

Chunhua Yang

List of Publications by Year in descending order

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333
papers

9,110
citations

38660

50
h-index

62479

80
g-index

333
all docs

333
docs citations

333
times ranked

5521
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning-Based Feature Representation and Its Application for Soft Sensor Modeling With Variable-Wise Weighted SAE. IEEE Transactions on Industrial Informatics, 2018, 14, 3235-3243.	7.2	447
2	A novel deep learning based fault diagnosis approach for chemical process with extended deep belief network. ISA Transactions, 2020, 96, 457-467.	3.1	280
3	Fault Detection for Non-Gaussian Processes Using Generalized Canonical Correlation Analysis and Randomized Algorithms. IEEE Transactions on Industrial Electronics, 2018, 65, 1559-1567.	5.2	246
4	Automated Visual Defect Detection for Flat Steel Surface: A Survey. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 626-644.	2.4	242
5	A Distributed Dynamic Event-Triggered Control Approach to Consensus of Linear Multiagent Systems With Directed Networks. IEEE Transactions on Cybernetics, 2020, 50, 869-874.	6.2	237
6	Deep Learning With Spatiotemporal Attention-Based LSTM for Industrial Soft Sensor Model Development. IEEE Transactions on Industrial Electronics, 2021, 68, 4404-4414.	5.2	234
7	Set stability and set stabilization of Boolean control networks based on invariant subsets. Automatica, 2015, 61, 106-112.	3.0	214
8	Passivity-Based Asynchronous Sliding Mode Control for Delayed Singular Markovian Jump Systems. IEEE Transactions on Automatic Control, 2018, 63, 2715-2721.	3.6	186
9	Hierarchical Quality-Relevant Feature Representation for Soft Sensor Modeling: A Novel Deep Learning Strategy. IEEE Transactions on Industrial Informatics, 2020, 16, 3721-3730.	7.2	176
10	Weighted Linear Dynamic System for Feature Representation and Soft Sensor Application in Nonlinear Dynamic Industrial Processes. IEEE Transactions on Industrial Electronics, 2018, 65, 1508-1517.	5.2	144
11	State transition algorithm. Journal of Industrial and Management Optimization, 2012, 8, 1039-1056.	0.8	137
12	Non-ferrous metals price forecasting based on variational mode decomposition and LSTM network. Knowledge-Based Systems, 2020, 188, 105006.	4.0	136
13	A Distributed Canonical Correlation Analysis-Based Fault Detection Method for Plant-Wide Process Monitoring. IEEE Transactions on Industrial Informatics, 2019, 15, 2710-2720.	7.2	110
14	Distributed Consensus of Second-Order Multiagent Systems With Nonconvex Velocity and Control Input Constraints. IEEE Transactions on Automatic Control, 2018, 63, 1171-1176.	3.6	101
15	Event-Based Fault Detection Filtering for Complex Networked Jump Systems. IEEE/ASME Transactions on Mechatronics, 2018, 23, 497-505.	3.7	99
16	A Fault-Injection Strategy for Traction Drive Control Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 5719-5727.	5.2	91
17	Soft Sensor Modeling of Nonlinear Industrial Processes Based on Weighted Probabilistic Projection Regression. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 837-845.	2.4	87
18	Deep learning for fault-relevant feature extraction and fault classification with stacked supervised auto-encoder. Journal of Process Control, 2020, 92, 79-89.	1.7	84

