

# NingYi Dai

## List of Publications by Year in descending order

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69  
papers

1,544  
citations

430874

18  
h-index

414414

32  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1078  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence in sustainable energy industry: Status Quo, challenges and opportunities. Journal of Cleaner Production, 2021, 289, 125834.	9.3	288
2	Analysis, Design, and Implementation of a Quasi-Proportional-Resonant Controller for a Multifunctional Capacitive-Coupling Grid-Connected Inverter. IEEE Transactions on Industry Applications, 2016, 52, 4269-4280.	4.9	145
3	Application of a three-level NPC inverter as a three-phase four-wire power quality compensator by generalized 3DSVM. IEEE Transactions on Power Electronics, 2006, 21, 440-449.	7.9	119
4	Hybrid Power Quality Compensator With Minimum DC Operation Voltage Design for High-Speed Traction Power Systems. IEEE Transactions on Power Electronics, 2013, 28, 2024-2036.	7.9	92
5	A Systematic Approach to Hybrid Railway Power Conditioner Design With Harmonic Compensation for High-Speed Railway. IEEE Transactions on Industrial Electronics, 2015, 62, 930-942.	7.9	82
6	Hybrid power quality conditioner for co-phase power supply system in electrified railway. IET Power Electronics, 2012, 5, 1084-1094.	2.1	76
7	A FPGA-Based Generalized Pulse Width Modulator for Three-Leg Center-Split and Four-Leg Voltage Source Inverters. IEEE Transactions on Power Electronics, 2008, 23, 1472-1484.	7.9	72
8	Mathematical Modeling of a 12-Phase Flux-Switching Permanent-Magnet Machine for Wind Power Generation. IEEE Transactions on Industrial Electronics, 2016, 63, 504-516.	7.9	72
9	Modelling and control of a railway power conditioner in co-phase traction power system under partial compensation. IET Power Electronics, 2014, 7, 1044-1054.	2.1	63
10	A Virtual-Impedance Droop Control for Accurate Active Power Control and Reactive Power Sharing Using Capacitive-Coupling Inverters. IEEE Transactions on Industry Applications, 2020, 56, 6722-6733.	4.9	53
11	Comparative Study of Switched Reluctance Machines With Half-and Full-Teeth-Wound Windings. IEEE Transactions on Industrial Electronics, 2016, 63, 1414-1424.	7.9	37
12	Scheduling Thermostatically Controlled Loads to Provide Regulation Capacity Based on a Learning-Based Optimal Power Flow Model. IEEE Transactions on Sustainable Energy, 2021, 12, 2459-2470.	8.8	31
13	Analysis, control and experimental verification of a single-phase capacitive-coupling grid-connected inverter. IET Power Electronics, 2015, 8, 770-782.	2.1	30
14	A Co-Phase Traction Power Supply System Based on Asymmetric Three-Leg Hybrid Power Quality Conditioner. IEEE Transactions on Vehicular Technology, 2020, 69, 14645-14656.	6.3	25
15	Analysis of the Effects of Operation Voltage Range in Flexible DC Control on Railway HPQC Compensation Capability in High-Speed Co-phase Railway Power. IEEE Transactions on Power Electronics, 2018, 33, 1760-1774.	7.9	23
16	Compensation of Current Measurement Offset Error for Permanent Magnet Synchronous Machines. IEEE Transactions on Power Electronics, 2020, 35, 11119-11128.	7.9	23
17	Design considerations of coupling inductance for active power filters. , 2011, , .		22
18	Analysis in the Effect of Co-phase Traction Railway HPQC Coupled Impedance on Its Compensation Capability and Impedance-Mapping Design Technique Based on Required Compensation Capability for Reduction in Operation Voltage. IEEE Transactions on Power Electronics, 2017, 32, 2631-2646.	7.9	21

#	ARTICLE	IF	CITATIONS
19	PQ-Coupling Strategy for Droop Control in Grid-Connected Capacitive-Coupled Inverter. IEEE Access, 2019, 7, 31663-31671.	4.2	19
20	Application of three-phase modular multilevel converter (MMC) in co-phase traction power supply system. , 2014, , .		14
21	Low DC voltage PV generation system with power factor correction and harmonic suppression capability in a distribution network. IET Generation, Transmission and Distribution, 2019, 13, 1049-1056.	2.5	14
22	A hybrid railway power conditioner for traction power supply system. , 2013, , .		11
23	Self-Reconfiguration Property of a Mixed Signal Controller for Improving Power Quality Compensation During Light Loading. IEEE Transactions on Power Electronics, 2015, 30, 5938-5951.	7.9	11
24	Interpolated Phase-Shifted PWM for Harmonics Suppression of Multilevel Hybrid Railway Power Conditioner in Traction Power Supply System. IEEE Transactions on Transportation Electrification, 2022, 8, 898-908.	7.8	11
25	Distributed Control of Large-Scale Inverter Air Conditioners for Providing Operating Reserve Based on Consensus With Nonlinear Protocol. IEEE Internet of Things Journal, 2022, 9, 15847-15857.	8.7	11
26	Study on DC voltage control of hybrid active power filters. , 2011, , .		9
27	FPGA-based decoupled double synchronous reference frame PLL for active power filters. , 2011, , .		9
28	Hybrid railway power conditioner based on half-bridge modular multilevel converter. , 2016, , .		9
29	Topology and operation mechanism of monopolar-to-bipolar DC-DC converter interface for DC grid. , 2016, , .		9
30	Continuous Random Process Modeling of AGC Signals Based on Stochastic Differential Equations. IEEE Transactions on Power Systems, 2021, 36, 4575-4587.	6.5	9
31	Railway power conditioner based on delta-connected modular multilevel converter. , 2016, , .		8
32	Optimize the series LC design of a quasi proportional-resonant controlled hybrid active power filter for harmonic compensation. , 2016, , .		8
33	Capacitive-coupled grid-connected inverter with active power injection ability. , 2012, , .		7
34	Multifunctional Voltage Source Inverter for Renewable Energy Integration and Power Quality Conditioning. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	7
35	Adaptive thermal control for power fluctuation to improve lifetime of IGBTs in multi-MW medium voltage wind power converter. , 2014, , .		7
36	Analysis, design and implementation of a quasi-proportional-resonant controller for multifunctional capacitive-coupling grid-connected inverter. , 2015, , .		7

