

# 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

32  
g-index

69  
all docs

69  
docs citations

69  
times ranked

702  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A PSO based virtual sample generation method for small sample sets: Applications to regression datasets. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 59, 236-243.  | 8.1  | 97        |
| 2  | 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. <i>Applied Energy</i> , 2017, 197, 405-415. | 10.1 | 81        |
| 3  | Data driven soft sensor development for complex chemical processes using extreme learning machine. <i>Chemical Engineering Research and Design</i> , 2015, 102, 1-11.   | 5.6  | 71        |
| 4  | A Novel Hybrid Method Integrating ICA-PCA With Relevant Vector Machine for Multivariate Process Monitoring. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 1780-1787.   | 5.2  | 59        |
| 5  | Novel soft sensor development using echo state network integrated with singular value decomposition: Application to complex chemical processes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 200, 103981.                 | 3.5  | 53        |
| 6  | Fault diagnosis using novel AdaBoost based discriminant locality preserving projection with resamples. <i>Engineering Applications of Artificial Intelligence</i> , 2020, 91, 103631.   | 8.1  | 53        |
| 7  | 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. <i>Energy</i> , 2018, 147, 418-427.                   | 8.8  | 50        |
| 8  | Novel manifold learning based virtual sample generation for optimizing soft sensor with small data. <i>ISA Transactions</i> , 2021, 109, 229-241.   | 5.7  | 44        |
| 9  | Novel virtual sample generation using conditional GAN for developing soft sensor with small data. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 106, 104497.   | 8.1  | 33        |
| 10 | A hierarchical structure of extreme learning machine (HELM) for high-dimensional datasets with noise. <i>Neurocomputing</i> , 2014, 128, 407-414.   | 5.9  | 32        |
| 11 | Enhanced virtual sample generation based on manifold features: Applications to developing soft sensor using small data. <i>ISA Transactions</i> , 2022, 126, 398-406.   | 5.7  | 32        |
| 12 | Novel double-layer bidirectional LSTM network with improved attention mechanism for predicting energy consumption. <i>ISA Transactions</i> , 2022, 127, 350-360.  | 5.7  | 32        |
| 13 | A novel scoring function based on family transfer entropy for Bayesian networks learning and its application to industrial alarm systems. <i>Journal of Process Control</i> , 2019, 76, 122-132.  | 3.3  | 28        |
| 14 | A novel robust ensemble model integrated extreme learning machine with multi-activation functions for energy modeling and analysis: Application to petrochemical industry. <i>Energy</i> , 2018, 162, 593-602.                              | 8.8  | 27        |
| 15 | A novel nonlinear functional expansion based PLS (FEPLS) and its soft sensor application. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 161, 108-117.  | 3.5  | 26        |
| 16 | Novel Multiblock Transfer Entropy Based Bayesian Network and Its Application to Root Cause Analysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 4936-4945.  | 3.7  | 26        |
| 17 | Novel Virtual Sample Generation Based on Locally Linear Embedding for Optimizing the Small Sample Problem: Case of Soft Sensor Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 17977-17986.                | 3.7  | 24        |
| 18 | A novel prediction intervals method integrating an error & self-feedback extreme learning machine with particle swarm optimization for energy consumption robust prediction. <i>Energy</i> , 2018, 164, 137-146.                            | 8.8  | 23        |

