Hai-Yan Lu

List of Publications by Year
in descending order

117 papers	5,579 citations	66343 42 h-index	82547 72 g-index
117 all docs	117 docs citations	117 times ranked	4676 citing authors

#	Article	IF	Citations
1	A newly combination model based on data denoising strategy and advanced optimization algorithm for short-term wind speed prediction. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 8271-8290.	4.9	22
2	Coordinating Electric Vehicles and Distributed Energy Sources Constrained by User's Travel Commitment. IEEE Transactions on Industrial Informatics, 2022, 18, 5307-5317.	11.3	9
3	Short-term wind power prediction optimized by multi-objective dragonfly algorithm based on variational mode decomposition. Chaos, Solitons and Fractals, 2022, 157, 111982.	5.1	29
4	A novel ensemble probabilistic forecasting system for uncertainty in wind speed. Applied Energy, 2022, 313, 118796.	10.1	43
5	Distribution parameter-determining method comparison for airborne wind energy potential assessment in the eastern coastal area of China. Sustainable Energy Technologies and Assessments, 2022, 52, 102161.	2.7	4
6	Three-Dimensional Numerical Characterization of High-Temperature Superconductor Bulks Subjected to Rotating Magnetic Fields. Energies, 2022, 15, 3186.	3.1	4
7	Research of a novel short-term wind forecasting system based on multi-objective Aquila optimizer for point and interval forecast. Energy Conversion and Management, 2022, 263, 115583.	9.2	19
8	Short-term photovoltaic power forecasting based on signal decomposition and machine learning optimization. Energy Conversion and Management, 2022, 267, 115944.	9.2	29
9	Quinoline-based TADF emitters exhibiting aggregation-induced emission for efficient non-doped organic light-emitting diodes. Materials Chemistry Frontiers, 2021, 5, 834-842.	5.9	22
10	A hesitant fuzzy wind speed forecasting system with novel defuzzification method and multi-objective optimization algorithm. Expert Systems With Applications, 2021, 168, 114364.	7.6	30
11	A Learning System Integrating Temporal Convolution and Deep Learning for Predictive Modeling of Crude Oil Price. IEEE Transactions on Industrial Informatics, 2021, 17, 4602-4612.	11.3	14
12	Optimal Coordination of Electric Vehicles and Distributed Generators for Voltage Unbalance and Neutral Current Compensation. IEEE Transactions on Industry Applications, 2021, 57, 1069-1080.	4.9	10
13	A Green Fluorescent Nitrogen‐Doped Aromatic Belt Containing a [6]Cycloparaphenylene Skeleton. Angewandte Chemie, 2021, 133, 15419-15423.	2.0	4
14	A Green Fluorescent Nitrogen‐Doped Aromatic Belt Containing a [6]Cycloparaphenylene Skeleton. Angewandte Chemie - International Edition, 2021, 60, 15291-15295.	13.8	30
15	A novel combined model for wind speed prediction – Combination of linear model, shallow neural networks, and deep learning approaches. Energy, 2021, 234, 121275.	8.8	72
16	Triptycene-derived TADF enantiomers displaying circularly polarized luminescence and high-efficiency electroluminescence. Organic Electronics, 2021, 99, 106355.	2.6	4
17	Measurement and Modeling of Rotational Core Loss of Fe-Based Amorphous Magnetic Material Under 2-D Magnetic Excitation. IEEE Transactions on Magnetics, 2021, 57, 1-8.	2.1	7
18	Numerical Investigation of AC Loss in HTS Bulks Subjected to Rotating Magnetic Fields. , 2021, , .		5