#	ARTICLE	IF	CITATIONS
37	Harmonic reference currents balancing method for delta-connected static synchronous compensator. <i>Electronics Letters</i> , 2015, 51, 2134-2136.	1.0	7
38	Nonuniform Power Factor Partial Compensation for Compensating Current Reduction Using Particle Swarm Optimization in Traction Power Supply System. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 6140-6151.	7.9	7
39	Comparison of stator and rotor surface-mounted PM brushless machines. <i>IET Electric Power Applications</i> , 2020, 14, 62-70.	1.8	6
40	Comparison of structure topologies for hybrid filters. , 2008, , .		5
41	Application of 3D direct PWM in parallel power quality compensators in three-phase four-wire systems. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , 2008, , .	0.0	5
42	A FPGA-based power electronics controller for hybrid active power filters. , 2011, , .		5
43	Adaptive DC voltage control for single-phase hybrid filter with PV integration capability. , 2015, , .		5
44	Regulation capacity evaluation of large-scale residential air conditioners for improving flexibility of urban power systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 142, 108269.	5.5	5
45	Hybrid cascaded multilevel converter for medium-voltage large-capacity applications. , 2011, , .		4
46	Design of LCL filter for harmonic suppression in co-phase railway power quality conditioner. , 2013, , .		4
47	Capacitive-coupling inverter for PV integration: Analysis and implementation. , 2014, , .		4
48	Hybrid railway power conditioner based on chopper cell modular multilevel converter with four legs. , 2017, , .		4
49	The Analysis of Hysteresis Current Control Strategy of Three-phase Four-wire Shunt APF Based on the Unified Topology. , 2007, , .		3
50	Modeling and control of Railway Static Power Conditioner compensation based on power quality standards. , 2012, , .		3
51	An improved closed-loop droop control technique for higher utilization of power output capability in CCI. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 109, 455-469.	5.5	3
52	Application of Soft Open Point for Flexible Interconnection of Urban Distribution Network. , 2019, , .		3
53	Tertiary regulation of cascaded run-of-river hydropower in the islanded renewable power system considering multi-timescale dynamics. <i>IET Renewable Power Generation</i> , 2021, 15, 1778-1795.	3.1	3
54	Voltage Mode Controller Design and Experimental Verification of a Three-Phase Capacitive-Coupling Grid Connected Inverter in PV System. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
55	Coordinated Power Control for Distributed Hybrid Energy Storage in DC PV Power Collection System. , 2020, , .		2
56	Voltage Source Rectifiers with Power Synchronization Control. , 2020, , .		2
57	Single Bus Data-driven Power Estimation Based on Modified Linear Power Flow Model. , 2021, , .		2
58	Droop-boost control for single-phase hybrid power filter. , 2015, , .		1
59	Guest Editorial Special Issue on IEEE RFID-TA 2018 Conference. IEEE Journal of Radio Frequency Identification, 2019, 3, 119-120.	2.3	1
60	Hybrid railway power conditioner with partial compensation for rating optimization. , 2014, , .		0
61	Optimized design for multi-MW wind power converter based on efficiency and reliability. , 2014, , .		0
62	Novel single phase Dynamic Voltage Restorer based on DC-modulation AC/AC technique. , 2015, , .		0
63	Various Design Techniques of Co-phase Traction Power with Railway HPQC for Varying Load. , 2019, , 113-184.		0
64	Partial Compensation Control in Co-phase Traction Power for Device Rating Reduction. , 2019, , 185-204.		0
65	Minimum Operation Voltage Design of Co-phase Traction Power with Railway HPQC for Steady Rated Load. , 2019, , 65-111.		0
66	Hardware Construction and Experimental Results. , 2019, , 205-225.		0
67	Topology-free optimal power dispatch for distribution network considering security constraints and flexible building thermal inertia. , 2021, , .		0
68	Regulation Capacity Evaluation of Large-scale Heterogeneous Residential Air Conditioning Loads. , 2021, , .		0
69	Anticipatory Control of Flexible Loads for System Resilience Enhancement Facing Accidental Outages. , 2021, , .		0