

Yongdong Li

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

165
papers

2,473
citations

22
h-index

45
g-index

229
ext. papers

3,333
ext. citations

5.3
avg, IF

5.55
L-index

#	Paper	IF	Citations
165	Voltage Balancing and Fluctuation-Suppression Methods of Floating Capacitors in a New Modular Multilevel Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 1943-1954	8.9	225
164	Online Identification of Permanent Magnet Flux Based on Extended Kalman Filter for IPMSM Drive With Position Sensorless Control. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 4169-4178	8.9	169
163	A Hybrid Cascaded Multilevel Converter for Battery Energy Management Applied in Electric Vehicles. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 3537-3546	7.2	142
162	DC-link Voltage Control of a Full Power Converter for Wind Generator Operating in Weak-Grid Systems. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 2178-2192	7.2	142
161	Torque Ripple Reduction of the Torque Predictive Control Scheme for Permanent-Magnet Synchronous Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 871-877	8.9	124
160	Modeling and Control of a Multiport Power Electronic Transformer (PET) for Electric Traction Applications. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 915-927	7.2	95
159	Capacitor Voltage Balancing of a Five-Level ANPC Converter Using Phase-Shifted PWM. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 1147-1156	7.2	95
158	Neutral-Point Potential Balancing of a Five-Level Active Neutral-Point-Clamped Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 1907-1918	8.9	95
157	Reduction of Common-Mode Voltage in Multiphase Two-Level Inverters Using SPWM With Phase-Shifted Carriers. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 6631-6645	7.2	66
156	A Transformer-Less High-Power Converter for Large Permanent Magnet Wind Generator Systems. <i>IEEE Transactions on Sustainable Energy</i> , 2012 , 3, 318-329	8.2	66
155	Hierarchical System Design and Control of an MMC-Based Power-Electronic Transformer. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 238-247	11.9	59
154	Control of variable pitch and variable speed direct-drive wind turbines in weak grid systems with active power balance. <i>IET Renewable Power Generation</i> , 2014 , 8, 119-131	2.9	45
153	Topology and Capacitor Voltage Balancing Control of a Symmetrical Hybrid Nine-Level Inverter for High-Speed Motor Drives. <i>IEEE Transactions on Industry Applications</i> , 2017 , 53, 5563-5572	4.3	43
152	Interior Permanent-Magnet Synchronous Motor Design for Improving Self-Sensing Performance at Very Low Speed. <i>IEEE Transactions on Industry Applications</i> , 2009 , 45, 1939-1946	4.3	41
151	Improved Crowbar Control Strategy of DFIG Based Wind Turbines for Grid Fault Ride-Through 2009 ,		39
150	. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 759-769	5.4	37
149	An Improved Model Predictive Direct Torque Control Strategy for Reducing Harmonic Currents and Torque Ripples of Five-Phase Permanent Magnet Synchronous Motors. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 5820-5829	8.9	35

148	Adaptive Multi-Mode Power Control of a Direct-Drive PM Wind Generation System in a Microgrid. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2013 , 1, 217-225	5.6	34
147	A Generalized Carrier-Overlapped PWM Method for Neutral-Point-Clamped Multilevel Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9095-9106	7.2	30
146	A Novel Carrier-Overlapped PWM Method for Four-Level Neutral-Point Clamped Converters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7-12	7.2	30
145	A Converter-Based Starting Method and Speed Control of Doubly Fed Induction Machine With Centrifugal Loads. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1409-1418	4.3	25
144	Stability and Voltage Balance Control of a Modular Converter With Multiwinding High-Frequency Transformer. <i>IEEE Transactions on Power Electronics</i> , 2014 , 29, 4183-4194	7.2	24
143	2014 ,		22
142	Topology and Control of a Five-Level Hybrid-Clamped Converter for Medium-Voltage High-Power Conversions. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4690-4702	7.2	20
141	Analysis and Suppression of Shaft Voltage in SiC-Based Inverter for Electric Vehicle Applications. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6276-6285	7.2	20
140	Energy management of hybrid DC and AC bus linked microgrid 2010 ,		19
139	An Optimized Carrier-Based PWM Method and Voltage Balancing Control for Five-Level ANPC Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9120-9132	8.9	19
138	Sensorless control of PMSM based on extended kalman filter 2007 ,		18
137	Optimized Branch Current Control of Modular Multilevel Matrix Converters Under Branch Fault Conditions. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4578-4583	7.2	17
136	Current Balance Control for Symmetrical Multiphase Inverters. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 4005-4012	7.2	17
135	An Online Global Fault-Tolerant Control Strategy for Symmetrical Multiphase Machines With Minimum Losses in Full Torque Production Range. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2819-2830	7.2	17
134	PI type dynamic decoupling control scheme for PMSM high speed operation 2010 ,		16
133	Voltage balancing control and experiments of a novel modular multilevel converter 2010 ,		16
132	A control method for grid-friendly photovoltaic systems with hybrid energy storage units 2011 ,		16
131	A Sawtooth Carrier-Based PWM for Asymmetrical Six-Phase Inverters With Improved Common-Mode Voltage Performance. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 9444-9458	7.2	15

