Shyh-Jier Huang

List of Publications by Year
in descending order

112 papers	3,121 citations	185998 28 h-index	168136 53 g-index
112 all docs	112 docs citations	112 times ranked	2567 citing authors

#	Article	IF	Citations
1	Short-term load forecasting via ARMA model identification including non-gaussian process considerations. IEEE Transactions on Power Systems, 2003, 18, 673-679.	4.6	507
2	Application of Morlet wavelets to supervise power system disturbances. IEEE Transactions on Power Delivery, 1999, 14, 235-243.	2.9	162
3	Application of a robust algorithm for dynamic state estimation of a power system. IEEE Transactions on Power Systems, 2002, 17, 141-147.	4.6	147
4	An immune-based optimization method to capacitor placement in a radial distribution system. IEEE Transactions on Power Delivery, 2000, 15, 744-749.	2.9	145
5	Enhancement of hydroelectric generation scheduling using ant colony system based optimization approaches. IEEE Transactions on Energy Conversion, 2001, 16, 296-301.	3.7	140
6	High-impedance fault detection utilizing a Morlet wavelet transform approach. IEEE Transactions on Power Delivery, 1999, 14, 1401-1410.	2.9	130
7	A detection algorithm for islanding-prevention of dispersed consumer-owned storage and generating units. IEEE Transactions on Energy Conversion, 2001, 16, 346-351.	3.7	123
8	Enhancement of islanding-detection of distributed generation systems via wavelet transform-based approaches. International Journal of Electrical Power and Energy Systems, 2008, 30, 575-580.	3.3	114
9	A control algorithm for three-phase three-wired active power filters under nonideal mains voltages. IEEE Transactions on Power Electronics, 1999, 14, 753-760.	5.4	103
10	Enhancement of Damage-Detection of Wind Turbine Blades Via CWT-Based Approaches. IEEE Transactions on Energy Conversion, 2006, 21, 776-781.	3.7	82
11	Modular On-Road AGV Wireless Charging Systems Via Interoperable Power Adjustment. IEEE Transactions on Industrial Electronics, 2019, 66, 5918-5928.	5.2	56
12	FPGA realization of wavelet transform for detection of electric power system disturbances. IEEE Transactions on Power Delivery, 2002, 17, 388-394.	2.9	52
13	A Modified Bird-Mating Optimization with Hill-Climbing for Connection Decisions of Transformers. Energies, 2016, 9, 671.	1.6	52
14	Application of wavelets to classify power system disturbances. Electric Power Systems Research, 1998, 47, 87-93.	2.1	51
15	A new approach to islanding detection of dispersed generators with self-commutated static power converters. IEEE Transactions on Power Delivery, 2000, 15, 500-507.	2.9	51
16	Application of artificial bee colony-based optimization for fault section estimation in power systems. International Journal of Electrical Power and Energy Systems, 2013, 44, 210-218.	3.3	49
17	Application of sliding surface-enhanced fuzzy control for dynamic state estimation of a power system. IEEE Transactions on Power Systems, 2003, 18, 570-577.	4.6	45
18	Enhancement of Digital Equivalent Voltage Flicker Measurement via Continuous Wavelet Transform. IEEE Transactions on Power Delivery, 2004, 19, 663-670.	2.9	45

