

# Kai Zhang

## List of Publications by Year in descending order

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28  
papers

1,154  
citations

516710

16  
h-index

677142

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g-index

28  
all docs

28  
docs citations

28  
times ranked

854  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Feature-Extraction-Based Process Monitoring Method for Multimode Processes With Common Features and Its Applications to a Rolling Process. IEEE Transactions on Industrial Informatics, 2021, 17, 6466-6475.	11.3	13
2	A Correlation-Based Distributed Fault Detection Method and Its Application to a Hot Tandem Rolling Mill Process. IEEE Transactions on Industrial Electronics, 2020, 67, 2380-2390.	7.9	35
3	Bilateral Teleoperation of Multiple Robots Under Scheduling Communication. IEEE Transactions on Control Systems Technology, 2020, 28, 1770-1784.	5.2	23
4	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
5	Enhanced cancer therapy by hypoxia-responsive copper metal-organic frameworks nanosystem. Biomaterials, 2020, 258, 120278.	11.4	140
6	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
7	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
8	Multimode Process Monitoring and Fault Diagnosis Based on Tensor Decomposition. IFAC-PapersOnLine, 2020, 53, 120-125.	0.9	0
9	Data-Driven Detection of Hot Spots in Photovoltaic Energy Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1731-1738.	9.3	38
10	A Kernel Canonical Correlation Analysis-Based Fault Detection Method with Application to a Hot Tandem Rolling Mill Process. , 2019, , .		0
11	A Novel Scheme for Remaining Useful Life Prediction and Safety Assessment Based on Hybrid Method. , 2019, , .		0
12	PA-OMT: A performance assessment and online monitoring toolbox for process monitoring and fault detection. , 2019, , .		1
13	A Health Indicator Construction Method based on Deep Belief Network for Remaining Useful Life Prediction. , 2019, , .		1
14	Remaining Useful Life Prediction for Aircraft Engines Based on Grey Model. , 2019, , .		5
15	A Distributed Canonical Correlation Analysis-Based Fault Detection Method for Plant-Wide Process Monitoring. IEEE Transactions on Industrial Informatics, 2019, 15, 2710-2720.	11.3	110
16	A Common and Individual Feature Extraction-Based Multimode Process Monitoring Method With Application to the Finishing Mill Process. IEEE Transactions on Industrial Informatics, 2018, 14, 4841-4850.	11.3	53
17	Modelling the strip thickness in hot steel rolling mills using leastâ€squares support vector machines. Canadian Journal of Chemical Engineering, 2018, 96, 171-178.	1.7	27
18	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

#	ARTICLE	IF	CITATIONS
19	A KPI-based process monitoring and fault detection framework for large-scale processes. ISA Transactions, 2017, 68, 276-286.	5.7	41
20	Using the expected detection delay to assess the performance of different multivariate statistical process monitoring methods for multiplicative and drift faults. ISA Transactions, 2017, 67, 56-66.	5.7	15
21	Quality-related process monitoring for dynamic non-Gaussian batch process with multi-phase using a new data-driven method. Neurocomputing, 2016, 214, 317-328.	5.9	24
22	A Quality-Based Nonlinear Fault Diagnosis Framework Focusing on Industrial Multimode Batch Processes. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	7.9	66
23	Canonical correlation analysis-based fault detection methods with application to alumina evaporation process. Control Engineering Practice, 2016, 46, 51-58.	5.5	171
24	Quality-relevant fault monitoring based on efficient projection to latent structures with application to hot strip mill process. IET Control Theory and Applications, 2015, 9, 1135-1145.	2.1	35
25	A comparison and evaluation of key performance indicator-based multivariate statistics process monitoring approaches. Journal of Process Control, 2015, 33, 112-126.	3.3	164
26	New kernel independent and principal components analysis-based process monitoring approach with application to hot strip mill process. IET Control Theory and Applications, 2014, 8, 1723-1731.	2.1	22
27	A data-driven multiplicative fault diagnosis approach for automation processes. ISA Transactions, 2014, 53, 1436-1445.	5.7	55
28	Quality-Related Process Monitoring Based on Total Kernel PLS Model and Its Industrial Application. Mathematical Problems in Engineering, 2013, 2013, 1-14.	1.1	81