

# Yan-Lin He

## List of Publications by Year in descending order

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68  
papers

1,224  
citations

361413

20  
h-index

414414

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g-index

69  
all docs

69  
docs citations

69  
times ranked

702  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Discriminant Locality Preserving Projection Integrated With Monte Carlo Sampling for Fault Diagnosis. IEEE Transactions on Reliability, 2023, 72, 166-176.	4.6	11
2	Farthest-Nearest Distance Neighborhood and Locality Projections Integrated With Bootstrap for Industrial Process Fault Diagnosis. IEEE Transactions on Industrial Informatics, 2023, 19, 6284-6294.	11.3	12
3	Enhanced virtual sample generation based on manifold features: Applications to developing soft sensor using small data. ISA Transactions, 2022, 126, 398-406.	5.7	32
4	Novel double-layer bidirectional LSTM network with improved attention mechanism for predicting energy consumption. ISA Transactions, 2022, 127, 350-360.	5.7	32
5	An Imbalanced Multifault Diagnosis Method Based on Bias Weights AdaBoost. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	15
6	A novel virtual sample generation method based on a modified conditional Wasserstein GAN to address the small sample size problem in soft sensing. Journal of Process Control, 2022, 113, 18-28.	3.3	19
7	Improved Virtual Sample Generation Method Using Enhanced Conditional Generative Adversarial Networks with Cycle Structures for Soft Sensors with Limited Data. Industrial & Engineering Chemistry Research, 2022, 61, 530-540.	3.7	5
8	Novel Imbalanced Fault Diagnosis Method based on CSMOTE integrated with LSDA and LightGBM for Industrial Process. , 2022, , .		3
9	Novel manifold learning based virtual sample generation for optimizing soft sensor with small data. ISA Transactions, 2021, 109, 229-241.	5.7	44
10	An ontology-based procedure knowledge framework for the process industry. Canadian Journal of Chemical Engineering, 2021, 99, 530-542.	1.7	9
11	Integrating virtual sample generation with input-training neural network for solving small sample size problems: application to purified terephthalic acid solvent system. Soft Computing, 2021, 25, 6489-6504.	3.6	11
12	Pattern Mining of Alarm Flood Sequences Using an Improved PrefixSpan Algorithm with Tolerance to Short-Term Order Ambiguity. Industrial & Engineering Chemistry Research, 2021, 60, 4375-4384.	3.7	7
13	Research and Application of a Novel RPCA-SVME based Multiple Faults Recognition. , 2021, , .		0
14	An Improved Virtual Sample Generation Method Based on Quadrat Density Method and Quantile Regression for Small Sample Size Problem. , 2021, , .		0
15	A novel AdaBoost ensemble model based on the reconstruction of local tangent space alignment and its application to multiple faults recognition. Journal of Process Control, 2021, 104, 158-167.	3.3	15
16	Novel space projection interpolation based virtual sample generation for solving the small data problem in developing soft sensor. Chemometrics and Intelligent Laboratory Systems, 2021, 217, 104425.	3.5	8
17	Novel Virtual Sample Generation Using Target-Relevant Autoencoder for Small Data-Based Soft Sensor. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	8
18	Novel virtual sample generation using conditional GAN for developing soft sensor with small data. Engineering Applications of Artificial Intelligence, 2021, 106, 104497.	8.1	33

