

# Kaixiang Peng

## List of Publications by Citations

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93  
papers

1,631  
citations

21  
h-index

38  
g-index

116  
ext. papers

2,219  
ext. citations

4.3  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
93	A Novel Scheme for Key Performance Indicator Prediction and Diagnosis With Application to an Industrial Hot Strip Mill. <i>IEEE Transactions on Industrial Informatics</i> , <b>2013</b> , 9, 2239-2247	11.9	171
92	Adaptive Neural Control for Robotic Manipulators With Output Constraints and Uncertainties. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 5554-5564	10.3	159
91	A comparison and evaluation of key performance indicator-based multivariate statistics process monitoring approaches. <i>Journal of Process Control</i> , <b>2015</b> , 33, 112-126	3.9	129
90	Contribution rate plot for nonlinear quality-related fault diagnosis with application to the hot strip mill process. <i>Control Engineering Practice</i> , <b>2013</b> , 21, 360-369	3.9	76
89	Performance-based fault detection and fault-tolerant control for automatic control systems. <i>Automatica</i> , <b>2019</b> , 99, 308-316	5.7	63
88	Adaptive total PLS based quality-relevant process monitoring with application to the Tennessee Eastman process. <i>Neurocomputing</i> , <b>2015</b> , 154, 77-85	5.4	60
87	Quality-related fault detection using linear and nonlinear principal component regression. <i>Journal of the Franklin Institute</i> , <b>2016</b> , 353, 2159-2177	4	56
86	Robust recursive filtering for uncertain stochastic systems with amplify-and-forward relays. <i>International Journal of Systems Science</i> , <b>2020</b> , 51, 1188-1199	2.3	54
85	Quality-Related Process Monitoring Based on Total Kernel PLS Model and Its Industrial Application. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-14	1.1	52
84	A deep belief network based health indicator construction and remaining useful life prediction using improved particle filter. <i>Neurocomputing</i> , <b>2019</b> , 361, 19-28	5.4	46
83	Quality-relevant fault detection and diagnosis for hot strip mill process with multi-specification and multi-batch measurements. <i>Journal of the Franklin Institute</i> , <b>2015</b> , 352, 987-1006	4	44
82	Quality-related prediction and monitoring of multi-mode processes using multiple PLS with application to an industrial hot strip mill. <i>Neurocomputing</i> , <b>2015</b> , 168, 1094-1103	5.4	39
81	A novel data-based quality-related fault diagnosis scheme for fault detection and root cause diagnosis with application to hot strip mill process. <i>Control Engineering Practice</i> , <b>2017</b> , 67, 43-51	3.9	32
80	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> , <b>2018</b> , 14, 4841-4850	11.9	31
79	Remaining Useful Life Prediction of Lithium-Ion Batteries Based on Conditional Variational Autoencoders-Particle Filter. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 8831-8843	5.2	31
78	A KPI-based process monitoring and fault detection framework for large-scale processes. <i>ISA Transactions</i> , <b>2017</b> , 68, 276-286	5.5	24
77	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> , <b>2015</b> , 9, 1135-1145	2.5	24

76	Root cause diagnosis of quality-related faults in industrial multimode processes using robust Gaussian mixture model and transfer entropy. <i>Neurocomputing</i> , <b>2018</b> , 285, 60-73	5.4	24
75	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 2091-2100	11.9	24
74	A Fault Detection Approach for Nonlinear Systems Based on Data-Driven Realizations of Fuzzy Kernel Representations. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2018</b> , 26, 1800-1812	8.3	23
73	Strip shape modeling and its setup strategy in hot strip mill process. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 72, 589-605	3.2	22
72	A novel dynamic non-Gaussian approach for quality-related fault diagnosis with application to the hot strip mill process. <i>Journal of the Franklin Institute</i> , <b>2017</b> , 354, 702-721	4	21
71	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 1316-1327	8.9	21
70	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> , <b>2014</b> , 8, 1723-1731	2.5	19
69	Quality-related process monitoring for dynamic non-Gaussian batch process with multi-phase using a new data-driven method. <i>Neurocomputing</i> , <b>2016</b> , 214, 317-328	5.4	18
68	Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 4091-4101	7.3	18
67	Modelling the strip thickness in hot steel rolling mills using least-squares support vector machines. <i>Canadian Journal of Chemical Engineering</i> , <b>2018</b> , 96, 171-178	2.3	18
66	Implementing multivariate statistics-based process monitoring: A comparison of basic data modeling approaches. <i>Neurocomputing</i> , <b>2018</b> , 290, 172-184	5.4	16
65	Online Monitoring System Design for Roll Eccentricity in Rolling Mills. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 2559-2568	8.9	15
64	Assessment of T2- and Q-statistics for detecting additive and multiplicative faults in multivariate statistical process monitoring. <i>Journal of the Franklin Institute</i> , <b>2017</b> , 354, 668-688	4	15
63	An incipient fault detection and self-learning identification method based on robust SVDD and RBM-PNN. <i>Journal of Process Control</i> , <b>2020</b> , 85, 173-183	3.9	15
62	Double-Layer Distributed Monitoring Based on Sequential Correlation Information for Large-Scale Industrial Processes in Dynamic and Static States. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 6419-6428	11.9	15
61	Performance-Based Fault-Tolerant Control Approaches For Industrial Processes With Multiplicative Faults. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 4759-4768	11.9	14
60	A Deep Belief Network-based Fault Detection Method for Nonlinear Processes. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 9-14	0.7	14
59	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> , <b>2017</b> , 67, 56-66	5.5	13

