear process monitoring. <i>Control Engineering Practice</i> , 2020, 95, 104235.	3.2	20
41	Neighborhood Variational Bayesian Multivariate Analysis for Distributed Process Monitoring With Missing Data. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 2330-2339.	3.2	19
42	Fault detection in nonlinear chemical processes based on kernel entropy component analysis and angular structure. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1181-1186.	1.2	16
43	Variational Bayesian probabilistic modeling framework for data-driven distributed process monitoring. <i>Control Engineering Practice</i> , 2021, 110, 104778.	3.2	16
44	Just-in-time learning-multiple subspace support vector data description used for non-Gaussian dynamic batch process monitoring. <i>Journal of Chemometrics</i> , 2019, 33, e3134.	0.7	14
45	Fault Diagnostic Method Based on Deep Learning and Multimodel Feature Fusion for Complex Industrial Processes. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18061-18069.	1.8	14
46	Joint-individual monitoring of large-scale chemical processes with multiple interconnected operation units incorporating multiset CCA. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 166, 14-22.	1.8	13
47	A Multi-SOM with Canonical Variate Analysis for Chemical Process Monitoring and Fault Diagnosis. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 40-51.	0.3	13
48	Optimal Variable Transmission for Distributed Local Fault Detection Incorporating RA and Evolutionary Optimization. <i>IEEE Access</i> , 2018, 6, 3201-3211.	2.6	12
49	Quality-Driven Kernel Projection to Latent Structure Model for Nonlinear Process Monitoring. <i>IEEE Access</i> , 2019, 7, 74450-74458.	2.6	12
50	Deep Discriminative Representation Learning for Nonlinear Process Fault Detection. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019, , 1-10.	3.4	12
51	Neighborhood Stable Correlation Analysis for Robust Monitoring of Multiunit Chemical Processes. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16695-16707.	1.8	11
52	Multivariate Statistical Process Monitoring Using Modified Factor Analysis and Its Application. <i>Journal of Chemical Engineering of Japan</i> , 2012, 45, 829-839.	0.3	11
53	Quality-relevant dynamic process monitoring based on dynamic total slow feature regression model. <i>Measurement Science and Technology</i> , 2020, 31, 075102.	1.4	9
54	Data-Driven Communication Efficient Distributed Monitoring for Multiunit Industrial Plant-Wide Processes. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 1913-1923.	3.4	9

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55	Joint Probability Density and Double-Weighted Independent Component Analysis for Multimode Non-Gaussian Process Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 20168-20176.	1.8	8
56	Loading-Based Principal Component Selection for PCA Integrated with Support Vector Data Description. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1615-1627.	1.8	8
57	Joint-Individual Monitoring of Parallel-Running Batch Processes Based on MCCA. <i>IEEE Access</i> , 2018, 6, 13005-13014.	2.6	8
58	Distributed Robust Process Monitoring Based on Optimized Denoising Autoencoder With Reinforcement Learning. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-11.	2.4	8
59	Improved fault detection in nonlinear chemical processes using WKPCA-SVDD. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1935-1942.	1.2	7
60	Dynamic CCA-Based Distributed Monitoring for Multiunit Non-Gaussian Processes. <i>IFAC-PapersOnLine</i> , 2018, 51, 347-352.	0.5	6
61	Multimodal process monitoring based on transition-constrained Gaussian mixture model. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 3070-3078.	1.7	6
62	Data-Driven nonlinear chemical process fault diagnosis based on hierarchical representation learning. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 2150-2165.	0.9	6
63	Data-Driven Soft Sensing for Batch Processes Using Neural Network-Based Deep Quality-Relevant Representation Learning. <i>IEEE Transactions on Artificial Intelligence</i> , 2023, 4, 602-611.	3.4	6
64	Dynamic nonlinear process monitoring based on dynamic correlation variable selection and kernel principal component regression. <i>Journal of the Franklin Institute</i> , 2022, 359, 4513-4539.	1.9	5
65	Efficient Monitoring of Nonlinear Chemical Processes based on Fault-Relevant Kernel Principal Component Subspace Construction and Bayesian Inference. <i>Journal of Chemical Engineering of Japan</i> , 2017, 50, 648-656.	0.3	3
66	Recursive correlated representation learning for adaptive monitoring of slowly varying processes. <i>ISA Transactions</i> , 2020, 107, 360-369.	3.1	3
67	Fault Detection in Non-Gaussian Processes Based on Mutual Information Weighted Independent Component Analysis. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 60-68.	0.3	3
68	Output-related feature representation for soft sensing based on supervised locality preserving projections. , 2017, , .		2
69	FRDPC subspace construction integrated with Bayesian inference for efficient monitoring of dynamic chemical processes. , 2017, , .		0
70	Data-Driven Model Predictive Monitoring for Dynamic Processes. <i>IFAC-PapersOnLine</i> , 2020, 53, 98-103.	0.5	0