#	ARTICLE	IF	CITATIONS
19	Fault Diagnosis Using Improved Discrimination Locality Preserving Projections Integrated With Sparse Autoencoder. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	17
20	Generative Wavelet-Multilayer Perception Feature Fusion Method for Zero-Shot Learning. , 2021, , .		0
21	Soft sensor development using novel multi-activation functions based ensemble echo state network. , 2021, , .		0
22	Research and Application of Virtual Sample Generation Method Based on Conditional Generative Adversarial Network. , 2021, , .		0
23	A Local Sensitive Discriminant Analysis Method Based on Mahalanobis Distance: Application of Industrial Process Fault Diagnosis. , 2021, , .		1
24	Research and Improvement of K2 Algorithm Based on Topological Sorting. , 2021, , .		1
25	Energy and Production Efficiency Optimization of an Ethylene Plant Considering Process Operation and Structure. Industrial & Engineering Chemistry Research, 2020, 59, 1202-1217.	3.7	22
26	Novel Pattern-Matching Integrated KCVA with Adaptive Rank-Order Morphological Filter and Its Application to Fault Diagnosis. Industrial & Engineering Chemistry Research, 2020, 59, 1619-1630.	3.7	20
27	Soft Sensor Development Using Improved Whale Optimization and Regularization-Based Functional Link Neural Network. Industrial & Engineering Chemistry Research, 2020, 59, 19361-19369.	3.7	14
28	Feedstock Scheduling Optimization Based on Novel Extensible P-Graph Reasoning in Ethylene Production. Industrial & Engineering Chemistry Research, 2020, 59, 18965-18976.	3.7	5
29	Novel Virtual Sample Generation Based on Locally Linear Embedding for Optimizing the Small Sample Problem: Case of Soft Sensor Applications. Industrial & Engineering Chemistry Research, 2020, 59, 17977-17986.	3.7	24
30	Maximal structure generation of superstructure for semantic triple generated by DEVS ontology in the process industry. Chemometrics and Intelligent Laboratory Systems, 2020, 205, 104119.	3.5	4
31	Novel Multimodule Bayesian Network with Cyclic Structures for Root Cause Analysis: Application to Complex Chemical Processes. Industrial & Engineering Chemistry Research, 2020, 59, 12812-12821.	3.7	11
32	Online Distributed Process Monitoring and Alarm Analysis Using Novel Canonical Variate Analysis with Multicorrelation Blocks and Enhanced Contribution Plot. Industrial & Engineering Chemistry Research, 2020, 59, 20045-20057.	3.7	9
33	Fault Diagnosis Using Novel Class-Specific Distributed Monitoring Weighted Naïve Bayes: Applications to Process Industry. Industrial & Engineering Chemistry Research, 2020, 59, 9593-9603.	3.7	16
34	Novel soft sensor development using echo state network integrated with singular value decomposition: Application to complex chemical processes. Chemometrics and Intelligent Laboratory Systems, 2020, 200, 103981.	3.5	53
35	Fault diagnosis using novel AdaBoost based discriminant locality preserving projection with resamples. Engineering Applications of Artificial Intelligence, 2020, 91, 103631.	8.1	53
36	An Improved Term Weighting Method for Content Analysis on Chinese Internet Media Contents. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
37	Hierarchical Attention-based BiLSTM Network for Document Similarity Calculation. , 2020, , .		0
38	Novel L2-Discriminant Locality Preserving Projection Integrated with Adaboost and Its Application to Fault Diagnosis. , 2020, , .		2
39	A Monte Carlo and Kernel Density Estimation based virtual sample generation method for small data modeling problem. , 2020, , .		2
40	Research and Application of Function Linked Neural Network Based on Error Compensation. , 2020, , .		1
41	A Novel Hybrid Method Integrating ICA-PCA With Relevant Vector Machine for Multivariate Process Monitoring. IEEE Transactions on Control Systems Technology, 2019, 27, 1780-1787.	5.2	59
42	A novel intelligent model integrating PLSR with RBF-Kernel based Extreme Learning Machine: Application to modelling petrochemical process. IFAC-PapersOnLine, 2019, 52, 148-153.	0.9	7
43	Novel Pattern Recognition Using Bootstrap-Based Discriminant Locality-Preserving Projection and Its Application to Fault Diagnosis. Industrial & Engineering Chemistry Research, 2019, 58, 17906-17917.	3.7	13
44	Novel Multiblock Transfer Entropy Based Bayesian Network and Its Application to Root Cause Analysis. Industrial & Engineering Chemistry Research, 2019, 58, 4936-4945.	3.7	26
45	A novel scoring function based on family transfer entropy for Bayesian networks learning and its application to industrial alarm systems. Journal of Process Control, 2019, 76, 122-132.	3.3	28
46	Novel Distributed Alarm Visual Analysis Using Multicorrelation Block-Based PLS and Its Application to Online Root Cause Analysis. Industrial & Engineering Chemistry Research, 2019, 58, 20655-20666.	3.7	10
47	Energy modeling and saving potential analysis using a novel extreme learning fuzzy logic network: A case study of ethylene industry. Applied Energy, 2018, 213, 322-333.	10.1	18
48	A novel and effective nonlinear interpolation virtual sample generation method for enhancing energy prediction and analysis on small data problem: A case study of Ethylene industry. Energy, 2018, 147, 418-427.	8.8	50
49	Energy Efficiency Analysis Using a Novel VSG Based DEA: A Case Study of Ethylene Production Plants. , 2018, , .		0
50	Effective Cancer Classification based on Gene Expression Data using Multidimensional Mutual Information and ELM. , 2018, , .		4
51	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.	8.8	23
52	A novel robust ensemble model integrated extreme learning machine with multi-activation functions for energy modeling and analysis: Application to petrochemical industry. Energy, 2018, 162, 593-602.	8.8	27
53	Energy modeling using an effective latent variable based functional link learning machine. Energy, 2018, 162, 883-891.	8.8	14
54	A PSO based virtual sample generation method for small sample sets: Applications to regression datasets. Engineering Applications of Artificial Intelligence, 2017, 59, 236-243.	8.1	97