58	Joint Data-Driven Fault Diagnosis Integrating Causality Graph With Statistical Process Monitoring for Complex Industrial Processes. <i>IEEE Access</i> , <b>2017</b> , 5, 25217-25225	3.5	13
57	A Correlation-Based Distributed Fault Detection Method and Its Application to a Hot Tandem Rolling Mill Process. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 2380-2390	8.9	13
56	Event-triggered fault detection framework based on subspace identification method for the networked control systems. <i>Neurocomputing</i> , <b>2017</b> , 239, 257-267	5.4	11
55	Online Contribution Rate Based Fault Diagnosis for Nonlinear Industrial Processes. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , <b>2014</b> , 40, 423-430		11
54	A practical propagation path identification scheme for quality-related faults based on nonlinear dynamic latent variable model and partitioned Bayesian network. <i>Journal of the Franklin Institute</i> , <b>2018</b> , 355, 7570-7594	4	10
53	A new data-driven process monitoring scheme for key performance indicators with application to hot strip mill process. <i>Journal of the Franklin Institute</i> , <b>2014</b> , 351, 4555-4569	4	10
52	Data-driven design of fault-tolerant control systems based on recursive stable image representation. <i>Automatica</i> , <b>2020</b> , 122, 109246	5.7	10
51	Boundary Output Feedback Control for a Flexible Two-Link Manipulator System With High-Gain Observers. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 835-840	4.8	10
50	Data-Driven Quality Monitoring Techniques for Distributed Parameter Systems With Application to Hot-Rolled Strip Laminate Cooling Process. <i>IEEE Access</i> , <b>2018</b> , 6, 16646-16654	3.5	9
49	Fuzzy Fault Detection Filter Design for Nonlinear Distributed Parameter Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 11105-11113	3.5	8
48	A data-driven fault detection approach with performance optimization. <i>Canadian Journal of Chemical Engineering</i> , <b>2018</b> , 96, 507-514	2.3	7
47	A novel industrial process monitoring method based on improved local tangent space alignment algorithm. <i>Neurocomputing</i> , <b>2020</b> , 405, 114-125	5.4	7
46	Remaining Useful Life Prediction for a Roller in a Hot Strip Mill Based on Deep Recurrent Neural Networks. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2021</b> , 8, 1345-1354	7	7
45	Robust Backstepping Control for Cold Rolling Main Drive System with Nonlinear Uncertainties. <i>Abstract and Applied Analysis</i> , <b>2013</b> , 2013, 1-7	0.7	6
44	A New Hierarchical Framework for Detection and Isolation of Multiple Faults in Complex Industrial Processes. <i>IEEE Access</i> , <b>2019</b> , 7, 12006-12015	3.5	5
43	Fault detection for piecewise affine systems with application to ship propulsion systems. <i>ISA Transactions</i> , <b>2018</b> , 78, 3-9	5.5	5
42	A nonlinear full condition process monitoring method for hot rolling process with dynamic characteristic. <i>ISA Transactions</i> , <b>2021</b> , 112, 363-372	5.5	5
41	A novel key performance indicator oriented hierarchical monitoring and propagation path identification framework for complex industrial processes. <i>ISA Transactions</i> , <b>2020</b> , 96, 1-13	5.5	5

