Xu Yang

List of Publications by Year
in descending order

56 papers	676 citations	623734 14 h-index	610901 24 g-index
56 all docs	56 docs citations	56 times ranked	541 citing authors

#	Article	IF	Citations
1	Fault detection for chemical processes based on non-stationarity sensitive cointegration analysis. ISA Transactions, 2022, 129, 321-333.	5.7	6
2	Double-Layer Distributed Monitoring Based on Sequential Correlation Information for Large-Scale Industrial Processes in Dynamic and Static States. IEEE Transactions on Industrial Informatics, 2021, 17, 6419-6428.	11.3	35
3	Mean-Square Admissibility Analysis and Controller Design for ItÃ´-Type Stochastic Singular Systems. IEEE Access, 2021, 9, 54360-54368.	4.2	0
4	Stripe order in the doped Hubbard model on the honeycomb lattice. Physical Review B, 2021, 103, .	3.2	7
5	Data-driven design of fault detection and isolation method for distributed homogeneous systems. Journal of the Franklin Institute, 2021, 358, 4929-4949.	3.4	13
6	Wavelet-based Synchroextracting Transform: An effective TFA tool for machinery fault diagnosis. Control Engineering Practice, 2021, 114, 104884.	5.5	24
7	Discovery of segmented Fermi surface induced by Cooper pair momentum. Science, 2021, 374, 1381-1385.	12.6	45
8	Adaptive Weighting Strategy based Multi-sensor Data Fusion Method for Condition Monitoring of Reciprocating Pump. , 2021, , .		5
9	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
10	A KPI-Based Soft Sensor Development Approach Incorporating Infrequent, Variable Time Delayed Measurements. IEEE Transactions on Control Systems Technology, 2020, 28, 2523-2531.	5.2	23
11	Data-driven design of fault-tolerant control systems based on recursive stable image representation. Automatica, 2020, 122, 109246.	5.0	22
12	Soft sensor design for variable time delay and variable sampling time. Journal of Process Control, 2020, 92, 310-318.	3.3	12
13	A tunable and unidirectional one-dimensional electronic system Nb2n+1SinTe4n+2. Npj Quantum Materials, 2020, 5, .	5.2	15
14	Robust Hot Electron and Multiple Topological Insulator States in PtBi$_2$. ACS Nano, 2020, 14, 2366-2372.	14.6	13
15	Data Quality Assessment for System Identification in the Age of Big Data and Industry 4.0. IFAC-PapersOnLine, 2020, 53, 104-113.	0.9	8
16	Soft Sensor Design for Restricted Variable Sampling Time. IFAC-PapersOnLine, 2020, 53, 80-85.	0.9	0
17	Fault Classification in Dynamic Processes Using Multiclass Relevance Vector Machine and Slow Feature Analysis. IEEE Access, 2020, 8, 9115-9123.	4.2	7
18	A Pattern-moving-Based Data-driven Control Method for a Kind of Industrial Production Processes. , 2020, , .		1

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19	An improved indoor thermal preference indicator based on distributed consensus algorithm. , 2020, , .		1
20	Improved random forest classification approach based on hybrid clustering selection. , 2020, , .		2
21	A Knowledge-based reinforcement learning control approach using deep Q network for cooling tower in HVAC systems. , 2020, , .		3
22	Soft sensing of alumina concentration in aluminum electrolysis industry based on deep belief network. , 2020, , .		2
23	Anode effect prediction method based on local effect detection. , 2020, , .		4
24	A comparison of OCMPM and OCSVM in motor and sensor fault detection for traction control system. , 2019, , .		0
25	A distributed expectation maximization-principal component analysis monitoring scheme for the large-scale industrial process with incomplete information. International Journal of Distributed Sensor Networks, 2019, 15, 155014771988549.	2.2	1
26	Simultaneous Robust, Decoupled Output Feedback Control for Multivariate Industrial Systems. IEEE Access, 2018, 6, 6777-6782.	4.2	4
27	A Plug-and-Play Monitoring and Control Architecture for Disturbance Compensation in Rolling Mills. IEEE/ASME Transactions on Mechatronics, 2018, 23, 200-210.	5.8	69
28	A data‒driven fault detection approach with performance optimization. Canadian Journal of Chemical Engineering, 2018, 96, 507-514.	1.7	9
29	Modelling the strip thickness in hot steel rolling mills using least‒squares support vector machines. Canadian Journal of Chemical Engineering, 2018, 96, 171-178.	1.7	27
30	An Soft Crowbar Control Approach for Fault Ride-Through Enhancement in Doubly Fed Induction Wind Power Generation. , 2018, , .		0
31	A Prediction Approach on Energy Consumption for Public Buildings Using Mind Evolutionary Algorithm and BP Neural Network. , 2018, , .		4
32	Development and Industrial Application of a Soft Sensor using Markov Random Fields. , 2018, , .		1
33	Recursive Subspace-based Predictive Control and Its Application to Fault-tolerant Control. IFAC-PapersOnLine, 2018, 51, 696-702.	0.9	4
34	Robust decoupling mixed sensitivity controller design of looper control system for hot strip mill process. Advances in Mechanical Engineering, 2018, 10, 168781401881028.	1.6	2
35	An ADRC-Based Control Strategy for FRT Improvement of Wind Power Generation with a Doubly-Fed Induction Generator. Energies, 2018, 11, 1150.	3.1	14
36	A KPI-Based Probabilistic Soft Sensor Development Approach that Maximizes the Coefficient of Determination. Sensors, 2018, 18, 3058.	3.8	11

