Longfu Luo

List of Publications by Year
in descending order

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		346980	406436
88	1,342	22	35
papers	citations	h-index	g-index

88	88	88	1251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study of the Harmonic Analysis and Energy Transmission Mechanism of the Frequency Conversion Transformer. Energies, 2022, 15, 519.	1.6	0
2	Research on Vibration and Noise of Induction Motor under Variable Frequency. Symmetry, 2022, 14, 569.	1.1	0
3	A novel fault location method for hybrid lines based on traveling wave. International Journal of Electrical Power and Energy Systems, 2022, 141, 108102.	3.3	14
4	Day-Ahead Wind Power Prediction Based on BP Neural Network Optimized by Improved Sparrow Search Algorithm. , 2022, , .		0
5	Capacitive Filter Based HVDC Converter for Reducing the Vibration and Noise of Converter Transformer. IEEE Access, 2022, 10, 78634-78642.	2.6	3
6	Renewable Energy Integration in Intelligent Railway of China: Configurations, Applications and Issues. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 13-33.	2.6	10
7	A New Harmonic Mitigation System With Double Balanced Impedance Filtering Power Transformer for Multistage Distribution Network. IEEE Transactions on Industrial Electronics, 2021, 68, 4565-4575.	5.2	3
8	A New DC Multipulse Integrated Shipboard Power Supply System and Performance Analysis Referring to Transformer Noninteger Turns Ratio Deviation. IEEE Transactions on Power Electronics, 2021, 36, 353-363.	5.4	7
9	A Novel HVDC Converter for Reducing Commutation Failure Probability. , 2021, , .		0
10	Research on dynamic characteristics of inverter when fault occurs in HVDC receiving end equipped with synchronous condenser. , 2021, , .		0
11	Magnetic-Integrated Multipulse Rectifier Transformer With a Tight Impedance Equalizing Strategy for Power Quality Improvement of DC Traction Power Supply System. IEEE Transactions on Industrial Electronics, 2020, 67, 6270-6279.	5.2	12
12	A Transformer Integrated Filtering System for Power Quality Improvement of Industrial DC Supply System. IEEE Transactions on Industrial Electronics, 2020, 67, 3329-3339.	5.2	47
13	A Traveling Wave-Based Fault Location Method Employing VMD-TEO for Distribution Network. IEEE Transactions on Power Delivery, 2020, 35, 1987-1998.	2.9	76
14	More Efficient AC Filterless HVDC with Low Noise of Transformer. , 2020, , .		1
15	A Defect-Detection Method of Split Pins in the Catenary Fastening Devices of High-Speed Railway Based on Deep Learning. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9517-9525.	2.4	31
16	Study on Characteristic Parameters of Short-Circuit Impedance for a Four-Winding Inductive Filtering Transformer in Power System Supplying Nonlinear Loads. IEEE Access, 2019, 7, 115273-115280.	2.6	8
17	Supercapacitor Integrated Railway Static Power Conditioner for Regenerative Braking Energy Recycling and Power Quality Improvement of High-Speed Railway System. IEEE Transactions on Transportation Electrification, 2019, 5, 702-714.	5.3	60
18	Active power filter integrated with distribution transformer based on magnetic potential balance. IET Generation, Transmission and Distribution, 2019, 13, 238-247.	1.4	7

