

# Kai Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4171499/publications.pdf>

Version: 2024-02-01

28  
papers

1,154  
citations

516710

16  
h-index

677142

22  
g-index

28  
all docs

28  
docs citations

28  
times ranked

854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Canonical correlation analysis-based fault detection methods with application to alumina evaporation process. <i>Control Engineering Practice</i> , 2016, 46, 51-58.	5.5	171
2	A comparison and evaluation of key performance indicator-based multivariate statistics process monitoring approaches. <i>Journal of Process Control</i> , 2015, 33, 112-126.	3.3	164
3	Enhanced cancer therapy by hypoxia-responsive copper metal-organic frameworks nanosystem. <i>Biomaterials</i> , 2020, 258, 120278.	11.4	140
4	A Distributed Canonical Correlation Analysis-Based Fault Detection Method for Plant-Wide Process Monitoring. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 2710-2720.	11.3	110
5	Quality-Related Process Monitoring Based on Total Kernel PLS Model and Its Industrial Application. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-14.	1.1	81
6	A Quality-Based Nonlinear Fault Diagnosis Framework Focusing on Industrial Multimode Batch Processes. <i>IEEE Transactions on Industrial Electronics</i> , 2016, , 1-1.	7.9	66
7	A data-driven multiplicative fault diagnosis approach for automation processes. <i>ISA Transactions</i> , 2014, 53, 1436-1445.	5.7	55
8	A Common and Individual Feature Extraction-Based Multimode Process Monitoring Method With Application to the Finishing Mill Process. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 4841-4850.	11.3	53
9	A KPI-based process monitoring and fault detection framework for large-scale processes. <i>ISA Transactions</i> , 2017, 68, 276-286.	5.7	41
10	Data-Driven Detection of Hot Spots in Photovoltaic Energy Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 1731-1738.	9.3	38
11	Quality-relevant fault monitoring based on efficient projection to latent structures with application to hot strip mill process. <i>IET Control Theory and Applications</i> , 2015, 9, 1135-1145.	2.1	35
12	A Correlation-Based Distributed Fault Detection Method and Its Application to a Hot Tandem Rolling Mill Process. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 2380-2390.	7.9	35
13	Modelling the strip thickness in hot steel rolling mills using least-squares support vector machines. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 171-178.	1.7	27
14	Quality-related process monitoring for dynamic non-Gaussian batch process with multi-phase using a new data-driven method. <i>Neurocomputing</i> , 2016, 214, 317-328.	5.9	24
15	Bilateral Teleoperation of Multiple Robots Under Scheduling Communication. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 1770-1784.	5.2	23
16	New kernel independent and principal components analysis-based process monitoring approach with application to hot strip mill process. <i>IET Control Theory and Applications</i> , 2014, 8, 1723-1731.	2.1	22
17	Using the expected detection delay to assess the performance of different multivariate statistical process monitoring methods for multiplicative and drift faults. <i>ISA Transactions</i> , 2017, 67, 56-66.	5.7	15
18	A Novel Feature-Extraction-Based Process Monitoring Method for Multimode Processes With Common Features and Its Applications to a Rolling Process. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 6466-6475.	11.3	13

#	ARTICLE	IF	CITATIONS
19	The Mechanical and Microstructural Properties of Composite Structures Made of a Cement-Tailing Backfill and Rock Core. Minerals (Basel, Switzerland), 2020, 10, 159.	2.0	12
20	Monitoring of Nonlinear Processes With Multiple Operating Modes Through a Novel Gaussian Mixture Variational Autoencoder Model. IEEE Access, 2020, 8, 114487-114500.	4.2	11
21	A novel common and specific features extraction-based process monitoring approach with application to a hot rolling mill process. Control Engineering Practice, 2020, 104, 104628.	5.5	6
22	A Comparison of Different Statistics for Detecting Multiplicative Faults in Multivariate Statistics-Based Fault Detection Approaches. IEEE Access, 2018, 6, 43808-43823.	4.2	5
23	Remaining Useful Life Prediction for Aircraft Engines Based on Grey Model. , 2019, , .		5
24	PA-OMT: A performance assessment and online monitoring toolbox for process monitoring and fault detection. , 2019, , .		1
25	A Health Indicator Construction Method based on Deep Belief Network for Remaining Useful Life Prediction. , 2019, , .		1
26	A Kernel Canonical Correlation Analysis-Based Fault Detection Method with Application to a Hot Tandem Rolling Mill Process. , 2019, , .		0
27	A Novel Scheme for Remaining Useful Life Prediction and Safety Assessment Based on Hybrid Method. , 2019, , .		0
28	Multimode Process Monitoring and Fault Diagnosis Based on Tensor Decomposition. IFAC-PapersOnLine, 2020, 53, 120-125.	0.9	0