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37	Comparison of Two Performance Optimization Approaches for Data-Driven Design of Fault-Tolerant Control Systems. , 2018, , .		1
38	Real-Time Optimization of Automatic Control Systems With Application to BLDC Motor Test Rig. IEEE Transactions on Industrial Electronics, 2017, 64, 4306-4314.	7.9	43
39	A KPI-based process monitoring and fault detection framework for large-scale processes. ISA Transactions, 2017, 68, 276-286.	5.7	41
40	Comparison of Two Basic Statistics for Fault Detection and Process Monitoring. IFAC-PapersOnLine, 2017, 50, 14776-14781.	0.9	14
41	Soft sensor modeling based on PCA and LS-SVM for strip thickness in cold steel rolling mills. , 2017, , .		6
42	Coordinated control strategy of reactive power for large‐scale wind power transmission by LCC‐HVDC links. Journal of Engineering, 2017, 2017, 1082-1086.	1.1	6
43	Quantisation and data quality: Implications for system identification. Journal of Process Control, 2016, 40, 13-23.	3.3	4
44	Online Monitoring System Design for Roll Eccentricity in Rolling Mills. IEEE Transactions on Industrial Electronics, 2016, 63, 2559-2568.	7.9	21
45	Active Speed Compensation Method of Direct Torque Control System and Stability Analysis. Advances in Mechanical Engineering, 2015, 7, 971286.	1.6	0
46	Stability Analysis and Design of a Nonlinear Controller for Hot Rolling Coiler. Discrete Dynamics in Nature and Society, 2015, 2015, 1-15.	0.9	0
47	Data-driven process monitoring and fault tolerant control in wind energy conversion system with hydraulic pitch system. Journal of Shanghai Jiaotong University (Science), 2015, 20, 489-494.	0.9	2
48	A speed monitoring method in steel pipe of 3PE-coating process based on industrial Charge-coupled Device. , 2014, , .		0
49	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
50	A new data-driven process monitoring scheme for key performance indictors with application to hot strip mill process. Journal of the Franklin Institute, 2014, 351, 4555-4569.	3.4	14
51	Wavelet Analysis of Fluctuations in the Thickness of Cold-Rolled Strip. Metallurgist, 2013, 57, 606-611.	0.6	11
52	Robust Backstepping Control for Cold Rolling Main Drive System with Nonlinear Uncertainties. Abstract and Applied Analysis, 2013, 2013, 1-7.	0.7	7
53	Load Distribution of Evolutionary Algorithm for Complex-Process Optimization Based on Differential Evolutionary Strategy in Hot Rolling Process. Mathematical Problems in Engineering, 2013, 2013, 1-8.	1.1	4
54	Vertical Vibration Model for Unsteady Lubrication in Rolls-Strip Interface of Cold Rolling Mills. Advances in Mechanical Engineering, 2012, 4, 734510.	1.6	15

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55	Kernel Optimization Based Semi-Supervised KBDA Scheme for Image Retrieval. IEICE Transactions on Information and Systems, 2011, E94-D, 1901-1908.	0.7	0
56	Coupling dynamic model of chatter for cold rolling. Journal of Iron and Steel Research International, 2010, 17, 30-34.	2.8	36