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|----|--|------|-----------|
| 19 | Energy and Production Efficiency Optimization of an Ethylene Plant Considering Process Operation and Structure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 1202-1217.                                  | 3.7  | 22        |
| 20 | Soft-sensing model development using PLSR-based dynamic extreme learning machine with an enhanced hidden layer. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016, 154, 101-111.                                   | 3.5  | 21        |
| 21 | Novel Pattern-Matching Integrated KCVA with Adaptive Rank-Order Morphological Filter and Its Application to Fault Diagnosis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 1619-1630.                     | 3.7  | 20        |
| 22 | A novel virtual sample generation method based on a modified conditional Wasserstein GAN to address the small sample size problem in soft sensing. <i>Journal of Process Control</i> , 2022, 113, 18-28.                       | 3.3  | 19        |
| 23 | Energy modeling and saving potential analysis using a novel extreme learning fuzzy logic network: A case study of ethylene industry. <i>Applied Energy</i> , 2018, 213, 322-333.   | 10.1 | 18        |
| 24 | A novel robust regression model based on functional link least square (FLLS) and its application to modeling complex chemical processes. <i>Chemical Engineering Science</i> , 2016, 153, 117-128.                             | 3.8  | 17        |
| 25 | Fault Diagnosis Using Improved Discrimination Locality Preserving Projections Integrated With Sparse Autoencoder. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.                                 | 4.7  | 17        |
| 26 | A data-attribute-space-oriented double parallel (DASODP) structure for enhancing extreme learning machine: Applications to regression datasets. <i>Engineering Applications of Artificial Intelligence</i> , 2015, 41, 65-74.  | 8.1  | 16        |
| 27 | A robust hybrid model integrating enhanced inputs based extreme learning machine with PLSR (PLSR-EIELM) and its application to intelligent measurement. <i>ISA Transactions</i> , 2015, 58, 533-542.                           | 5.7  | 16        |
| 28 | Fault Diagnosis Using Novel Class-Specific Distributed Monitoring Weighted Naïve Bayes: Applications to Process Industry. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 9593-9603.                        | 3.7  | 16        |
| 29 | A novel AdaBoost ensemble model based on the reconstruction of local tangent space alignment and its application to multiple faults recognition. <i>Journal of Process Control</i> , 2021, 104, 158-167.                       | 3.3  | 15        |
| 30 | An Imbalanced Multifault Diagnosis Method Based on Bias Weights AdaBoost. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8.   | 4.7  | 15        |
| 31 | Novel Multidimensional Feature Pattern Classification Method and Its Application to Fault Diagnosis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 8906-8916.   | 3.7  | 14        |
| 32 | Energy modeling using an effective latent variable based functional link learning machine. <i>Energy</i> , 2018, 162, 883-891.   | 8.8  | 14        |
| 33 | Soft Sensor Development Using Improved Whale Optimization and Regularization-Based Functional Link Neural Network. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 19361-19369.                             | 3.7  | 14        |
| 34 | Novel Pattern Recognition Using Bootstrap-Based Discriminant Locality-Preserving Projection and Its Application to Fault Diagnosis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 17906-17917.            | 3.7  | 13        |
| 35 | Farthest-Nearest Distance Neighborhood and Locality Projections Integrated With Bootstrap for Industrial Process Fault Diagnosis. <i>IEEE Transactions on Industrial Informatics</i> , 2023, 19, 6284-6294.                    | 11.3 | 12        |
| 36 | Novel Causal Network Modeling Method Integrating Process Knowledge with Modified Transfer Entropy: A Case Study of Complex Chemical Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 14282-14289. | 3.7  | 11        |