#	ARTICLE	IF	CITATIONS
19	Distributed Optimization With Nonconvex Velocity Constraints, Nonuniform Position Constraints, and Nonuniform Stepsizes. IEEE Transactions on Automatic Control, 2019, 64, 2575-2582.	3.6	81
20	Deep quality-related feature extraction for soft sensing modeling: A deep learning approach with hybrid VW-SAE. Neurocomputing, 2020, 396, 375-382.	3.5	78
21	A Just-In-Time-Learning-Aided Canonical Correlation Analysis Method for Multimode Process Monitoring and Fault Detection. IEEE Transactions on Industrial Electronics, 2021, 68, 5259-5270.	5.2	78
22	Finite-time asynchronous sliding mode control for Markovian jump systems. Automatica, 2019, 109, 108503.	3.0	76
23	Nonlinear system identification and control using state transition algorithm. Applied Mathematics and Computation, 2014, 226, 169-179.	1.4	74
24	Exponential Stability Analysis for Delayed Semi-Markovian Recurrent Neural Networks: A Homogeneous Polynomial Approach. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6374-6384.	7.2	73
25	A Hybrid Feature Selection Method Based on Binary State Transition Algorithm and ReliefF. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1888-1898.	3.9	72
26	Voltage Difference Residual-Based Open-Circuit Fault Diagnosis Approach for Three-Level Converters in Electric Traction Systems. IEEE Transactions on Power Electronics, 2020, 35, 3012-3028.	5.4	69
27	Event based guaranteed cost consensus for distributed multi-agent systems. Journal of the Franklin Institute, 2015, 352, 3546-3563.	1.9	67
28	A comprehensive hybrid first principles/machine learning modeling framework for complex industrial processes. Journal of Process Control, 2020, 86, 30-43.	1.7	67
29	Color co-occurrence matrix based froth image texture extraction for mineral flotation. Minerals Engineering, 2013, 46-47, 60-67.	1.8	65
30	Automated Visual Defect Classification for Flat Steel Surface: A Survey. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9329-9349.	2.4	65
31	Discrete state transition algorithm for unconstrained integer optimization problems. Neurocomputing, 2016, 173, 864-874.	3.5	64
32	Temperature Measurement and Compensation Method of Blast Furnace Molten Iron Based on Infrared Computer Vision. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3576-3588.	2.4	64
33	A Cumulative Canonical Correlation Analysis-Based Sensor Precision Degradation Detection Method. IEEE Transactions on Industrial Electronics, 2019, 66, 6321-6330.	5.2	63
34	A Deep Supervised Learning Framework for Data-Driven Soft Sensor Modeling of Industrial Processes. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4737-4746.	7.2	63
35	A novel semi-supervised pre-training strategy for deep networks and its application for quality variable prediction in industrial processes. Chemical Engineering Science, 2020, 217, 115509.	1.9	63
36	A Projective and Discriminative Dictionary Learning for High-Dimensional Process Monitoring With Industrial Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 558-568.	7.2	62

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37	A Novel Asynchronous Control for Artificial Delayed Markovian Jump Systems via Output Feedback Sliding Mode Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 364-374.	5.9	61
38	Deep learning for quality prediction of nonlinear dynamic processes with variable attention-based long short-term memory network. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1377-1389.	0.9	60
39	A new multi-threshold image segmentation approach using state transition algorithm. <i>Applied Mathematical Modelling</i> , 2017, 44, 588-601.	2.2	59
40	A Statistical Study on Parameter Selection of Operators in Continuous State Transition Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 3722-3730.	6.2	59
41	Soft sensor model for dynamic processes based on multichannel convolutional neural network. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 203, 104050.	1.8	59
42	Flotation process fault detection using output PDF of bubble size distribution. <i>Minerals Engineering</i> , 2012, 26, 5-12.	1.8	58
43	Hardware-in-the-Loop Fault Injection for Traction Control System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2018, 6, 696-706.	3.7	58
44	An Improved Homogeneous Polynomial Approach for Adaptive Sliding-Mode Control of Markov Jump Systems With Actuator Faults. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 955-969.	3.6	57
45	Distributed Continuous-Time and Discrete-Time Optimization With Nonuniform Unbounded Convex Constraint Sets and Nonuniform Stepsizes. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 5148-5155.	3.6	56
46	Multi-similarity measurement driven ensemble just-in-time learning for soft sensing of industrial processes. <i>Journal of Chemometrics</i> , 2018, 32, e3040.	0.7	55
47	Optimal control of an SIVRS epidemic spreading model with virus variation based on complex networks. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 48, 200-210.	1.7	54
48	Generalized Predictive Control for Industrial Processes Based on Neuron Adaptive Splitting and Merging RBF Neural Network. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 1192-1202.	5.2	54
49	A data-driven ground fault detection and isolation method for main circuit in railway electrical traction system. <i>ISA Transactions</i> , 2019, 87, 264-271.	3.1	54
50	Structure Dictionary Learning-Based Multimode Process Monitoring and its Application to Aluminum Electrolysis Process. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020, 17, 1989-2003.	3.4	54
51	Multimode process monitoring based on robust dictionary learning with application to aluminium electrolysis process. <i>Neurocomputing</i> , 2019, 332, 305-319.	3.5	53
52	A novel modularity-based discrete state transition algorithm for community detection in networks. <i>Neurocomputing</i> , 2019, 334, 89-99.	3.5	52
53	Integrated prediction model of bauxite concentrate grade based on distributed machine vision. <i>Minerals Engineering</i> , 2013, 53, 31-38.	1.8	49
54	An integrated predictive model with an on-line updating strategy for iron precipitation in zinc hydrometallurgy. <i>Hydrometallurgy</i> , 2015, 151, 62-72.	1.8	49

