Longfu Luo

List of Publications by Year
in descending order

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88 papers	1,342 citations	304602 22 h-index	360920 35 g-index
88 all docs	88 docs citations	88 times ranked	1125 citing authors

#	Article	IF	Citations
1	Power Quality Management of PV Power Plant With Transformer Integrated Filtering Method. IEEE Transactions on Power Delivery, 2019, 34, 941-949.	2.9	80
2	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
3	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
4	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
5	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
6	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
7	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
8	Electromagnetic Vibration Analysis of the Winding of a New HVDC Converter Transformer. IEEE Transactions on Power Delivery, 2012, 27, 123-130.	2.9	53
9	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
10	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
11	An Industrial DC Power Supply System Based on an Inductive Filtering Method. IEEE Transactions on Industrial Electronics, 2012, 59, 714-722.	5.2	46
12	Study on Characteristic Parameters of a New Converter Transformer for HVDC Systems. IEEE Transactions on Power Delivery, 2009, 24, 2125-2131.	2.9	43
13	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
14	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
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	Electromagnetic field and thermal distribution optimisation in shellâ€type traction transformers. IET Electric Power Applications, 2013, 7, 627-632.	1.1	16
27	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
28	An Integrated Harmonic-Filtering Transformer for Low-Voltage Distribution Systems. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	14
29	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
30	Harmonic characteristics of new HVDC transmission system based on new converter transformer. , 2008, , .		13
31	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
32	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
33	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
34	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
35	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
36	Renewable Energy Integration in Intelligent Railway of China: Configurations, Applications and Issues. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 13-33.	2.6	10

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37	Transient response characteristics of new HVDC transmission system based on new converter transformer. , 2008, , .		8
38	Vibration and noise characteristics of the inductive filtering converter transformer. Electronics Letters, 2017, 53, 678-679.	0.5	8
39	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
40	Study on the Effects of the DC Bias on the Harmonic Characteristics of the New Converter Transformer. , 2010, , .		7
41	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
42	Active power filter integrated with distribution transformer based on magnetic potential balance. IET Generation, Transmission and Distribution, 2019, 13, 238-247.	1.4	7
43	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
44	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
45	Noise characteristics of the new converter transformer under DC bias. Electronics Letters, 2017, 53, 672-674.	0.5	6
46	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
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	A current balance compensation method for traction substation based on SVG and V/v transformer. , 2017, , .		5
49	Transient Simulation of the AC/DC System Based on the New-type Converter Transformer. , 2006, , .		3
50	The mathematical model of new converter transformer based on polymorphic phase-coordinate method. , 2008, , .		3
51	Research on Application of Novel Harmonic Suppression Rectifier Transformer and Its Filter System in the Electrolysis Rectifier System. , 2010, , .		3
52	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
53	Capacitive Filter Based HVDC Converter for Reducing the Vibration and Noise of Converter Transformer. IEEE Access, 2022, 10, 78634-78642.	2.6	3
54	LMI-based robust wide-area time-delay damping control of SSSC-type FACTS device for stability enhancement of power system. , 2010, , .		2

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55	Feasibility Study on Application of Voltage Source Inductive Filtering Converter in HVDC-Light Systems. , 2010, , .		2
56	Technical analysis and synthesis energy saving design of the high power DC power supply system. , 2010, , .		2
57	Vibration modal analysis and calculation of a new HVDC converter transformer with inductive filtering method. , 2015, , .		2
58	Principle research on suppressing harmonic instability of HVDC transmission by using an inductive filtering method. , 2015, , .		2
59	A hybrid power conditioner for co-phase power supply system and its capacity analysis. , 2017, , .		2
60	High Reliability Dynamic Voltage Restorer Based on Multi-winding Transformer. , 2019, , .		2
61	Multi-purpose balanced transformer with harmonic eliminating capability for railway traction applications. , 2008, , .		1
62	Influence analysis of Compensation Factor at the valve side on HVDC transmission system based on filter commutated converter. , 2008, , .		1
63	Applied Research on the Impedance Matching Balance Transformer of Three-Phase to Four-Phase Used in AT Traction Power Supply System. , 2010, , .		1
64	Harmonic Current Detection Algorithm Based on the Improved FBD Method and Its Application in Active Power Filters. , 2012, , .		1
65	Improvement of power quality and dynamic voltage of wind farms using an inductive filtering method. , 2015, , .		1
66	A controllably inductive power filtering method for large-power industrial rectifier system. , 2016, , .		1
67	Research on subway energy internet based on power electronic transformer. , 2017, , .		1
68	Optimized Inductive Filter Device Design for a Novel Transformer Based on Improved Immune Genetic Algorithm. , 2018, , .		1
69	Analysis of an Improved Voltage-balancing Control Method of Modular Multilevel Converter Based on Amplitude-adjustable Carrier. , 2018, , .		1
70	A new compensation system for Vv cophase traction power supply system. , 2018, , .		1
71	A Compound Control Strategy of Dynamic Voltage Restorer based on Multiple Winding Transformer. , 2019, , .		1
72	An Identification Method of Fault Type Based on GWO-SVM for Distribution Network. , 2019, , .		1

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73	More Efficient AC Filterless HVDC with Low Noise of Transformer. , 2020, , .		1
74	A practical microcomputer system for single-phase brushless DC motor. , 0, , .		0
75	Analysis of nonlinear electric field of hvdc wall bushing with a finite element approach. Open Physics, 2005, 3, .	0.8	0
76	The new converter transformer's short-circuit fault calculation based on phase-coordinate method. , 2009, , .		0
77	Research on Principle and Characteristics of Superconductive Harmonic Current Absorber. , 2010, , .		0
78	A new auto-inductive harmonic-suppression transformer and its harmonic equivalent circuit model. , 2010, , .		0
79	A new shipboard power supply system based on a rectifier transformer with integrated filtering reactor. , 2016, , .		0
80	Characteristic analysis of HVDC system with shunt capacitance commutated converter. , 2017, , .		0
81	A Novel SOC Distributed Equalization Control Strategy for Energy Storage Units in DC Microgrids. , 2019, , .		0
82	Power Quality Survey of Industrial Large-power DC Supply System. , 2019, , .		0
83	Compensation Strategy for Multiple Series Centralized Voltage Sag in Medium Voltage Distribution Network. , 2019, , .		0
84	Study of the Harmonic Analysis and Energy Transmission Mechanism of the Frequency Conversion Transformer. Energies, 2022, 15, 519.	1.6	0
85	Research on Vibration and Noise of Induction Motor under Variable Frequency. Symmetry, 2022, 14, 569.	1.1	0
86	A Novel HVDC Converter for Reducing Commutation Failure Probability. , 2021, , .		0
87	Research on dynamic characteristics of inverter when fault occurs in HVDC receiving end equipped with synchronous condenser. , 2021, , .		0
88	Day-Ahead Wind Power Prediction Based on BP Neural Network Optimized by Improved Sparrow Search Algorithm. , 2022, , .		0