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|----|--|-----|-----------|
| 37 | Novel Multimodule Bayesian Network with Cyclic Structures for Root Cause Analysis: Application to Complex Chemical Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 12812-12821.                                | 3.7 | 11        |
| 38 | Integrating virtual sample generation with input-training neural network for solving small sample size problems: application to purified terephthalic acid solvent system. <i>Soft Computing</i> , 2021, 25, 6489-6504.                      | 3.6 | 11        |
| 39 | Novel Discriminant Locality Preserving Projection Integrated With Monte Carlo Sampling for Fault Diagnosis. <i>IEEE Transactions on Reliability</i> , 2023, 72, 166-176.   | 4.6 | 11        |
| 40 | Novel Distributed Alarm Visual Analysis Using Multicorrelation Block-Based PLS and Its Application to Online Root Cause Analysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 20655-20666.                            | 3.7 | 10        |
| 41 | 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. <i>ISA Transactions</i> , 2016, 61, 155-166.              | 5.7 | 9         |
| 42 | A bootstrap based virtual sample generation method for improving the accuracy of modeling complex chemical processes using small datasets. , 2017, , .   |     | 9         |
| 43 | Online Distributed Process Monitoring and Alarm Analysis Using Novel Canonical Variate Analysis with Multicorrelation Blocks and Enhanced Contribution Plot. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 20045-20057. | 3.7 | 9         |
| 44 | An ontology-based procedure knowledge framework for the process industry. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 530-542.   | 1.7 | 9         |
| 45 | Novel space projection interpolation based virtual sample generation for solving the small data problem in developing soft sensor. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2021, 217, 104425.                               | 3.5 | 8         |
| 46 | Novel Virtual Sample Generation Using Target-Relevant Autoencoder for Small Data-Based Soft Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.  | 4.7 | 8         |
| 47 | A novel intelligent model integrating PLSR with RBF-Kernel based Extreme Learning Machine: Application to modelling petrochemical process. <i>IFAC-PapersOnLine</i> , 2019, 52, 148-153.   | 0.9 | 7         |
| 48 | Pattern Mining of Alarm Flood Sequences Using an Improved PrefixSpan Algorithm with Tolerance to Short-Term Order Ambiguity. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 4375-4384.                                   | 3.7 | 7         |
| 49 | An effective high-quality prediction intervals construction method based on parallel bootstrapped RVM for complex chemical processes. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 171, 161-169.                           | 3.5 | 6         |
| 50 | Feedstock Scheduling Optimization Based on Novel Extensible P-Graph Reasoning in Ethylene Production. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 18965-18976.  | 3.7 | 5         |
| 51 | Improved Virtual Sample Generation Method Using Enhanced Conditional Generative Adversarial Networks with Cycle Structures for Soft Sensors with Limited Data. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 530-540.   | 3.7 | 5         |
| 52 | Effective Cancer Classification based on Gene Expression Data using Multidimensional Mutual Information and ELM. , 2018, , .   |     | 4         |
| 53 | Maximal structure generation of superstructure for semantic triple generated by DEVS ontology in the process industry. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 205, 104119.   | 3.5 | 4         |
| 54 | Novel Imbalanced Fault Diagnosis Method based on CSMOTE integrated with LSDA and LightGBM for Industrial Process. , 2022, , .  |     | 3         |

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|----|--|----|-----------|
| 55 | Novel L2-Discriminant Locality Preserving Projection Integrated with Adaboost and Its Application to Fault Diagnosis. , 2020, , .                |    | 2         |
| 56 | A Monte Carlo and Kernel Density Estimation based virtual sample generation method for small data modeling problem. , 2020, , .                  |    | 2         |
| 57 | Research and Application of Function Linked Neural Network Based on Error Compensation. , 2020, , .  |    | 1         |
| 58 | A Local Sensitive Discriminant Analysis Method Based on Mahalanobis Distance: Application of Industrial Process Fault Diagnosis. , 2021, , .     |    | 1         |
| 59 | Research and Improvement of K2 Algorithm Based on Topological Sorting. , 2021, , .   |    | 1         |
| 60 | Research and application of KICA-AROMF based fault diagnosis. , 2017, , .  |    | 0         |
| 61 | Energy Efficiency Analysis Using a Novel VSG Based DEA: A Case Study of Ethylene Production Plants. , 2018, , .                                  |    | 0         |
| 62 | Research and Application of a Novel RPCA-SVME based Multiple Faults Recognition. , 2021, , .   |    | 0         |
| 63 | An Improved Virtual Sample Generation Method Based on Quadrant Density Method and Quantile Regression for Small Sample Size Problem. , 2021, , . |    | 0         |
| 64 | An Improved Term Weighting Method for Content Analysis on Chinese Internet Media Contents. , 2020, , .   |    | 0         |
| 65 | Hierarchical Attention-based BiLSTM Network for Document Similarity Calculation. , 2020, , .   |    | 0         |
| 66 | Generative Wavelet-Multilayer Perception Feature Fusion Method for Zero-Shot Learning. , 2021, , .   |    | 0         |
| 67 | Soft sensor development using novel multi-activation functions based ensemble echo state network. , 2021, , .                                    |    | 0         |
| 68 | Research and Application of Virtual Sample Generation Method Based on Conditional Generative Adversarial Network. , 2021, , .                    |    | 0         |