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55	Fractional-order PID controller tuning using continuous state transition algorithm. <i>Neural Computing and Applications</i> , 2018, 29, 795-804.	3.2	49
56	Heterogeneous cooperative belief for social dilemma in multi-agent system. <i>Applied Mathematics and Computation</i> , 2018, 320, 572-579.	1.4	48
57	Nonlinear process monitoring using kernel dictionary learning with application to aluminum electrolysis process. <i>Control Engineering Practice</i> , 2019, 89, 94-102.	3.2	48
58	A Uniform Modeling Method Based on Open-Circuit Faults Analysis for NPC-Three-Level Converter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019, 66, 457-461.	2.2	47
59	Surface Defect Classification for Hot-Rolled Steel Strips by Selectively Dominant Local Binary Patterns. <i>IEEE Access</i> , 2019, 7, 23488-23499.	2.6	47
60	Stability analysis and design of reset control systems with discrete-time triggering conditions. <i>Automatica</i> , 2012, 48, 528-535.	3.0	46
61	A dynamic state transition algorithm with application to sensor network localization. <i>Neurocomputing</i> , 2018, 273, 237-250.	3.5	46
62	Highly sensitive detection of Pb ²⁺ and Cu ²⁺ based on ZIF-67/MWCNT/Nafion-modified glassy carbon electrode. <i>Analytica Chimica Acta</i> , 2020, 1124, 166-175.	2.6	46
63	Reagent Addition Control for Stibium Rougher Flotation Based on Sensitive Froth Image Features. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 4199-4206.	5.2	45
64	Set-Point Tracking and Multi-Objective Optimization-Based PID Control for the Goethite Process. <i>IEEE Access</i> , 2018, 6, 36683-36698.	2.6	45
65	Sub-ppb SO ₂ gas sensor based on NASICON and La _x Sm _{1-x} FeO ₃ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 648-655.	4.0	44
66	A unified parameter identification method for nonlinear time-delay systems. <i>Journal of Industrial and Management Optimization</i> , 2013, 9, 471-486.	0.8	43
67	Dynamic multi-objective optimization arising in iron precipitation of zinc hydrometallurgy. <i>Hydrometallurgy</i> , 2017, 173, 134-148.	1.8	42
68	Containment Control for Discrete-Time Multiagent Systems With Communication Delays and Switching Topologies. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 3827-3830.	6.2	42
69	Distributed Containment Control of Continuous-Time Multiagent Systems With Nonconvex Control Input Constraints. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 7927-7934.	5.2	42
70	Mixed potential type sensor based on stabilized zirconia and Co _{1-x} Zn _x Fe ₂ O ₄ sensing electrode for detection of acetone. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1173-1181.	4.0	41
71	CeO ₂ -based mixed potential type acetone sensor using La _{1-x} Sr _x CoO ₃ sensing electrode. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 118-126.	4.0	40
72	Kinetic Modeling and Parameter Estimation for Competing Reactions in Copper Removal Process from Zinc Sulfate Solution. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17074-17086.	1.8	39