40	Nonlinear quality-related fault detection using combined deep variational information bottleneck and variational autoencoder. <i>ISA Transactions</i> , <b>2021</b> , 114, 444-454	5.5	5
39	A novel plant-wide process monitoring framework based on distributed Gap-SVDD with adaptive radius. <i>Neurocomputing</i> , <b>2019</b> , 350, 1-12	5.4	4
38	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 2946-2955	11.9	4
37	Time-Varying Fault Diagnosis for Asynchronous Multisensor Systems Based on Augmented IMM and Strong Tracking Filtering. <i>Journal of Control Science and Engineering</i> , <b>2018</b> , 2018, 1-8	1.2	4
36	Quality Monitoring and Root Cause Diagnosis for Industrial Processes Based on Lasso-SAE-CCA. <i>IEEE Access</i> , <b>2019</b> , 7, 90230-90242	3.5	3
35	Intermittent Fault Detection for Uncertain Networked Systems. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-10	1.1	3
34	A new multimode process monitoring method based on a hierarchical Dirichlet processHidden semi-Markov model with application to the hot steel strip mill process. <i>Control Engineering Practice</i> , <b>2021</b> , 110, 104767	3.9	3
33	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> , <b>2021</b> , 17, 6466-6475	11.9	3
32	Recursive Subspace-based Predictive Control and Its Application to Fault-tolerant Control. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 696-702	0.7	3
31	An Efficient Quality-Related Fault Diagnosis Method for Real-Time Multimode Industrial Process. <i>Journal of Control Science and Engineering</i> , <b>2017</b> , 2017, 1-13	1.2	2
30	. <i>IEEE Access</i> , <b>2018</b> , 6, 43808-43823	3.5	2
29	Unit-level modelling for KPI of batch hot strip mill process using dynamic partial least squares. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 1005-1010	0.7	2
28	Wide Area Coordinated Control of Multi-FACTS Devices to Damp Power System Oscillations. <i>Energies</i> , <b>2017</b> , 10, 2130	3.1	2
27	Vector control of induction motor based on online identification and ant colony optimization <b>2010</b> ,		2
26	Sensor and Actuator Fault Diagnosis for Robot Joint Based on Deep CNN. <i>Entropy</i> , <b>2021</b> , 23,	2.8	2
25	Remaining Useful Life Prediction for Aircraft Engines Based on Grey Model <b>2019</b> ,		2
24	A Practical Root Cause Diagnosis Framework for Quality-Related Faults in Manufacturing Processes With Irregular Sampling Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-9	5.2	2
23	Routh table test for stability of commensurate fractional degree polynomials and their commensurate fractional order systems. <i>Control Theory and Technology</i> , <b>2019</b> , 17, 297-306	1	1

22	Integration of fault diagnosis and control based on residual decoupling. <i>Systems Science and Control Engineering</i> , <b>2019</b> , 7, 210-221	2	1
21	A Novel Fault Detection Method Based on the Extraction of Slow Features for Dynamic Nonstationary Processes. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	1
20	Just-in-Time Learning-Based Soft Sensor for Mechanical Properties of Strip Steel via Multi-Block Weighted Semisupervised Models. <i>IEEE Access</i> , <b>2020</b> , 8, 123869-123881	3.5	1
19	A novel common and specific features extraction-based process monitoring approach with application to a hot rolling mill process. <i>Control Engineering Practice</i> , <b>2020</b> , 104, 104628	3.9	1
18	Local multi-model integrated soft sensor based on just-in-time learning for mechanical properties of hot strip mill process. <i>Journal of Iron and Steel Research International</i> , <b>2021</b> , 28, 830-841	1.2	1
17	A Health Indicator Construction Method based on Deep Belief Network for Remaining Useful Life Prediction <b>2019</b> ,		1
16	Distributed Optimization Over Unbalanced Graph: Integration of Surplus-Based Method and Push-DIGing Method <b>2019</b> ,		1
15	A lifecycle operating performance assessment framework for hot strip mill process based on robust kernel canonical variable analysis. <i>Control Engineering Practice</i> , <b>2021</b> , 107, 104698	3.9	1
14	An extensible quality-related fault isolation framework based on dual broad partial least squares with application to the hot rolling process. <i>Expert Systems With Applications</i> , <b>2021</b> , 167, 114166	7.8	1
13	An output probabilistic constrained control algorithm based on adaptive dynamic matrix control <b>2018</b> ,		1
12	Remaining Useful Life Estimation Based on Asynchronous Multisource Monitoring Information Fusion. <i>Journal of Control Science and Engineering</i> , <b>2017</b> , 2017, 1-8	1.2	0
11	Monitoring of Nonlinear Processes With Multiple Operating Modes Through a Novel Gaussian Mixture Variational Autoencoder Model. <i>IEEE Access</i> , <b>2020</b> , 8, 114487-114500	3.5	0
10	A novel semisupervised classification framework for coupling faults in hot rolling mill process. <i>ISA Transactions</i> , <b>2021</b> , 111, 376-386	5.5	0
9	A Residual Generator-Based Plug and Play Control Scheme Toward Enhancing Power Quality in AC Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	0
8	Fault detection and quantitative assessment method for process industry based on feature fusion. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2022</b> , 197, 111267	4.6	0
7	Nonlinear Fault Detection Based on Fault-related Multiphase Principle Polynomial Analysis for Al Stack Etch Process. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 11860-11865	0.7	
6	A Novel Propagation Path Identification Framework for Faults in Industrial Processes. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 11878-11882	0.7	
5	Multimode Process Monitoring and Fault Diagnosis Based on Tensor Decomposition. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 120-125	0.7	

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| 4 | A recursive model of residual life prediction for human beings with health information from activities of daily living and memory. <i>Systems Science and Control Engineering</i> , <b>2021</b> , 9, 529-541 | 2   |
| 3 | . <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-8   | 4.8 |
| 2 | Modeling and Monitoring for Laminar Cooling Process of Hot Steel Strip Rolling with TimeSpace Nature. <i>Processes</i> , <b>2022</b> , 10, 589   | 2.9 |
| 1 | Exponentially convergent distributed Nash equilibrium seeking for constrained aggregative games. <i>Autonomous Intelligent Systems</i> , <b>2022</b> , 2, 1  |     |