#	ARTICLE	IF	CITATIONS
55	A Monte Carlo and PSO based virtual sample generation method for enhancing the energy prediction and energy optimization on small data problem: An empirical study of petrochemical industries. Applied Energy, 2017, 197, 405-415.	10.1	81
56	A novel nonlinear functional expansion based PLS (FEPLS) and its soft sensor application. Chemometrics and Intelligent Laboratory Systems, 2017, 161, 108-117.	3.5	26
57	Novel Causal Network Modeling Method Integrating Process Knowledge with Modified Transfer Entropy: A Case Study of Complex Chemical Processes. Industrial & Engineering Chemistry Research, 2017, 56, 14282-14289.	3.7	11
58	Research and application of KICA-AROMF based fault diagnosis. , 2017, , .		0
59	Novel Multidimensional Feature Pattern Classification Method and Its Application to Fault Diagnosis. Industrial & Engineering Chemistry Research, 2017, 56, 8906-8916.	3.7	14
60	An effective high-quality prediction intervals construction method based on parallel bootstrapped RVM for complex chemical processes. Chemometrics and Intelligent Laboratory Systems, 2017, 171, 161-169.	3.5	6
61	A bootstrap based virtual sample generation method for improving the accuracy of modeling complex chemical processes using small datasets. , 2017, , .		9
62	Soft-sensing model development using PLSR-based dynamic extreme learning machine with an enhanced hidden layer. Chemometrics and Intelligent Laboratory Systems, 2016, 154, 101-111.	3.5	21
63	A novel robust regression model based on functional link least square (FLLS) and its application to modeling complex chemical processes. Chemical Engineering Science, 2016, 153, 117-128.	3.8	17
64	Hybrid robust model based on an improved functional link neural network integrating with partial least square (IFLNN-PLS) and its application to predicting key process variables. ISA Transactions, 2016, 61, 155-166.	5.7	9
65	A data-attribute-space-oriented double parallel (DASODP) structure for enhancing extreme learning machine: Applications to regression datasets. Engineering Applications of Artificial Intelligence, 2015, 41, 65-74.	8.1	16
66	Data driven soft sensor development for complex chemical processes using extreme learning machine. Chemical Engineering Research and Design, 2015, 102, 1-11.	5.6	71
67	A robust hybrid model integrating enhanced inputs based extreme learning machine with PLSR (PLSR-EIELM) and its application to intelligent measurement. ISA Transactions, 2015, 58, 533-542.	5.7	16
68	A hierarchical structure of extreme learning machine (HELM) for high-dimensional datasets with noise. Neurocomputing, 2014, 128, 407-414.	5.9	32