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73	Stability and Set Stability in Distribution of Probabilistic Boolean Networks. IEEE Transactions on Automatic Control, 2018, , 1-1.	3.6	39
74	Distributed dictionary learning for high-dimensional process monitoring. Control Engineering Practice, 2020, 98, 104386.	3.2	39
75	Complex networks-based texture extraction and classification method for mineral flotation froth images. Minerals Engineering, 2015, 83, 105-116.	1.8	38
76	Stacked isomorphic autoencoder based soft analyzer and its application to sulfur recovery unit. Information Sciences, 2020, 534, 72-84.	4.0	38
77	Recognition of the operational statuses of reagent addition using dynamic bubble size distribution in copper flotation process. Minerals Engineering, 2013, 45, 128-141.	1.8	36
78	Probability density function of bubble size based reagent dosage predictive control for copper roughing flotation. Control Engineering Practice, 2014, 29, 1-12.	3.2	36
79	Highly sensitive gas sensor based on stabilized zirconia and CdMoO ₄ sensing electrode for detection of acetone. Sensors and Actuators B: Chemical, 2017, 248, 9-18.	4.0	36
80	Decentralized stabilization of large-scale feedforward systems using saturated delayed controls. Automatica, 2012, 48, 89-94.	3.0	35
81	Probabilistic density-based regression model for soft sensing of nonlinear industrial processes. Journal of Process Control, 2017, 57, 15-25.	1.7	34
82	Noise-robust self-adaptive support vector machine for residual oxygen concentration measurement. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	2.4	34
83	A Novel Device for Optical Imaging of Blast Furnace Burden Surface: Parallel Low-Light-Loss Backlight High-Temperature Industrial Endoscope. IEEE Sensors Journal, 2016, 16, 6703-6717.	2.4	33
84	Process working condition recognition based on the fusion of morphological and pixel set features of froth for froth flotation. Minerals Engineering, 2018, 128, 17-26.	1.8	33
85	Headspace Oxygen Concentration Measurement for Pharmaceutical Glass Bottles in Open-Path Optical Environment Using TDLAS/WMS. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5828-5842.	2.4	33
86	A class of optimal state-delay control problems. Nonlinear Analysis: Real World Applications, 2013, 14, 1536-1550.	0.9	32
87	Nonparametric density estimation of froth colour texture distribution for monitoring sulphur flotation process. Minerals Engineering, 2013, 53, 203-212.	1.8	32
88	YSZ-based mixed potential H ₂ S sensor using La ₂ NiO ₄ sensing electrode. Sensors and Actuators B: Chemical, 2018, 255, 3033-3039.	4.0	32
89	Effects of external forcing on evolutionary games in complex networks. Chaos, 2018, 28, 093108.	1.0	32
90	A novel fault diagnosis method based on optimal relevance vector machine. Neurocomputing, 2017, 267, 651-663.	3.5	31

