Yongming Han

List of Publications by Year
in descending order

108 papers	3,172 citations
136885 32 h-index	189801 50 g-index
108 all docs	108 docs citations
108 times ranked	2269 citing authors

#	Article	IF	Citations
1	Review: Multi-objective optimization methods and application in energy saving. Energy, 2017, 125, 681-704.	4.5	408
2	Semantic relation extraction using sequential and tree-structured LSTM with attention. Information Sciences, 2020, 509, 183-192.	4.0	128
3	Energy efficiency analysis method based on fuzzy DEA cross-model for ethylene production systems in chemical industry. Energy, 2015, 83, 685-695.	4.5	104
4	Novel leakage detection and water loss management of urban water supply network using multiscale neural networks. Journal of Cleaner Production, 2021, 278, 123611.	4.6	86
5	Carbon emission analysis and evaluation of industrial departments in China: An improved environmental DEA cross model based on information entropy. Journal of Environmental Management, 2018, 205, 298-307.	3.8	83
6	Energy optimization and prediction modeling of petrochemical industries: An improved convolutional neural network based on cross-feature. Energy, 2020, 194, 116851.	4.5	81
7	Economy and carbon dioxide emissions effects of energy structures in the world: Evidence based on SBM-DEA model. Science of the Total Environment, 2020, 729, 138947.	3.9	71
8	An optimized long short-term memory network based fault diagnosis model for chemical processes. Journal of Process Control, 2020, 92, 161-168.	1.7	67
9	Energy and environment efficiency analysis based on an improved environment DEA cross-model: Case study of complex chemical processes. Applied Energy, 2017, 205, 465-476.	5.1	66
10	Energy efficiency evaluation and energy saving based on DEA integrated affinity propagation clustering: Case study of complex petrochemical industries. Energy, 2019, 179, 863-875.	4.5	65
11	A novel data envelopment analysis cross-model integrating interpretative structural model and analytic hierarchy process for energy efficiency evaluation and optimization modeling: Application to ethylene industries. Journal of Cleaner Production, 2020, 246, 118965.	4.6	63
12	Novel Transformer Based on Gated Convolutional Neural Network for Dynamic Soft Sensor Modeling of Industrial Processes. IEEE Transactions on Industrial Informatics, 2022, 18, 1521-1529.	7.2	63
13	Energy saving and prediction modeling of petrochemical industries: A novel ELM based on FAHP. Energy, 2017, 122, 350-362.	4.5	61
14	Short-Time Wavelet Entropy Integrating Improved LSTM for Fault Diagnosis of Modular Multilevel Converter. IEEE Transactions on Cybernetics, 2022, 52, 7504-7512.	6.2	51
15	Joint entity and relation extraction model based on rich semantics. Neurocomputing, 2021, 429, 132-140.	3.5	50
16	Production capacity analysis and energy saving of complex chemical processes using LSTM based on attention mechanism. Applied Thermal Engineering, 2019, 160, 114072.	3.0	47
17	Early warning modeling and analysis based on analytic hierarchy process integrated extreme learning machine (AHP-ELM): Application to food safety. Food Control, 2017, 78, 33-42.	2.8	46
18	Energy management and optimization modeling based on a novel fuzzy extreme learning machine: Case study of complex petrochemical industries. Energy Conversion and Management, 2018, 165, 163-171.	4.4	44