#	Article	IF	Citations
19	Design and Operation of Power Converter for Microturbine Powered Distributed Generator with Capacity Expansion Capability. IEEE Transactions on Energy Conversion, 2008, 23, 110-118.	3.7	45
20	Fast Charge Strategy Based on the Characterization and Evaluation of LiFePO $_{m 4}$ Batteries. IEEE Transactions on Power Electronics, 2013, 28, 1555-1562.	5.4	45
21	Economic analysis for demand-side hybrid photovoltaic and battery energy storage system. IEEE Transactions on Industry Applications, 2001, 37, 171-177.	3.3	44
22	Application of Arithmetic Coding for Electric Power Disturbance Data Compression With Wavelet Packet Enhancement. IEEE Transactions on Power Systems, 2004, 19, 1334-1341.	4.6	44
23	Design of dynamic voltage restorer with disturbance-filtering enhancement. IEEE Transactions on Power Electronics, 2003, 18, 1202-1210.	5.4	35
24	Coiflet wavelet transform applied to inspect power system disturbance-generated signals. IEEE Transactions on Aerospace and Electronic Systems, 2002, 38, 204-210.	2.6	34
25	Design and operation of burn-in test system for three-phase uninterruptible power supplies. IEEE Transactions on Industrial Electronics, 2002, 49, 256-263.	5.2	33
26	Application of immune-based optimization method for fault-section estimation in a distribution system. IEEE Transactions on Power Delivery, 2002, 17, 779-784.	2.9	33
27	Enhancement of Anomalous Data Mining in Power System Predicting-Aided State Estimation. IEEE Transactions on Power Systems, 2004, 19, 610-619.	4.6	32
28	Feasibility of fractal-based methods for visualization of power system disturbances. International Journal of Electrical Power and Energy Systems, 2001, 23, 31-36.	3.3	30
29	A genetic-evolved fuzzy system for maintenance scheduling of generating units. International Journal of Electrical Power and Energy Systems, 1998, 20, 191-195.	3.3	29
30	Enhancement of power system data debugging using GSA-based data-mining technique. IEEE Transactions on Power Systems, 2002, 17, 1022-1029.	4.6	28
31	A novel design of line-interactive uninterruptible power supplies without load current sensors. IEEE Transactions on Power Electronics, 2006, 21, 202-210.	5.4	26
32	Application of Gabor–Wigner transform to inspect high-impedance fault-generated signals. International Journal of Electrical Power and Energy Systems, 2015, 73, 192-199.	3.3	25
33	Application of continuous wavelet transform for study of voltage flicker-generated signals. IEEE Transactions on Aerospace and Electronic Systems, 2000, 36, 925-932.	2.6	24
34	Generator maintenance scheduling: a fuzzy system approach with genetic enhancement. Electric Power Systems Research, 1997, 41, 233-239.	2.1	23
35	Determination of Suitability Between Wind Turbine Generators and Sites Including Power Density and Capacity Factor Considerations. IEEE Transactions on Sustainable Energy, 2012, 3, 390-397.	5.9	23
36	Enhancement of wireless power transmission with foreign-object detection considerations. , 2017, , .		23

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37	Enhancement of Matching Turbine Generators With Wind Regime Using Capacity Factor Curves Strategy. IEEE Transactions on Energy Conversion, 2009, 24, 551-553.	3.7	20
38	Data reduction of power quality disturbances—a wavelet transform approach. Electric Power Systems Research, 1998, 47, 79-86.	2.1	19
39	A study of three-phase active power filters under nonideal mains voltages. Electric Power Systems Research, 1999, 49, 129-137.	2.1	19
40	Visualizing time-varying power system harmonics using a Morlet wavelet transform approach. Electric Power Systems Research, 2001, 58, 81-88.	2.1	19
41	Application of a fuzzy model for short-term load forecast with group method of data handling enhancement. International Journal of Electrical Power and Energy Systems, 2002, 24, 631-638.	3.3	19
42	A Plant Growth-Based Optimization Approach Applied to Capacitor Placement in Power Systems. IEEE Transactions on Power Systems, 2012, 27, 2138-2145.	4.6	19
43	Application of Enhanced Honey-Bee Mating Optimization Algorithm to Fault Section Estimation in Power Systems. IEEE Transactions on Power Delivery, 2013, 28, 1944-1951.	2.9	19
44	Relation analysis for ferroresonance of bus potential transformer and circuit breaker grading capacitance. International Journal of Electrical Power and Energy Systems, 2013, 51, 61-70.	3.3	19
45	Inductive Power Transfer Systems for PT-Based Ozone-Driven Circuit With Flexible Capacity Operation and Frequency-Tracking Mechanism. IEEE Transactions on Industrial Electronics, 2014, 61, 6691-6699.	5.2	19
46	Sensorless speed identification of vector—controlled induction drives via neural network based estimation. Electric Power Systems Research, 1998, 48, 1-10.	2.1	18
47	Application of ATM-based network for an integrated distribution SCADA-GIS system. IEEE Transactions on Power Systems, 2002, 17, 80-86.	4.6	17
48	Application of Hybrid Firefly Algorithm for Sheath Loss Reduction of Underground Transmission Systems. IEEE Transactions on Power Delivery, 2013, 28, 2085-2092.	2.9	16
49	Plasma-Driven System Circuit Design With Asymmetrical Pulsewidth Modulation Scheme. IEEE Transactions on Industrial Electronics, 2011, 58, 4167-4174.	5.2	15
50	Design of Misalignment-Insensitive Inductive Power Transfer via Interoperable Coil Module and Dynamic Power Control. IEEE Transactions on Power Electronics, 2020, 35, 9024-9033.	5.4	14
51	Flicker characteristic estimation of an AC electric arc furnace. Electric Power Systems Research, 2000, 54, 121-130.	2.1	13
52	An automatic load shedding scheme including pumped-storage units. IEEE Transactions on Energy Conversion, 2000, 15, 427-432.	3.7	13
53	Slant transform applied to electric power quality detection with field programmable gate array design enhanced. International Journal of Electrical Power and Energy Systems, 2010, 32, 428-432.	3.3	13
54	Design of an Inverter Array for Distributed Generations With Flexible Capacity Operations. IEEE Transactions on Industrial Electronics, 2010, 57, 3927-3934.	5.2	12