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91	Modeling and optimal-setting control of blending process in a metallurgical industry. Computers and Chemical Engineering, 2009, 33, 1289-1297.	2.0	30
92	A Two-stage State Transition Algorithm for Constrained Engineering Optimization Problems. International Journal of Control, Automation and Systems, 2018, 16, 522-534.	1.6	30
93	Baseline correction for Raman spectra using penalized spline smoothing based on vector transformation. Analytical Methods, 2018, 10, 3525-3533.	1.3	30
94	Hybrid intelligent control of gas collectors of coke ovens. Control Engineering Practice, 2001, 9, 725-733.	3.2	29
95	Evaluation strategy for the control of the copper removal process based on oxidation-reduction potential. Chemical Engineering Journal, 2016, 284, 294-304.	6.6	29
96	Understanding cooperative behavior of agents with heterogeneous perceptions in dynamic networks. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 234-240.	1.2	29
97	A novel robust data reconciliation method for industrial processes. Control Engineering Practice, 2019, 83, 203-212.	3.2	29
98	Temperature Uniformity Control of Large-Scale Vertical Quench Furnaces for Aluminum Alloy Thermal Treatment. IEEE Transactions on Control Systems Technology, 2016, 24, 24-39.	3.2	28
99	Initial Version of State Transition Algorithm. , 2011, , .		27
100	A Hybrid Control Strategy for Real-Time Control of the Iron Removal Process of the Zinc Hydrometallurgy Plants. IEEE Transactions on Industrial Informatics, 2018, 14, 5278-5288.	7.2	27
101	Modeling, optimization, and control of solution purification process in zinc hydrometallurgy. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 564-576.	8.5	26
102	Dynamic optimization based on state transition algorithm for copper removal process. Neural Computing and Applications, 2019, 31, 2827-2839.	3.2	26
103	CeO ₂ -based mixed potential type acetone sensor using MMnO ₃ (M: Sr, Ca, La and Sm) sensing electrode. Solid State Ionics, 2018, 317, 53-59.	1.3	25
104	Time-optimal state feedback stabilization of switched Boolean control networks. Neurocomputing, 2017, 237, 265-271.	3.5	24
105	Fractional order fuzzy PID optimal control in copper removal process of zinc hydrometallurgy. Hydrometallurgy, 2018, 178, 60-76.	1.8	24
106	A data-driven optimal control approach for solution purification process. Journal of Process Control, 2018, 68, 171-185.	1.7	24
107	Dynamic Optimization for Copper Removal Process With Continuous Production Constraints. IEEE Transactions on Industrial Informatics, 2020, 16, 7255-7263.	7.2	24
108	Multivariate Regression Model for Industrial Process Measurement Based on Double Locally Weighted Partial Least Squares. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3962-3971.	2.4	23

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109	Parameter selection of support vector regression based on hybrid optimization algorithm and its application. <i>Journal of Control Theory and Applications</i> , 2005, 3, 371-376.	0.8	22
110	Wet grindability of an industrial ore and its breakage parameters estimation using population balances. <i>International Journal of Mineral Processing</i> , 2011, 98, 113-117.	2.6	22
111	A Novel Cognitively Inspired State Transition Algorithm for Solving the Linear Bi-Level Programming Problem. <i>Cognitive Computation</i> , 2018, 10, 816-826.	3.6	22
112	Asynchronous Filtering for Delayed Markovian Jump Systems via Homogeneous Polynomial Approach. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 2163-2170.	3.6	22
113	An integrated prediction model of heavy metal ion concentration for iron electrocoagulation process. <i>Chemical Engineering Journal</i> , 2020, 391, 123628.	6.6	22
114	Time-delay estimation for nonlinear systems with piecewise-constant input. <i>Applied Mathematics and Computation</i> , 2013, 219, 9543-9560.	1.4	21
115	Dynamic simulation and test research of impact performance of hydraulic rock drill with no constant-pressurized chamber. <i>Automation in Construction</i> , 2014, 37, 211-216.	4.8	21
116	State-transition-algorithm-based resolution for overlapping linear sweep voltammetric peaks with high signal ratio. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 151, 61-70.	1.8	21
117	Additive requirement ratio prediction using trend distribution features for hydrometallurgical purification processes. <i>Control Engineering Practice</i> , 2016, 46, 10-25.	3.2	21
118	A novel non-uniform control vector parameterization approach with time grid refinement for flight level tracking optimal control problems. <i>ISA Transactions</i> , 2018, 73, 66-78.	3.1	21
119	A hybrid feature selection method for production condition recognition in froth flotation with noisy labels. <i>Minerals Engineering</i> , 2020, 153, 106201.	1.8	21
120	Baseline correction method based on doubly reweighted penalized least squares. <i>Applied Optics</i> , 2019, 58, 3913.	0.9	21
121	An optimal power-dispatching system using neural networks for the electrochemical process of zinc depending on varying prices of electricity. <i>IEEE Transactions on Neural Networks</i> , 2002, 13, 229-236.	4.8	20
122	Semantic Network Based on Intuitionistic Fuzzy Directed Hyper-Graphs and Application to Aluminum Electrolysis Cell Condition Identification. <i>IEEE Access</i> , 2017, 5, 20145-20156.	2.6	20
123	Controllable-Domain-Based Fuzzy Rule Extraction for Copper Removal Process Control. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 1744-1756.	6.5	20
124	Energy-aware scheduling for information fusion in wireless sensor network surveillance. <i>Information Fusion</i> , 2019, 48, 95-106.	11.7	20
125	Optimizing zinc electrowinning processes with current switching via Deep Deterministic Policy Gradient learning. <i>Neurocomputing</i> , 2020, 380, 190-200.	3.5	20
126	Using hybrid normalization technique and state transition algorithm to VIKOR method for influence maximization problem. <i>Neurocomputing</i> , 2020, 410, 41-50.	3.5	20