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19	Research of a combined wind speed model based on multi€objective ant lion optimization algorithm. International Transactions on Electrical Energy Systems, 2021, 31, e13189.	1.9	3
20	A Novel Framework of Reservoir Computing for Deterministic and Probabilistic Wind Power Forecasting. IEEE Transactions on Sustainable Energy, 2020, 11, 337-349.	8.8	74
21	Fuzzy Clustering-Based Adaptive Regression for Drifting Data Streams. IEEE Transactions on Fuzzy Systems, 2020, 28, 544-557.	9.8	38
22	Modeling of electricity demand forecast for power system. Neural Computing and Applications, 2020, 32, 6857-6875.	5.6	25
23	Sign inversions of circularly polarized luminescence for helical compounds by chemically fine-tuning operations. Chemical Communications, 2020, 56, 1863-1866.	4.1	25
24	Context-Aware Personalized Web Search Using Navigation History. International Journal on Semantic Web and Information Systems, 2020, 16, 91-107.	5.1	7
25	An IoT- Based Decision Support Tool for Improving the Performance of Smart Grids Connected with Distributed Energy Sources and Electric Vehicles. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	12
26	Naphthyridine-based thermally activated delayed fluorescence emitters for highly efficient blue OLEDs. Dyes and Pigments, 2020, 178, 108324.	3.7	17
27	An axially chiral thermally activated delayed fluorescent emitter with a dual emitting core for a highly efficient organic light-emitting diode. Chemical Communications, 2020, 56, 9380-9383.	4.1	44
28	A supportive situation awareness model for human-autonomy teaming in collaborative driving. Theoretical Issues in Ergonomics Science, 2020, 21, 658-683.	1.8	18
29	Multiobjective Optimization Technique for Mitigating Unbalance and Improving Voltage Considering Higher Penetration of Electric Vehicles and Distributed Generation. IEEE Systems Journal, 2020, 14, 3676-3686.	4.6	39
30	Developing a deep learning framework with two-stage feature selection for multivariate financial time series forecasting. Expert Systems With Applications, 2020, 148, 113237.	7.6	83
31	Advancements and Impediments in Applications of High-Temperature Superconducting Material. , 2020, , .		6
32	Research on a combined model based on linear and nonlinear features - A case study of wind speed forecasting. Renewable Energy, 2019, 130, 814-830.	8.9	43
33	Novel oxacalix[2]arene[2]triazines with thermally activated delayed fluorescence and aggregation-induced emission properties. Chemical Communications, 2019, 55, 9559-9562.	4.1	16
34	Mitigating unbalance using distributed network reconfiguration techniques in distributed power generation grids with services for electric vehicles: A review. Journal of Cleaner Production, 2019, 239, 117932.	9.3	42
35	Research and Application of a Novel Combined Model Based on Multiobjective Optimization for Multistep-Ahead Electric Load Forecasting. Energies, 2019, 12, 1931.	3.1	11
36	Naphthyridine-based thermally activated delayed fluorescence emitters for multi-color organic light-emitting diodes with low efficiency roll-off. Journal of Materials Chemistry C, 2019, 7, 4673-4680.	5.5	25

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37	Hybrid wind energy forecasting and analysis system based on divide and conquer scheme: A case study in China. Journal of Cleaner Production, 2019, 222, 942-959.	9.3	111
38	1,8-Naphthalimide-based circularly polarized TADF enantiomers as the emitters for efficient orange-red OLEDs. Organic Electronics, 2019, 70, 71-77.	2.6	57
39	Modeling for chaotic time series based on linear and nonlinear framework: Application to wind speed forecasting. Energy, 2019, 173, 468-482.	8.8	45
40	Multi-objective Dynamic Phase re-configuration Technique to Mitigate the Unbalance Due to Penetration of Electric Vehicles. , 2019, , .		0
41	Reducing Neutral Current of a higher EV Penetrated Unbalanced Distribution Grid. , 2019, , .		2
42	Advances in helicene derivatives with circularly polarized luminescence. Chemical Communications, 2019, 55, 13793-13803.	4.1	263
43	A novel system based on neural networks with linear combination framework for wind speed forecasting. Energy Conversion and Management, 2019, 181, 425-442.	9.2	59
44	State-of-the-Art Technologies for Development of High Frequency Transformers with Advanced Magnetic Materials. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-11.	1.7	25
45	Novel analysisâ€"forecast system based on multi-objective optimization for air quality index. Journal of Cleaner Production, 2019, 208, 1365-1383.	9.3	95
46	A novel combined model based on advanced optimization algorithm for short-term wind speed forecasting. Applied Energy, 2018, 215, 643-658.	10.1	199
47	Synthesis, chiroptical properties, and self-assembled nanoparticles of chiral conjugated polymers based on optically stable helical aromatic esters. RSC Advances, 2018, 8, 1014-1021.	3.6	21
48	Research and application of a combined model based on variable weight for short term wind speed forecasting. Renewable Energy, 2018, 116, 669-684.	8.9	117
49	An analysis-forecast system for uncertainty modeling of wind speed: A case study of large-scale wind farms. Applied Energy, 2018, 211, 492-512.	10.1	76
50	Uncertainty modeling for chaotic time series based on optimal multi-input multi-output architecture: Application to offshore wind speed. Energy Conversion and Management, 2018, 156, 597-617.	9.2	38
51	An improved grey model optimized by multi-objective ant lion optimization algorithm for annual electricity consumption forecasting. Applied Soft Computing Journal, 2018, 72, 321-337.	7.2	133
52	Application of a novel early warning system based on fuzzy time series in urban air quality forecasting in China. Applied Soft Computing Journal, 2018, 71, 783-799.	7.2	96
53	Air Pollution Forecasts: An Overview. International Journal of Environmental Research and Public Health, 2018, 15, 780.	2.6	200
54	A hybrid system for short-term wind speed forecasting. Applied Energy, 2018, 226, 756-771.	10.1	67