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55	An Application of B-Spline Wavelet Transform for Notch Detection Enhancement. IEEE Transactions on Power Delivery, 2004, 19, 1419-1425.	2.9	11
56	A Method to Enhance Ground-Fault Computation. IEEE Transactions on Power Systems, 2010, 25, 1190-1191.	4.6	11
57	Confirming the Permissible Capacity of Distributed Generation for Grid-Connected Distribution Feeders. IEEE Transactions on Power Systems, 2015, 30, 540-541.	4.6	11
58	Genetic-based multilayered perception for Taiwan power system short-term load forecasting. Electric Power Systems Research, 1996, 38, 69-74.	2.1	10
59	A time-based load shedding protection for isolated power systems. Electric Power Systems Research, 1999, 52, 161-169.	2.1	10
60	Application of flower pollination algorithm for placement of distribution transformers in a low-voltage grid. , 2015, , .		10
61	Thermotherapy Induction Heating Apparatus With New Magnetic-Wrapped Coil Design. IEEE Transactions on Industrial Electronics, 2014, 61, 2592-2600.	5.2	8
62	A method to enhance the predictive maintenance of ZnO arresters in energy systems. International Journal of Electrical Power and Energy Systems, 2014, 62, 183-188.	3.3	8
63	New phase shift control circuit for a voltage-source voltage-control active power filter. International Journal of Electronics, 1999, 86, 475-485.	0.9	6
64	A WWW-based virtual instrument software for electric power measurement with Java enhancement. , 0, , .		6
65	Application of box counting method-based fractal geometry technique for disturbance detection in power systems. , 0, , .		6
66	Intermediate Coil-Aided Wireless Charging Via Interactive Power Transmitting With Misalignment-Tolerating Considerations. IEEE Transactions on Industrial Electronics, 2022, 69, 9972-9983.	5.2	6
67	Hydroelectric generation scheduling—an application of genetic-embedded fuzzy system approach. Electric Power Systems Research, 1998, 48, 65-72.	2.1	5
68	Computation of continuous wavelet transform via a new wavelet function for visualization of power system disturbances. , 0, , .		5
69	A Modular Approach to Enhance Capacity Factor Computation of Wind Turbine Generators. IEEE Transactions on Energy Conversion, 2011, 26, 987-989.	3.7	5
70	Design of Lithium-Ion Battery Charging System Enhanced with Wolf Pack Algorithm. , 2012, , .		5
71	Analysis and implementation of LLC inverters for ozone-driven system with constant-current control. , 2014, , .		5
72	Design of wireless power transfer for dynamic power transmission with position-detection mechanism. , 2015, , .		5