#	ARTICLE	IF	CITATIONS
19	Early warning modeling and analysis based on a deep radial basis function neural network integrating an analytic hierarchy process: A case study for food safety. Food Control, 2019, 96, 329-342.	2.8	41
20	Static and dynamic energy structure analysis in the world for resource optimization using total factor productivity method based on slacks-based measure integrating data envelopment analysis. Energy Conversion and Management, 2021, 228, 113713.	4.4	41
21	Energy Efficiency Evaluation Based on Data Envelopment Analysis Integrated Analytic Hierarchy Process in Ethylene Production. Chinese Journal of Chemical Engineering, 2014, 22, 1279-1284.	1.7	40
22	Resource optimization model using novel extreme learning machine with t-distributed stochastic neighbor embedding: Application to complex industrial processes. Energy, 2021, 225, 120255.	4.5	40
23	Energy efficiency analysis based on DEA integrated ISM: A case study for Chinese ethylene industries. Engineering Applications of Artificial Intelligence, 2015, 45, 80-89.	4.3	39
24	An improved ISM method based on GRA for hierarchical analyzing the influencing factors of food safety. Food Control, 2019, 99, 48-56.	2.8	39
25	Early warning and control of food safety risk using an improved AHC-RBF neural network integrating AHP-EW. Journal of Food Engineering, 2021, 292, 110239.	2.7	39
26	A pointer meter recognition method based on virtual sample generation technology. Measurement: Journal of the International Measurement Confederation, 2020, 163, 107962.	2.5	38
27	Production capacity analysis and energy optimization of complex petrochemical industries using novel extreme learning machine integrating affinity propagation. Energy Conversion and Management, 2019, 180, 240-249.	4.4	37
28	Review: Energy efficiency evaluation of complex petrochemical industries. Energy, 2020, 203, 117893.	4.5	37
29	Fault monitoring using novel adaptive kernel principal component analysis integrating grey relational analysis. Chemical Engineering Research and Design, 2022, 157, 397-410.	2.7	37
30	A novel DEACM integrating affinity propagation for performance evaluation and energy optimization modeling: Application to complex petrochemical industries. Energy Conversion and Management, 2019, 183, 349-359.	4.4	35
31	Energy and carbon emissions analysis and prediction of complex petrochemical systems based on an improved extreme learning machine integrated interpretative structural model. Applied Thermal Engineering, 2017, 115, 280-291.	3.0	34
32	Energy Efficiency Estimation Based on Data Fusion Strategy: Case Study of Ethylene Product Industry. Industrial & Engineering Chemistry Research, 2012, 51, 8526-8534.	1.8	33
33	Multi-objective operation optimization of ethylene cracking furnace based on AMOPSO algorithm. Chemical Engineering Science, 2016, 153, 21-33.	1.9	32
34	Energy and environmental efficiency evaluation based on a novel data envelopment analysis: An application in petrochemical industries. Applied Thermal Engineering, 2017, 119, 156-164.	3.0	32
35	A new deep belief network based on RBM with glial chains. Information Sciences, 2018, 463-464, 294-306.	4.0	31
36	Input-output networks considering graphlet-based analysis for production optimization: Application in ethylene plants. Journal of Cleaner Production, 2021, 278, 123955.	4.6	31

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37	Energy analysis and resources optimization of complex chemical processes: Evidence based on novel DEA cross-model. Energy, 2021, 218, 119508.	4.5	31
38	Energy supply efficiency evaluation of integrated energy systems using novel SBM-DEA integrating Monte Carlo. Energy, 2021, 231, 120834.	4.5	31
39	Food quality and safety risk assessment using a novel HMM method based on GRA. Food Control, 2019, 105, 180-189.	2.8	30
40	Economy and carbon emissions optimization of different countries or areas in the world using an improved Attention mechanism based long short term memory neural network. Science of the Total Environment, 2021, 792, 148444.	3.9	29
41	Performance Analysis of China Ethylene Plants by Measuring Malmquist Production Efficiency Based on an Improved Data Envelopment Analysis Cross-Model. Industrial & Engineering Chemistry Research, 2015, 54, 272-284.	1.8	28
42	Energy Efficiency Prediction Based on PCA-FRBF Model: A Case Study of Ethylene Industries. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1763-1773.	5.9	28
43	Production capacity prediction of hydropower industries for energy optimization: Evidence based on novel extreme learning machine integrating Monte Carlo. Journal of Cleaner Production, 2020, 272, 122824.	4.6	28
44	Energy consumption analysis and saving of buildings based on static and dynamic input-output models. Energy, 2022, 239, 122240.	4.5	28
45	A Novel Leakage-Detection Method Based on Sensitivity Matrix of Pipe Flow: Case Study of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	26
46	Energy optimization and analysis modeling based on extreme learning machine integrated index decomposition analysis: Application to complex chemical processes. Energy, 2017, 120, 67-78.	4.5	25
47	Energy saving of buildings for reducing carbon dioxide emissions using novel dendrite net integrated adaptive mean square gradient. Applied Energy, 2022, 309, 118409.	5.1	24
48	A novel prediction intervals method integrating an error & self-feedback extreme learning machine with particle swarm optimization for energy consumption robust prediction. Energy, 2018, 164, 137-146.	4.5	23
49	Energy efficient building envelope using novel RBF neural network integrated affinity propagation. Energy, 2020, 209, 118414.	4.5	23
50	A fault detection method based on horizontal visibility graph—integrated complex networks: Application to complex chemical processes. Canadian Journal of Chemical Engineering, 2019, 97, 1129-1138.	0.9	22
51	Performance analysis and optimal temperature selection of ethylene cracking furnaces: A data envelopment analysis cross-model integrated analytic hierarchy process. Journal of Analytical and Applied Pyrolysis, 2016, 122, 35-44.	2.6	21
52	Production prediction and energy-saving model based on Extreme Learning Machine integrated ISM-AHP: Application in complex chemical processes. Energy, 2018, 160, 898-909.	4.5	21
53	An improved intelligent early warning method based on MWSPCA and its application in complex chemical processes. Canadian Journal of Chemical Engineering, 2020, 98, 1307-1318.	0.9	21
54	Text Classification Using Novel Term Weighting Scheme-Based Improved TF-IDF for Internet Media Reports. Mathematical Problems in Engineering, 2021, 2021, 1-30.	0.6	21