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127	Causal augmented ConvNet: A temporal memory dilated convolution model for long-sequence time series prediction. ISA Transactions, 2022, 123, 200-217.	3.1	20
128	A gradient optimization scheme for solution purification process. Control Engineering Practice, 2015, 44, 89-103.	3.2	19
129	Combined fuzzy based feedforward and bubble size distribution based feedback control for reagent dosage in copper roughing process. Journal of Process Control, 2016, 39, 50-63.	1.7	19
130	Redefined observability matrix for Boolean networks and distinguishable partitions of state space. Automatica, 2018, 91, 316-319.	3.0	19
131	Asynchronous output feedback control for fuzzy Markovian jump systems via sliding mode. Journal of the Franklin Institute, 2019, 356, 8952-8970.	1.9	19
132	A trend-based event-triggering fuzzy controller for the stabilizing control of a large-scale zinc roaster. Journal of Process Control, 2021, 97, 59-71.	1.7	19
133	Functional deep echo state network improved by a bi-level optimization approach for multivariate time series classification. Applied Soft Computing Journal, 2021, 106, 107314.	4.1	19
134	An optimal power-dispatching control system for the electrochemical process of zinc based on backpropagation and hopfield neural networks. IEEE Transactions on Industrial Electronics, 2003, 50, 953-961.	5.2	18
135	Temperature Measurement Method for Blast Furnace Molten Iron Based on Infrared Thermography and Temperature Reduction Model. Sensors, 2018, 18, 3792.	2.1	18
136	Swarm intelligence inspired cooperation promotion and symmetry breaking in interdependent networked game. Chaos, 2019, 29, 043101.	1.0	18
137	Energy Consumption Forecasting for the Nonferrous Metallurgy Industry Using Hybrid Support Vector Regression with an Adaptive State Transition Algorithm. Cognitive Computation, 2020, 12, 357-368.	3.6	18
138	Application of highlight removal and multivariate image analysis to color measurement of flotation bubble images. International Journal of Imaging Systems and Technology, 2009, 19, 316-322.	2.7	17
139	Hybrid modeling of an industrial grinding-classification process. Powder Technology, 2015, 279, 75-85.	2.1	17
140	Weighted-coupling CSTR modeling and model predictive control with parameter adaptive correction for the goethite process. Journal of Process Control, 2018, 68, 254-267.	1.7	17
141	A new transformation into state transition algorithm for finding the global minimum. , 2011, , .		16
142	Multi-model soft measurement method of the froth layer thickness based on visual features. Chemometrics and Intelligent Laboratory Systems, 2016, 154, 112-121.	1.8	16
143	An effective fault diagnosis approach based on optimal weighted least squares support vector machine. Canadian Journal of Chemical Engineering, 2017, 95, 2357-2366.	0.9	16
144	Improved CCM for variable causality detection in complex systems. Control Engineering Practice, 2019, 83, 67-82.	3.2	16