#	Article	IF	Citations
19	A Four-Winding Inductive Filtering Transformer to Enhance Power Quality in a High-Voltage Distribution Network Supplying Nonlinear Loads. Energies, 2019, 12, 2021.	1.6	12
20	Minimizing the Energy Cost of Offshore Wind Farms by Simultaneously Optimizing Wind Turbines and Their Layout. Applied Sciences (Switzerland), 2019, 9, 835.	1.3	13
21	A Novel SOC Distributed Equalization Control Strategy for Energy Storage Units in DC Microgrids. , 2019, , .		0
22	A Compound Control Strategy of Dynamic Voltage Restorer based on Multiple Winding Transformer. , 2019, , .		1
23	Power Quality Survey of Industrial Large-power DC Supply System. , 2019, , .		0
24	High Reliability Dynamic Voltage Restorer Based on Multi-winding Transformer. , 2019, , .		2
25	Compensation Strategy for Multiple Series Centralized Voltage Sag in Medium Voltage Distribution Network. , 2019, , .		0
26	An Identification Method of Fault Type Based on GWO-SVM for Distribution Network. , 2019, , .		1
27	Power Quality Management of PV Power Plant With Transformer Integrated Filtering Method. IEEE Transactions on Power Delivery, 2019, 34, 941-949.	2.9	80
28	A Compensation System for Cophase High-Speed Electric Railways by Reactive Power Generation of SHC&SAC. IEEE Transactions on Industrial Electronics, 2018, 65, 2956-2966.	5.2	23
29	An Asymmetrical Connection Balance Transformer-Based Hybrid Railway Power Conditioning System With Cost-Function Optimization. IEEE Transactions on Transportation Electrification, 2018, 4, 577-590.	5.3	22
30	Optimized Inductive Filter Device Design for a Novel Transformer Based on Improved Immune Genetic Algorithm. , 2018, , .		1
31	Analysis of an Improved Voltage-balancing Control Method of Modular Multilevel Converter Based on Amplitude-adjustable Carrier. , 2018, , .		1
32	Optimal Design of Rated Wind Speed and Rotor Radius to Minimizing the Cost of Energy for Offshore Wind Turbines. Energies, 2018, 11, 2728.	1.6	10
33	A new compensation system for Vv cophase traction power supply system. , 2018, , .		1
34	Harmonic Elimination Using Parallel Delta-Connected Filtering Windings for Converter Transformers in HVDC Systems. IEEE Transactions on Power Delivery, 2017, 32, 933-941.	2.9	33
35	A Controllably Inductive Filtering Method With Transformer-Integrated Linear Reactor for Power Quality Improvement of Shipboard Power System. IEEE Transactions on Power Delivery, 2017, 32, 1817-1827.	2.9	31
36	Reactive Power Compensation and Negative-Sequence Current Suppression System for Electrical Railways With YNvd-Connected Balance Transformerâ€"Part II: Implementation and Verification. IEEE Transactions on Power Electronics, 2017, 32, 9031-9042.	5.4	6

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37	Vibration and noise characteristics of the inductive filtering converter transformer. Electronics Letters, 2017, 53, 678-679.	0.5	8
38	Coâ€simulation of distributed control system based on JADE for smart distribution networks with distributed generations. IET Generation, Transmission and Distribution, 2017, 11, 3097-3105.	1.4	12
39	Voltage Stability Analysis and Sliding-Mode Control Method for Rectifier in DC Systems With Constant Power Loads. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1621-1630.	3.7	47
40	A Power Factor-Oriented Railway Power Flow Controller for Power Quality Improvement in Electrical Railway Power System. IEEE Transactions on Industrial Electronics, 2017, 64, 1167-1177.	5.2	42
41	A Virtual Impedance Comprehensive Control Strategy for the Controllably Inductive Power Filtering System. IEEE Transactions on Power Electronics, 2017, 32, 920-926.	5.4	65
42	Research on subway energy internet based on power electronic transformer. , 2017, , .		1
43	Characteristic analysis of HVDC system with shunt capacitance commutated converter. , 2017, , .		0
44	A hybrid power conditioner for co-phase power supply system and its capacity analysis. , 2017, , .		2
45	A current balance compensation method for traction substation based on SVG and V/v transformer. , 2017, , .		5
46	Noise characteristics of the new converter transformer under DC bias. Electronics Letters, 2017, 53, 672-674.	0.5	6
47	Power Quality Improvement and LVRT Capability Enhancement of Wind Farms by Means of an Inductive Filtering Method. Energies, 2016, 9, 302.	1.6	5
48	YN/VD connected balance transformerâ€based electrical railway negative sequence current compensation system with passive control scheme. IET Power Electronics, 2016, 9, 2044-2051.	1.5	16
49	A controllably inductive power filtering method for large-power industrial rectifier system. , 2016, , .		1
50	A new shipboard power supply system based on a rectifier transformer with integrated filtering reactor. , 2016, , .		0
51	An Inductively Filtered Multiwinding Rectifier Transformer and Its Application in Industrial DC Power Supply System. IEEE Transactions on Industrial Electronics, 2016, 63, 3987-3997.	5.2	18
52	Vibration modal analysis and calculation of a new HVDC converter transformer with inductive filtering method. , 2015, , .		2
53	Principle research on suppressing harmonic instability of HVDC transmission by using an inductive filtering method. , 2015, , .		2
54	An Integrated Harmonic-Filtering Transformer for Low-Voltage Distribution Systems. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	14