130	Analysis and design of virtual synchronous machine based STATCOM controller 2014 ,		15
129	Stability Analysis of Power Systems With Multiple STATCOMs in Close Proximity. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 2268-2283	7.2	15
128	Evaluation and control design of virtual-synchronous-machine-based STATCOM for grids with high penetration of renewable energy 2014 ,		14
127	Control strategies of DC-bus voltage in islanded operation of microgrid 2011 ,		14
126	A Modified PSPWM for a Five-Level Hybrid-Clamped Inverter to Reduce Flying Capacitor Size. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 1658-1666	4.3	13
125	Time Domain Analysis of Reactive Components and Optimal Modulation for Isolated Dual Active Bridge DC/DC Converters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 7143-7146	7.2	12
124	Enhanced rotor field-oriented control of multiphase induction machines based on symmetrical components theory. <i>IET Power Electronics</i> , 2019 , 12, 656-666	2.2	12
123	A Comprehensive Study of Common Mode Voltage Reduction and Neutral Point Potential Balance for a Back-to-Back Three-Level NPC Converter. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 7910-7920	7.2	12
122	Analysis and Control of Three-Phase Modular Multilevel Converters Under the Single Arm Fault Condition. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 8293-8298	7.2	11
121	2015 ,		11
120	Online Estimation of Per-phase Stator Resistance Based on DC-Signal Injection for Condition Monitoring in Multiphase Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	11
119	Multilevel Converter/Inverter Topologies and Applications 2014 , 422-462		10
118	System-Level Efficiency Evaluation of Isolated DC/DC Converters in Power Electronics Transformers for Medium-Voltage DC Systems. <i>IEEE Access</i> , 2019 , 7, 48445-48458	3.5	9
117	Impedance-based stability analysis of multiple STATCOMs in proximity 2016 ,		9
116	A branch energy control method based on optimized neutral-point voltage injection for a hexagonal modular multilevel direct converter (Hexverter) 2015 ,		9
115	Optimal Fault-tolerant Control of Multiphase Drives under Open-phase/Open-switch Faults Based on DC Current Injection. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	9
114	Fuel cell applications on more electrical aircraft 2014 ,		8
113	Voltage fluctuation suppression method of floating capacitors in a new modular multilevel converter 2011 ,		8

112	High Performance PMSM Sensorless Control with Load Torque Observation 2007 ,		8
111	A Dual-Active-Clamp Quasi-Resonant Isolated Boost Converter for PV Integration to Medium-Voltage DC Grids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 3444-3456	5.6	8
110	Loss Imbalance and Transient DC-Bias Mitigation in Dual-Active-Bridge DC/DC Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 1399-1409	5.6	8
109	State Estimation for Situational Awareness of Active Distribution System With Photovoltaic Power Plants. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 239-250	10.7	8
108	Control of variable pitch, variable speed wind turbine in weak grid systems 2010 ,		7
107	A transformerless modular permanent magnet wind generator system with minimum generator coils 2010 ,		7
106	A novel hybrid-clamped four-level converter 2012 ,		7
105	A novel control algorithm for cascade shunt active power filter		7
104	Improved Interleaved Discontinuous PWM for Zero-Sequence Circulating Current Reduction in Three-Phase Paralleled Converters. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8676-8686	8.9	7
103	An energy router based on multi-winding high-frequency transformer 2016 ,		6
102	Module-capacitor voltage fluctuation optimization control for an alternate arm converter 2015 ,		6
101	Novel adaptive power control of a Direct-drive PM wind generation system in a micro grid 2012 ,		6
100	A neutral-point potential balancing algorithm for five-level ANPC converters 2011 ,		6
99	Composite converter of hybrid storage in distributed renewable energy generation system 2011 ,		6
98	A new transformerless cascaded multilevel converter topology 2009 ,		6
97	Two Signal Injection Methods for Sensorless Control of PMSM at Very Low Speeds 2007 ,		6
96	A direct torque control of induction motor based on three-level NPC inverter		6
95	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1894-1910	5.6	6