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73	Design Enhancement of a Power Supply System for a BLDC Motor-Driven Circuit With State-of-Charge Equalization and Capacity Expansion. IEEE Transactions on Industrial Electronics, 2018, 65, 8613-8623.	5.2	5
74	Enhancement of Plasma-Driven System With Piezoelectric Transformer-Based Feedback Control Approaches and a Contactless Power Source. IEEE Transactions on Industrial Electronics, 2015, 62, 7469-7478.	5.2	4
75	Design of Hybrid Power Supply System With Energy Regulation Capability for Hand-Held Tools. IEEE Transactions on Industrial Electronics, 2017, 64, 1148-1156.	5.2	4
76	Application of genetic based fuzzy systems to hydroelectric generation scheduling. IEEE Transactions on Energy Conversion, 1999, 14, 724-730.	3.7	3
77	Artificial neural network enhanced by gap statistic algorithm applied for bad data detection of a power system. , 0, , .		3
78	Application of modified Wigner distribution method to voltage flicker-generated signal studies. International Journal of Electrical Power and Energy Systems, 2013, 44, 275-281.	3.3	3
79	Contactless energy-transfer system design for lithium iron phosphate battery-charging circuits. , 2013, , .		3
80	Enhancing Luminance of CCFL-Based Lighting Systems Using Low-Frequency Driving Techniques. IEEE Transactions on Industrial Electronics, 2014, 61, 3279-3287.	5.2	3
81	Application of bird-mating optimization to phase adjustment of open-wye/open-delta transformers in a power grid. , 2015, , .		3
82	Fault section estimation in distribution systems using biogeography-based optimization approaches. International Transactions on Electrical Energy Systems, 2015, 25, 155-168.	1.2	3
83	An active islanding-detection method for power conditioning subsystem of utility interactive photovoltaic system. , 0, , .		2
84	A new approach of circulating current method for UPS testing with energy recovery. , 0, , .		2
85	Voltage equalization of lithium iron phosphate batteries cooperating with supercapacitors. , 2014, , .		2
86	Ozone-Driven Circuit Design Enhanced With an Improved Half-Bridge Inverter of Wide-Input-Voltage Capability. IEEE Transactions on Industrial Electronics, 2015, 62, 4777-4786.	5.2	2
87	Combination of class E inverters with DC-DC converters for a circuit design with controllable dual outputs. , 2015, , .		2
88	Application of hybrid-loop control approach to inverter design with piezoelectric transducers. , 2015, , .		2
89	Design of a contactless power supply system with dual output capability for AGV applications. , 2017, , .		2
90	A detection algorithm for islanding-prevention of dispersed consumer-owned storage and generating units. , 0, , .		1

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91	Design of a Lithium-iron battery charger with the open-circuit voltage function evaluation. , 2011, , .		1
92	Application of wolf group hierarchy optimization algorithm to fault section estimation in power systems. , 2014, , .		1
93	Enhancement of ozone-generation with modular expansions and dual-drive systems. , 2016, , .		1
94	Converter design for fuel cells enhanced with cooperation of lithium batteries and supercapacitors. , 2016, , .		1
95	Modular Design and Analysis of Plasma-Driven System With Integrated Resonant Circuit and Capacity Expansion Mechanism. IEEE Transactions on Industrial Electronics, 2018, 65, 1226-1234.	5.2	1
96	Combination of Filament-Heating and Cavity-Driven Circuit With Gain-Frequency Regulation Control for Magnetrons. IEEE Transactions on Power Electronics, 2021, 36, 1921-1930.	5.4	1
97	A novel control algorithm for active power conditioner without load current sensor. International Journal of Electronics, 1999, 86, 1411-1422.	0.9	0
98	Design of an islanding detection circuit for dispersed generators with self-commutated static power converters. , 0, , .		0
99	Estimation of stochastic characteristics of an AC electric arc furnace. , 0, , .		0
100	FPGA realization of line-interactive uninterruptible power supply. , 0, , .		0
101	Monte Carlo Method-Based Clustering Analysis Applied for Robust State Estimation and Data Debugging of Power Systems. , 2007, , .		0
102	Design of modular inverter for distributed power generation. , 2008, , .		0
103	Enhancement of auxiliary overcurrent protection in transformers using novel feature extraction algorithms. European Transactions on Electrical Power, 2010, 20, 1153-1162.	1.0	0
104	Enhancement of piezoelectric transformer-based LED lighting system with tracking mechanism. , 2011, , .		0
105	Design of plasma power for an atmospheric pressure dielectric barrier discharge. , 2011, , .		0
106	Fault section estimation in power systems using enhanced immune algorithm. , 2011, , .		0
107	Design of a Wireless Power Transfer for Contactless Charging System Using Bio-Inspired Algorithm. , 2012, , .		0
108	Confirmation of Photovoltaic Generation Through Recognition of Inverter Output Signals. IEEE Transactions on Sustainable Energy, 2013, 4, 275-276.	5.9	0

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109	A preliminary study on impact analysis of grid-connected PV systems considering additional transformer installations. , 2016, , .		0
110	Enhancement of magnetron-driven system with simple preheating and power modulation mechanism. , 2017, , .		0
111	An intelligent maintenance scheduling of distribution transformers in a smart grid. , 2017, , .		0
112	Contactless Power Transfer for Rail-Guided Vehicles With Power Equalization and Efficiency Improvement Considerations. IEEE Transactions on Industrial Electronics, 2022, 69, 3566-3576.	5.2	0