Chudong Tong

List of Publications by Year
in descending order

41 papers	783 citations	516710 16 h-index	526287 27 g-index
41 all docs	41 docs citations	41 times ranked	478 citing authors

#	Article	IF	Citations
1	Statistical process monitoring based on ensemble structure analysis. IEEE/CAA Journal of Automatica Sinica, 2024, , 1-8.	13.1	7
2	A multigroup fault detection and diagnosis framework for large-scale industrial systems using nonlinear multivariate analysis. Expert Systems With Applications, 2022, 206, 117859.	7.6	6
3	A multigroup framework for fault detection and diagnosis in large-scale multivariate systems. Journal of Process Control, 2021, 100, 65-79.	3.3	9
4	Fault detection based on auto-regressive extreme learning machine for nonlinear dynamic processes. Applied Soft Computing Journal, 2021, 106, 107319.	7.2	8
5	Dynamic statistical process monitoring based on online dynamic discriminative feature analysis. Journal of Process Control, 2021, 103, 67-75.	3.3	5
6	Multivariate statistical process monitoring based on principal discriminative component analysis. Journal of the Franklin Institute, 2021, 358, 7900-7915.	3.4	6
7	Statistical process monitoring based on just-in-time feature analysis. Control Engineering Practice, 2021, 115, 104889.	5.5	7
8	Distributed Statistical Process Monitoring Based on Multiblock Canonical Correlation Analysis. Industrial & Engineering Chemistry Research, 2020, 59, 1193-1201.	3.7	9
9	A Multigroup Fault Detection and Diagnosis Scheme for Multivariate Systems. Industrial & Engineering Chemistry Research, 2020, 59, 20767-20778.	3.7	5
10	Dynamic statistical process monitoring based on generalized canonical variate analysis. Journal of the Taiwan Institute of Chemical Engineers, 2020, 112, 78-86.	5.3	14
11	Canonical correlation analysis-based explicit relation discovery for statistical process monitoring. Journal of the Franklin Institute, 2020, 357, 5004-5018.	3.4	8
12	Multivariate Fault Detection and Diagnosis Based on Variable Grouping. Industrial & Engineering Chemistry Research, 2020, 59, 7693-7705.	3.7	11
13	Nonlinear process monitoring based on decentralized generalized regression neural networks. Expert Systems With Applications, 2020, 150, 113273.	7.6	17
14	Dynamic process monitoring based on a time-serial multi-block modeling approach. Journal of Process Control, 2020, 89, 22-29.	3.3	6
15	Dynamic process monitoring based on orthogonal dynamic inner neighborhood preserving embedding model. Chemometrics and Intelligent Laboratory Systems, 2019, 193, 103812.	3.5	4
16	Improvements to the T² Statistic for Multivariate Fault Detection. Industrial & Engineering Chemistry Research, 2019, 58, 20692-20709.	3.7	17
17	Distributed partial least squares based residual generation for statistical process monitoring. Journal of Process Control, 2019, 75, 77-85.	3.3	38
18	Statistical monitoring for non-Gaussian processes based on MICA-KDR method. ISA Transactions, 2019, 94, 164-173.	5.7	10

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19	Sparse PARAFAC2 decomposition: Application to fault detection and diagnosis in batch processes. Chemometrics and Intelligent Laboratory Systems, 2019, 195, 103893.	3.5	5
20	Sparse Robust Principal Component Analysis with Applications to Fault Detection and Diagnosis. Industrial & Engineering Chemistry Research, 2019, 58, 1300-1309.	3.7	37
21	Statistical process monitoring based on nonlocal and multiple neighborhoods preserving embedding model. Journal of Process Control, 2018, 65, 34-40.	3.3	24
22	Decentralized Modified Autoregressive Models for Fault Detection in Dynamic Processes. Industrial & Engineering Chemistry Research, 2018, 57, 15794-15802.	3.7	10
23	KPI relevant and irrelevant fault monitoring with neighborhood component analysis and two-level PLS. Journal of the Franklin Institute, 2018, 355, 8049-8064.	3.4	15
24	A missing variable approach for decentralized statistical process monitoring. ISA Transactions, 2018, 81, 8-17.	5.7	8
25	A Novel Decentralized Process Monitoring Scheme Using a Modified Multiblock PCA Algorithm. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1129-1138.	5.2	61
26	Double-layer ensemble monitoring of non-gaussian processes using modified independent component analysis. ISA Transactions, 2017, 68, 181-188.	5.7	30
27	Fault detection and diagnosis of dynamic processes using weighted dynamic decentralized PCA approach. Chemometrics and Intelligent Laboratory Systems, 2017, 161, 34-42.	3.5	46
28	A Decomposition Scheme for Integration of Production Scheduling and Control: Demand Response to Varying Electricity Prices. Industrial & Engineering Chemistry Research, 2017, 56, 8917-8926.	3.7	2
29	Ensemble modified independent component analysis for enhanced non-Gaussian process monitoring. Control Engineering Practice, 2017, 58, 34-41.	5.5	51
30	Evolutionary optimization with adaptive surrogates and its application in crude oil distillation. , 2016, , .		2
31	Dissimilarity-Based Fault Diagnosis through Ensemble Filtering of Informative Variables. Industrial & Engineering Chemistry Research, 2016, 55, 8774-8783.	3.7	6
32	Statistical process monitoring based on orthogonal multi-manifold projections and a novel variable contribution analysis. ISA Transactions, 2016, 65, 407-417.	5.7	23
33	Soft sensing of non-Gaussian processes using ensemble modified independent component regression. Chemometrics and Intelligent Laboratory Systems, 2016, 157, 120-126.	3.5	14
34	Decentralized Monitoring of Dynamic Processes Based on Dynamic Feature Selection and Informative Fault Pattern Dissimilarity. IEEE Transactions on Industrial Electronics, 2016, 63, 3804-3814.	7.9	53
35	Energy demand management for process systems through production scheduling and control. AICHE Journal, 2015, 61, 3756-3769.	3.6	16
36	Fault detection and isolation in hybrid process systems using a combined dataâ€driven and observerâ€design methodology. AICHE Journal, 2014, 60, 2805-2814.	3.6	21

#	Article	IF	Citations
37	Statistical process monitoring based on a multi-manifold projection algorithm. Chemometrics and Intelligent Laboratory Systems, 2014, 130, 20-28.	3.5	37
38	Improved ICA for process monitoring based on ensemble learning and Bayesian inference. Chemometrics and Intelligent Laboratory Systems, 2014, 135, 141-149.	3.5	42
39	Distributed Statistical Process Monitoring Based on Four-Subspace Construction and Bayesian Inference. Industrial & Engineering Chemistry Research, 2013, 52, 9897-9907.	3.7	64
40	Double-Weighted Independent Component Analysis for Non-Gaussian Chemical Process Monitoring. Industrial & Engineering Chemistry Research, 2013, 52, 14396-14405.	3.7	20
41	Double monitoring of common and specific features for multimode process. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 730-741.	1.5	9