94	Accurate frequency-domain analysis and hybrid control method for isolated dual active bridge series resonant DC/DC converters. <i>IET Power Electronics</i> , 2019 , 12, 2932-2941	2.2	6
93	A Fuzzy Approximation for FCS-MPC in Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	6
92	Permanent magnet synchronous machine starter/generators based high-voltage DC parallel electric power system for the more electric aircraft. <i>Journal of Engineering</i> , 2018 , 2018, 565-569	0.7	5
91	A new five-level hybrid-clamped converter with reduced number of clamping devices 2014 ,		5
90	Multi-objective optimization PWM control for a back-to-back five-level ANPC converter 2012 ,		5
89	A novel position sensor-less control scheme of Doubly Fed Induction Wind Generator based on MRAS method 2008 ,		5
88	A three-level speed sensor-less DTC drive of induction motor based on a full-order flux observer		5
87	A High-Step-Up Low-Ripple and High-Efficiency DC-DC Converter for Fuel-Cell Vehicles. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	5
86	A New Control Strategy for Modular Multilevel Converter Operating in Quasi Two-Level PWM Mode 2018 ,		5
85	Research on Output Voltage Modulation of a Five-Level Matrix Converter. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 2568-2583	7.2	4
84	Active and reactive power flow analysis of a STATCOM with virtual synchronous machine control 2015 ,		4
83	Impact of PV inverter penetration on voltage profile and power loss in medium voltage distribution systems 2016 ,		4
82	230 VAC/28 VDC high-power density power supply for more electric aircraft applications. <i>Journal of Engineering</i> , 2018 , 2018, 499-505	0.7	4
81	A common-mode voltage reduction method for a back-to-back four-level hybrid-clamped converter 2015 ,		4
80	A capacitor voltage balancing strategy for a five-level hybrid-clamped inverter 2015 ,		4
79	Control strategy of a multi-level converter with multi-winding MFT/HFT isolation 2014 ,		4
78	High-Performance Control Strategies and Applications of a New Hybrid Cascaded Multilevel Inverter 2008 ,		4
77	A speed fluctuation reduction method for sensorless PMSM-compressor system 2005 ,		4

76	Applications of induction motor drive based on DTC in railway traction		4
75	PWM rectifier in power cell of cascaded H-bridge multilevel converter 2007 ,		4
74	A symmetrical hybrid nine-level inverter for high speed open-winding motor drive system 2016 ,		4
73	Current Discrepancy Mitigation of Input-Parallel Output-Parallel Dual-Active-Bridge Converters Using Coupled Inductors. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 8182-8192	8.9	4
72	A General Analytical Model and Optimization for Leakage Inductances of Medium-Frequency Transformers. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	4
71	Design, analysis and experimental evaluation of a virtual-synchronous-machine-based STATCOM with LCL filter 2015 ,		3
70	Open-Loop Gate Control for Optimizing the Turn-ON Transition of SiC MOSFETs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1126-1136	5.6	3
69	An offset-free robust model predictive control with incremental model and improved current observer for induction motor. <i>International Transactions on Electrical Energy Systems</i> , 2019 , 29, e12130	2.2	3
68	Application of D-Q frame impedance-based stability criterion in power systems with multiple STATCOMs in proximity 2017 ,		3
67	Multi-mode SHEPWM with low switch frequency for traction application 2017 ,		3
66	Analysis of small-signal impedance of STATCOMs in D-Q frame 2017 ,		3
65	Parameter identification of nine-phase induction machines with concentrated windings 2014 ,		3
64	Power balancing control of a multilevel converter using high-frequency multi-winding transformer 2012 ,		3
63	Voltage balancing control of a four-level hybrid-clamped inverter using modified phase-shifted PWM 2013 ,		3
62	Investigation of Control Method for a New Hybrid Cascaded Multilevel Inverter 2007 ,		3
61	Predictive direct torque control strategies of induction motor based on area voltage vectors table		3
60	Speed sensorless DTC and parameter estimation of induction motor based on a full-order MRAS method		3
59	Virtual vectors based predictive control of torque and flux of induction motor and speed sensorless drives		3