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55	Intense blue circularly polarized luminescence from helical aromatic esters. Chemical Communications, 2017, 53, 6093-6096.	4.1	43
56	Developing an early-warning system for air quality prediction and assessment of cities in China. Expert Systems With Applications, 2017, 84, 102-116.	7.6	61
57	Research and application of a combined model based on frequent pattern growth algorithm and multi-objective optimization for solar radiation forecasting. Applied Energy, 2017, 208, 845-866.	10.1	55
58	Internet of Things (IoT) in E-commerce: For people with disabilities. , 2017, , .		21
59	An object oriented Bayesian network approach for unsafe driving maneuvers prevention system. , 2017, , .		2
60	A Hybrid Wind Speed Forecasting System Based on a â€˜Decomposition and Ensembleâ€™ Strategy and Fuzzy Time Series. Energies, 2017, 10, 1422.	3.1	38
61	A fuzzy kernel c-means clustering model for handling concept drift in regression. , 2017, , .		10
62	Personalized Web Search Based on Ontological User Profile in Transportation Domain. Lecture Notes in Computer Science, 2017, , 239-248.	1.3	3
63	Suitable error evaluation criteria selection in the wind energy assessment via the K-means clustering algorithm. International Journal of Green Energy, 2016, 13, 1145-1162.	3.8	2
64	Research and application of a hybrid model based on multi-objective optimization for electrical load forecasting. Applied Energy, 2016, 180, 213-233.	10.1	99
65	Helical aromatic imide based enantiomers with full-color circularly polarized luminescence. Chemical Communications, 2016, 52, 9921-9924.	4.1	83
66	Design considerations of electric motors with soft magnetic composite cores. , 2016, , .		3
67	An Improved Particle Swarm Optimization Algorithm Based on Cauchy Operator and 3-Opt for TSP. , 2016, , .		4
68	A HYBRID MODEL FOR SHORT-TERM WIND SPEED FORECASTING BASED ON NON-POSITIVE CONSTRAINT COMBINATION THEORY. , 2016, , .		0
69	A semantic enhanced hybrid recommendation approach: A case study of e-Government tourism service recommendation system. Decision Support Systems, 2015, 72, 97-109.	5.9	109
70	Oil-saving pathways until 2030 for road freight transportation inÂChina based on a cost-optimization model. Energy, 2015, 86, 369-384.	8.8	23
71	Comprehensive assessment of wind resources and the low-carbon economy: An empirical study in the Alxa and Xilin Gol Leagues of inner Mongolia, China. Renewable and Sustainable Energy Reviews, 2015, 50, 1304-1319.	16.4	28
72	Knowledge-based life event model for e-government service integration with illustrative examples. Intelligent Decision Technologies, 2014, 8, 189-205.	0.9	1

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73	Core Loss Computation in a Permanent Magnet Transverse Flux Motor With Rotating Fluxes. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	32
74	Tetrahydro[5]helicene-based imide dyes with intense fluorescence in both solution and solid state. Chemical Communications, 2014, 50, 2993-2995.	4.1	105
75	High-Frequency Magnetic-Link Medium-Voltage Converter for Superconducting Generator-Based High-Power Density Wind Generation Systems. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	26
76	A new hybrid model optimized by an intelligent optimization algorithm for wind speed forecasting. Energy Conversion and Management, 2014, 85, 443-452.	9.2	83
77	Web-Page Recommendation Based on Web Usage and Domain Knowledge. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2574-2587.	5.7	82
78	Combining forecasts of electricity consumption in China with time-varying weights updated by a high-order Markov chain model. Omega, 2014, 45, 80-91.	5.9	74
79	Optimal Coordination of Plug-In Electric Vehicles in Power Grids With Cost-Benefit Analysisâ€"Part I: Enabling Techniques. IEEE Transactions on Power Systems, 2013, 28, 3546-3555.	6.5	127
80	Short term load forecasting technique based on the seasonal exponential adjustment method and the regression model. Energy Conversion and Management, 2013, 70, 1-9.	9.2	72
81	B-H relations of magnetorheological fluid under 2-D rotating magnetic field excitation. , 2013, , .		1
82	Medium-frequency-link power conversion for high power density renewable energy systems. , 2013, , .		2
83	Optimal Coordination of Plug-in Electric Vehicles in Power Grids With Cost-Benefit Analysisâ€"Part II: A Case Study in China. IEEE Transactions on Power Systems, 2013, 28, 3556-3565.	6.5	99
84	SCUC with battery energy storage system for peak-load shaving and reserve support. , 2013, , .		8
85	Implementation and comparison of PSO-based algorithms for multi-modal optimization problems. , 2013, , .		0
86	Investigation of sequential pattern mining techniques for web recommendation. International Journal of Information and Decision Sciences, 2012, 4, 293.	0.1	7
87	Core Loss Calculation for Soft Magnetic Composite Electrical Machines. IEEE Transactions on Magnetics, 2012, 48, 3112-3115.	2.1	50
88	The model of chaotic sequences based on adaptive particle swarm optimization arithmetic combined with seasonal term. Applied Mathematical Modelling, 2012, 36, 1184-1196.	4.2	9
89	Multi-step forecasting for wind speed using a modified EMD-based artificial neural network model. Renewable Energy, 2012, 37, 241-249.	8.9	436
90	Chaotic time series method combined with particle swarm optimization and trend adjustment for electricity demand forecasting. Expert Systems With Applications, 2011, 38, 8419-8429.	7.6	50