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145	Kernel intuitionistic fuzzy c-means and state transition algorithm for clustering problem. <i>Soft Computing</i> , 2020, 24, 15507-15518.	2.1	16
146	A Comparative Study of State Transition Algorithm with Harmony Search and Artificial Bee Colony. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 651-659.	0.5	16
147	Recognition of flooding and sinking conditions in flotation process using soft measurement of froth surface level and QTA. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 169, 45-52.	1.8	15
148	Layered online data reconciliation strategy with multiple modes for industrial processes. <i>Control Engineering Practice</i> , 2018, 77, 63-72.	3.2	15
149	Optimal Setting and Control Strategy for Industrial Process Based on Discrete-Time Fractional-Order PI ^{λ} D ^{μ} . <i>IEEE Access</i> , 2019, 7, 47747-47761.	2.6	15
150	A New Data-Driven Model-Free Adaptive Control for Discrete-Time Nonlinear Systems. <i>IEEE Access</i> , 2019, 7, 126224-126233.	2.6	15
151	Dynamic Analysis and Finite-Time Synchronization of a New Hyperchaotic System With Coexisting Attractors. <i>IEEE Access</i> , 2019, 7, 52896-52902.	2.6	15
152	Design and implementation of finite time sliding mode controller for fuzzy overhead crane system. <i>ISA Transactions</i> , 2022, 124, 374-385.	3.1	15
153	Cost-sensitive large margin distribution machine for fault detection of wind turbines. <i>Cluster Computing</i> , 2019, 22, 7525-7537.	3.5	15
154	An Encryption Algorithm Based on Transformed Logistic Map. , 2009, , .		14
155	Comparison of Two Basic Statistics for Fault Detection and Process Monitoring. <i>IFAC-PapersOnLine</i> , 2017, 50, 14776-14781.	0.5	14
156	A novel variable selection method based on stability and variable permutation for multivariate calibration. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 182, 188-201.	1.8	14
157	Simultaneous Determination of Metal Ions in Zinc Sulfate Solution Using UV-Vis Spectrometry and SPSE-XGBoost Method. <i>Sensors</i> , 2020, 20, 4936.	2.1	14
158	Adaptive process monitoring via online dictionary learning and its industrial application. <i>ISA Transactions</i> , 2021, 114, 399-412.	3.1	14
159	A two-stage intelligent optimization system for the raw slurry preparing process of alumina sintering production. <i>Engineering Applications of Artificial Intelligence</i> , 2009, 22, 786-795.	4.3	13
160	Data-driven flotation reagent changing evaluation via union distribution analysis of bubble size and shape. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 2616-2626.	0.9	13
161	A spectrophotometric method for simultaneous determination of trace ions of copper, cobalt, and nickel in the zinc sulfate solution by ultraviolet-visible spectrometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 223, 117370.	2.0	13
162	Power scheduling optimization under single-valued neutrosophic uncertainty. <i>Neurocomputing</i> , 2020, 382, 12-20.	3.5	13

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163	Consensus of linear multi-agent systems by distributed dynamic event-triggered control. , 2017, , .		12
164	Data reconciliation strategy with time registration for the evaporation process in alumina production. Canadian Journal of Chemical Engineering, 2018, 96, 189-204.	0.9	12
165	Distributed parameter modeling and optimal control of the oxidation rate in the iron removal process. Journal of Process Control, 2018, 61, 47-57.	1.7	12
166	A New Data Reconciliation Strategy Based on Mutual Information for Industrial Processes. Industrial & Engineering Chemistry Research, 2018, 57, 12861-12870.	1.8	12
167	High-Performance Electrochemical Sensor Based on $Mn^{1-x}Zn^xFe_2O_4$ Nanoparticle/Nafion-Modified Glassy Carbon Electrode for Pb^{2+} Detection. Journal of the Electrochemical Society, 2019, 166, B341-B348.	1.3	12
168	Adaptive over-sampling method for classification with application to imbalanced datasets in aluminum electrolysis. Neural Computing and Applications, 2020, 32, 7183-7199.	3.2	12
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