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55	Novel Deep Learning Based on Data Fusion Integrating Correlation Analysis for Soft Sensor Modeling. Industrial & Engineering Chemistry Research, 2021, 60, 10001-10010.	1.8	21
56	A model-free Bayesian classifier. Information Sciences, 2019, 482, 171-188.	4.0	20
57	Level set based shape prior and deep learning for image segmentation. IET Image Processing, 2020, 14, 183-191.	1.4	19
58	Energy Efficiency Hierarchy Evaluation Based on Data Envelopment Analysis and its Application in a Petrochemical Process. Chemical Engineering and Technology, 2014, 37, 2085-2095.	0.9	18
59	Energy saving analysis and management modeling based on index decomposition analysis integrated energy saving potential method: Application to complex chemical processes. Energy Conversion and Management, 2017, 145, 41-52.	4.4	18
60	Energy structure analysis and energy saving of complex chemical industries: A novel fuzzy interpretative structural model. Applied Thermal Engineering, 2018, 142, 433-443.	3.0	18
61	Risk early warning and control of food safety based on an improved analytic hierarchy process integrating quality control analysis method. Food Control, 2020, 108, 106824.	2.8	18
62	A Novel Probability Confidence CNN Model and Its Application in Mechanical Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	18
63	An asymmetric knowledge representation learning in manifold space. Information Sciences, 2020, 531, 1-12.	4.0	18
64	Novel anaerobic digestion and carbon dioxide emissions efficiency analysis of food waste treatment based on SBM-DEA model. Journal of Cleaner Production, 2021, 328, 129591.	4.6	18
65	A New Fuzzy Process Capability Estimation Method Based on Kernel Function and FAHP. IEEE Transactions on Engineering Management, 2016, 63, 177-188.	2.4	17
66	Novel variation mode decomposition integrated adaptive sparse principal component analysis and it application in fault diagnosis. ISA Transactions, 2022, 128, 21-31.	3.1	17
67	Novel target attention convolutional neural network for relation classification. Information Sciences, 2022, 597, 24-37.	4.0	17
68	Energy consumption hierarchical analysis based on interpretative structural model for ethylene production. Chinese Journal of Chemical Engineering, 2015, 23, 2029-2036.	1.7	16
69	A novel self-organizing cosine similarity learning network: An application to production prediction of petrochemical systems. Energy, 2018, 142, 400-410.	4.5	16
70	Production capacity identification and analysis using novel multivariate nonlinear regression: Application to resource optimization of industrial processes. Journal of Cleaner Production, 2021, 282, 124469.	4.6	16
71	Synergistic effect of combined hydrothermal carbonization of Fenton's reagent and biomass enhances the adsorption and combustion characteristics of sludge towards eco-friendly and efficient sludge treatment. Science of the Total Environment, 2022, 825, 153854.	3.9	15
72	Novel Nonlinear Autoregression with External Input Integrating PCA-WD and Its Application to a Dynamic Soft Sensor. Industrial & Engineering Chemistry Research, 2020, 59, 15697-15706.	1.8	13