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55	Improvement of power quality and dynamic voltage of wind farms using an inductive filtering method. , 2015, , .		1
56	A Y-D Multi-function Balance Transformer Based Power Quality Control System for Single-phase Power Supply System. IEEE Transactions on Industry Applications, 2015, , 1-1.	3.3	5
57	A New Railway Power Flow Control System Coupled With Asymmetric Double <italic>LC</italic> Branches. IEEE Transactions on Power Electronics, 2015, 30, 5484-5498.	5.4	31
58	A New Half-Bridge Winding Compensation-Based Power Conditioning System for Electric Railway with LQRI. IEEE Transactions on Power Electronics, 2014, 29, 5242-5256.	5.4	22
59	Enhancement of Commutation Reliability of an HVDC Inverter by Means of an Inductive Filtering Method. IEEE Transactions on Power Electronics, 2013, 28, 4917-4929.	5.4	42
60	Electromagnetic field and thermal distribution optimisation in shellâ€type traction transformers. IET Electric Power Applications, 2013, 7, 627-632.	1.1	16
61	An Industrial DC Power Supply System Based on an Inductive Filtering Method. IEEE Transactions on Industrial Electronics, 2012, 59, 714-722.	5.2	46
62	Assessment and Choice of Input Signals for Multiple HVDC and FACTS Wide-Area Damping Controllers. IEEE Transactions on Power Systems, 2012, 27, 1969-1977.	4.6	63
63	Realization of Reactive Power Compensation Near the LCC-HVDC Converter Bridges by Means of an Inductive Filtering Method. IEEE Transactions on Power Electronics, 2012, 27, 3908-3923.	5.4	55
64	Electromagnetic Vibration Analysis of the Winding of a New HVDC Converter Transformer. IEEE Transactions on Power Delivery, 2012, 27, 123-130.	2.9	53
65	Harmonic Transfer Characteristics of a New HVDC System Based on an Inductive Filtering Method. IEEE Transactions on Power Electronics, 2012, 27, 2273-2283.	5.4	24
66	Harmonic Current Detection Algorithm Based on the Improved FBD Method and Its Application in Active Power Filters. , 2012, , .		1
67	Simulation of the Electromagnetic Response Characteristic of an Inductively Filtered HVDC Converter Transformer Using Field-Circuit Coupling. IEEE Transactions on Industrial Electronics, 2012, 59, 4020-4031.	5.2	29
68	Analysis of the Characteristics of the New Converter Transformer Based on the Matrix Model. IEEE Transactions on Power Delivery, 2012, 27, 821-830.	2.9	7
69	Study on Steady- and Transient-State Characteristics of a New HVDC Transmission System Based on an Inductive Filtering Method. IEEE Transactions on Power Electronics, 2011, 26, 1976-1986.	5.4	28
70	LMI-based robust wide-area time-delay damping control of SSSC-type FACTS device for stability enhancement of power system. , 2010, , .		2
71	Study on the Effects of the DC Bias on the Harmonic Characteristics of the New Converter Transformer. , 2010, , .		7
72	Research on Principle and Characteristics of Superconductive Harmonic Current Absorber. , 2010, , .		0

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73	Feasibility Study on Application of Voltage Source Inductive Filtering Converter in HVDC-Light Systems. , 2010, , .		2
74	Technical analysis and synthesis energy saving design of the high power DC power supply system. , 2010, , .		2
75	A new auto-inductive harmonic-suppression transformer and its harmonic equivalent circuit model. , 2010, , .		0
76	Applied Research on the Impedance Matching Balance Transformer of Three-Phase to Four-Phase Used in AT Traction Power Supply System. , 2010, , .		1
77	Research on Application of Novel Harmonic Suppression Rectifier Transformer and Its Filter System in the Electrolysis Rectifier System. , 2010, , .		3
78	Study on Characteristic Parameters of a New Converter Transformer for HVDC Systems. IEEE Transactions on Power Delivery, 2009, 24, 2125-2131.	2.9	43
79	The new converter transformer's short-circuit fault calculation based on phase-coordinate method. , 2009, , .		0
80	A New Converter Transformer and a Corresponding Inductive Filtering Method for HVDC Transmission System. IEEE Transactions on Power Delivery, 2008, 23, 1426-1431.	2.9	68
81	Harmonic characteristics of new HVDC transmission system based on new converter transformer. , 2008, , .		13
82	Transient response characteristics of new HVDC transmission system based on new converter transformer. , 2008, , .		8
83	The mathematical model of new converter transformer based on polymorphic phase-coordinate method. , 2008, , .		3
84	Multi-purpose balanced transformer with harmonic eliminating capability for railway traction applications. , 2008, , .		1
85	Influence analysis of Compensation Factor at the valve side on HVDC transmission system based on filter commutated converter. , 2008, , .		1
86	Transient Simulation of the AC/DC System Based on the New-type Converter Transformer. , 2006, , .		3
87	Analysis of nonlinear electric field of hvdc wall bushing with a finite element approach. Open Physics, 2005, 3, .	0.8	0
88	A practical microcomputer system for single-phase brushless DC motor. , 0, , .		0