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91	A case study on a hybrid wind speed forecasting method using BP neural network. Knowledge-Based Systems, 2011, 24, 1048-1056.	7.1	296
92	Combined modeling for electric load forecasting with adaptive particle swarm optimization. Energy, 2010, 35, 1671-1678.	8.8	119
93	The Forecasting Procedure for Long-Term Wind Speed in the Zhangye Area. Mathematical Problems in Engineering, 2010, 2010, 1-17.	1.1	25
94	A new hybrid evolutionary algorithm with quasi-simplex technique. , 2010, , .		0
95	Experimental study of a new hybrid PSO with mutation for economic dispatch with non-smooth cost function. International Journal of Electrical Power and Energy Systems, 2010, 32, 921-935.	5.5	147
96	Ontology-style Web usage model for semantic Web applications. , 2010, , .		5
97	Performance analysis of a linear synchronous motor with HTS bulk magnets. , 2010, , .		0
98	Self-adaptive velocity particle swarm optimization for solving constrained optimization problems. Journal of Global Optimization, 2008, 41, 427-445.	1.8	76
99	Measurement and Modeling of Rotational Core Losses of Soft Magnetic Materials Used in Electrical Machines: A Review. IEEE Transactions on Magnetics, 2008, 44, 279-291.	2.1	103
100	The Research of Software Product Line Engineering Process and Its Integrated Development Environment Model. , 2008, , .		4
101	Development of a Wound Rotor Brushless Doubly Fed Machine Based on Slot MMF Harmonics. , 2008, , .		12
102	Price Forecasting of Supply Chain Product Based on Dynamic Fractal Dimension. , 2008, , .		0
103	Research on Real Estate Early Warning System Based on Decision Tree and Fuzzy Recognition Theory. , 2008, , .		1
104	Supply Chain Safety Stock Quantity's Fractal Forecast and Study. , 2008, , .		0
105	Application of SVM Combined with Mackov Chain for Inventory Prediction in Supply Chain. , 2008, , .		4
106	Influence of inductance variation on performance of a permanent magnet claw pole soft magnetic composite motor. Journal of Applied Physics, 2008, 103, 07F118.	2.5	5
107	Design and Analysis of a Prototype Linear Motor Driving System for HTS Maglev Transportation. IEEE Transactions on Applied Superconductivity, 2007, 17, 2087-2090.	1.7	63
108	Determination of 3D magnetic reluctivity tensor of soft magnetic composite material. Journal of Magnetism and Magnetic Materials, 2007, 312, 458-463.	2.3	30

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109	Effects of Armature Reaction on the Performance of a Claw Pole Motor With Soft Magnetic Composite Stator by Finite-Element Analysis. IEEE Transactions on Magnetics, 2007, 43, 1072-1077.	2.1	7
110	Effect of Armature Reaction of a Permanent-Magnet Claw Pole SMC Motor. IEEE Transactions on Magnetics, 2007, 43, 2561-2563.	2.1	10
111	Measurement and Modeling of Thermal Effects on Magnetic Hysteresis of Soft Ferrites. IEEE Transactions on Magnetics, 2007, 43, 3952-3960.	2.1	38
112	Some further results on minimum distribution cost flow problems. Journal of Combinatorial Optimization, 2006, 11, 351.	1.3	5
113	Dynamic-objective particle swarm optimization for constrained optimization problems. Journal of Combinatorial Optimization, 2006, 12, 409-419.	1.3	57
114	ENVIRONMENTAL/ECONOMIC DISPATCH USING GENETIC ALGORITHM AND FUZZY NUMBER RANKING METHOD. , 2006, , .		1
115	Dynamic economic load dispatch using hybrid genetic algorithm and the method of fuzzy number ranking. , 2005, , .		8
116	Experimental determination of stray capacitances in high frequency transformers. IEEE Transactions on Power Electronics, 2003, 18, 1105-1112.	7.9	226
117	Performance Analysis of a Linear Motor with HTS Bulk Magnets for Driving a Prototype HTS Maglev Vehicle. Applied Mechanics and Materials, 0, 416-417, 33-37.	0.2	0