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73	Energy consumption analysis and evaluation of petrochemical industries using an improved fuzzy analytic hierarchy process approach. Journal of Intelligent and Fuzzy Systems, 2017, 32, 4183-4195.	0.8	12
74	Risk early warning of food safety using novel long short-term memory neural network integrating sum product based analytic hierarchy process. British Food Journal, 2022, 124, 898-914.	1.6	12
75	Data Fusion-Based Extraction Method of Energy Consumption Index for the Ethylene Industry. Lecture Notes in Computer Science, 2010, , 84-92.	1.0	12
76	Production optimization and energy saving of complex chemical processes using novel competing evolutionary membrane algorithm: Emphasis on ethylene cracking. Energy Conversion and Management, 2019, 196, 311-319.	4.4	11
77	Dynamic risk assessment of food safety based on an improved hidden Markov model integrating cuckoo search algorithm: A sterilized milk study. Journal of Food Process Engineering, 2021, 44, e13630.	1.5	11
78	Production capacity assessment and carbon reduction of industrial processes based on novel radial basis function integrating multi-dimensional scaling. Sustainable Energy Technologies and Assessments, 2022, 49, 101734.	1.7	11
79	Fault Diagnosis of Converter Based on Wavelet Decomposition and BP Neural Network. , 2019, , .		9
80	An intelligent moving window sparse principal component analysis-based case based reasoning for fault diagnosis: Case of the drilling process. ISA Transactions, 2022, 128, 242-254.	3.1	9
81	Linear optimization fusion model based on fuzzy C-means: Case study of energy efficiency evaluation in ethylene product plants. Journal of Analytical and Applied Pyrolysis, 2017, 125, 347-355.	2.6	7
82	Research on improved focused crawler and its application in food safety public opinion analysis. , 2017, , .		6
83	Multi-Frequency Decomposition with Fully Convolutional Neural Network for Time Series Classification. , 2018, , .		6
84	Raw material management networks based on an improved P†graph integrated carbon emission pinch analysis (CEPA†P†graph) method. Canadian Journal of Chemical Engineering, 2020, 98, 676-689.	0.9	6
85	Novel Trajectory Representation Learning Method and Its Application to Trajectory-User Linking. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	2.4	6
86	Novel competing evolutionary membrane algorithm based on multiple reference points for multi-objective optimization of ethylene cracking processes. Chemometrics and Intelligent Laboratory Systems, 2021, 217, 104389.	1.8	5
87	Novel Gray Orthogonal Echo State Network Integrating the Process Mechanism for Dynamic Soft Sensor Development. Industrial & Engineering Chemistry Research, 2021, 60, 14955-14967.	1.8	5
88	DTaxa: An actor–critic for automatic taxonomy induction. Engineering Applications of Artificial Intelligence, 2021, 106, 104501.	4.3	5
89	Production prediction modeling of industrial processes based on Bi-LSTM. , 2019, , .		4
90	Dynamic soft sensor modeling method fusing process feature information based on an improved intelligent optimization algorithm. Chemometrics and Intelligent Laboratory Systems, 2021, 217, 104415.	1.8	4

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91	Early warning modeling and application based on analytic hierarchy process integrated extreme learning machine. , 2017, , .		3
92	An Improved Extreme Learning Machine Based on Auto-Encoder for Production Predictive Modeling of Industrial Processes. , 2019, , .		3
93	Energy efficiency assessment and resource optimization using novel DEA model: evidence from complex chemical processes. Energy Efficiency, 2020, 13, 1427-1439.	1.3	3
94	A Novel Matrix Completion Model Based on the Multi-Layer Perceptron Integrating Kernel Regularization. IEEE Access, 2021, 9, 67042-67050.	2.6	3
95	IGBT Open Circuit Fault Diagnosis Based on Improved Support Vector Machine. , 2021, , .		2
96	PID control loop performance assessment and diagnosis based on DEA-related MCDA. , 2017, , .		1
97	A Novel Asymmetric Embedding Model for Knowledge Graph Completion. , 2018, , .		1
98	An Improved MOPSO Algorithm for Operation Optimization of Ethylene Cracking Furnace. , 2019, , .		1
99	Bearing Health Monitoring Based on the Improved BiLSTM-CRF. , 2021, , .		1
100	Oil Reservoir Classification Based on Convolutional Neural Network. , 2018, , .		0
101	Energy efficiency analysis of PTA plants based on PCA-DEACM. , 2018, , .		0
102	Pattern recognition for water flooded layer based on ensemble classifier. , 2018, , .		0
103	Energy Efficiency Recognition and Diagnosis of Complex Industrial Processes using Multivariate Nonlinear Regression Method. , 2019, , .		0
104	A pattern recognition modeling approach based on the intelligent ensemble classifier: Application to identification and appraisal of water-flooded layers. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 737-750.	0.7	0
105	Equipment Configuration Optimization for Integrated Energy System Based on Improved NSGA-II. , 2020, , .		0
106	Power Generation Efficiency Evaluation of Hydropower Plants Based on the DEA. , 2020, , .		0
107	An Evolutionary Membrane Algorithm Based on Competition Mechanism for Multi-objective Optimization Problems. Lecture Notes in Electrical Engineering, 2020, , 116-123.	0.3	0
108	Produce prediction modeling of Industrial production processes using the improved PLS-CM. , 2021, , .		0