58	Fault Detection and Tolerant Control of IGBT Open-Circuit Failures in Modular Multilevel Matrix Converters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1	5.6	3
57	Parasitic Parameter Extraction and Identification Method for HFT based on DC-DC Converter in EV Application. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	3
56	A modular DC solid state transformer for future onboard DC grid 2016 ,		3
55	A Quasi-Two-Level Medium-Voltage SiC MOSFET Power Module With Low Loss and Voltage Self-Balance. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 519-533	7.2	3
54	A robust offset-free model predictive current control for induction motor based on incremental model and incremental current observer 2019 ,		2
53	Shunt Isolated Active Power Filter With Common DC Link Integrating Braking Energy Recovery in Urban Rail Transit. <i>IEEE Access</i> , 2019 , 7, 39180-39191	3.5	2
52	Control strategies of a multiport power electronic transformer (PET) for DC distribution applications 2015 ,		2
51	Common-mode voltage reduction for three-phase-to-four-leg direct matrix converter with a novel control strategy 2017 ,		2
50	A Novel Hybrid T-Type Three-Level Inverter Based on SVPWM for PV Application. <i>Journal of Electrical and Computer Engineering</i> , 2018 , 2018, 1-12	1.9	2
49	A Modular-Cascaded Active-Balanced Storage System for Electric Transportation 2018 ,		2
48	Hardware-in-the-loop real-time platform for more electric aircraft. <i>Journal of Engineering</i> , 2018 , 2018, 446-452	0.7	2
47	Phase-shift full bridge power supply based on SiC devices. <i>Journal of Engineering</i> , 2018 , 2018, 453-460	0.7	2
46	A carrier-based PWM method with zero-sequence current elimination for multiphase double-end winding drives 2015 ,		2
45	Stability assessment of utility PV integration to the distributed systems based on D-Q frame impedances and GNC 2017 ,		2
44	Stability analysis on D-Q frame impedances in power systems with multiple STATCOMs in proximity 2017 ,		2
43	PWM strategy of a novel cascaded multi-level converter for battery management 2014 ,		2
42	Comparison of four carrier-based PWM methods for two-level five-phase inverter 2014 ,		2
41	Power characteristics of isolation units in a novel power electronic transformer (PET) for locomotive traction applications 2014 ,		2

40	A novel medium-frequency-transformer isolated matrix converter for wind power conversion applications 2014 ,		2
39	A novel MPC flux weakening method for induction motor applied in electric wheel 2013 ,		2
38	A new adaptive flux weakening method of PMSM 2011 ,		2
37	Sensor-less Drive of Induction Motor Based on A New Hybrid Cascaded Multilevel Inverter 2009 ,		2
36	A novel control strategy for brushless DC motor drive with low torque ripples 2005 ,		2
35	A novel implementation of SVPWM algorithm and its application to three-phase power converter		2
34	Optimization of medium-frequency transformers with large capacity and high insulation requirement 2020 ,		2
33	A Fast Multilevel SVPWM Method Based on the Imaginary Coordinate With Direct Control of Redundant Vectors or Zero Sequence Components. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2020 , 1, 355-366	3.6	2
32	Analysis and Control of Current Harmonics in Multiphase Machines in Fault-tolerant Operation against Open-phase Faults 2019 ,		2
31	Research on Topology and Control of Household Energy Routers Based on Direct AC/AC Power Electronic Transformer 2018 ,		2
30	A Modular Cascaded Multilevel Buck Converter Based on GaN Devices Designed for High Power Envelope Elimination and Restoration Applications 2018 ,		2
29	Research on three-phase four-leg matrix converter based more electric aircraft wing ice protection system. <i>Journal of Engineering</i> , 2018 , 2018, 529-533	0.7	2
28	Assessment of Virtual Synchronous Machine based Control in Grid-Tied Power Converters 2018 ,		2
27	A Generalized Simplified Virtual Vector PWM to Balance the Capacitor Voltages of Multilevel Diode-Clamped Converters. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	2
26	A Generalized, Fast and Robust Open-Circuit Fault Diagnosis Technique for Star-connected Symmetrical Multiphase Drives. <i>IEEE Transactions on Energy Conversion</i> , 2022 , 1-1	5.4	2
25	Multi-objective optimization control of a four-level hybrid-clamped inverter 2015 ,		1
24	Experimental verification of a virtual synchronous generator control concept 2016 ,		1
23	Capacitor design optimization and power balance control for LLC resonant converter based power electronic traction transformer 2016 ,		1

22	Capacitor voltage estimation method of a symmetrical hybrid nine-level inverter with reduced voltage sensors 2017 ,		1
21	Sensorless fault-tolerant control of multiphase induction machine using virtual winding and adaptive observer 2017 ,		1
20	A novel modulation with voltage balancing control for a modular matrix converter 2014 ,		1
19	Modeling and control strategy for cascade bi-directional DC/DC converter in Microgrid 2012 ,		1
18	PIR-based control for three-phase PWM rectifier with H-bridge load 2009 ,		1
17	Low Voltage Ride-Through of high power DFIG wind turbine using three-level NPC converters 2009 ,		1
16	Predictive Control of Torque and Flux of Induction Motor Drives		1
15	Identification of rotor resistance for induction motor with injection of torque disturbance		1
14	Research on Modelling and Stability Characteristics of Electric Traffic Energy System Based on ZVS-DAB Converter. <i>Journal of Electrical and Computer Engineering</i> , 2020 , 2020, 1-10	1.9	1
13	Common Mode Voltage and Neutral Point Potential Optimization Control for a Three-Level NPC Inverter 2019 ,		1
12	A Neutral-Point Potential Balancing Method for a Three-Level Neutral-Point-Clamped Back-to-Back Converter 2019 ,		1
11	Impact of the Parasitic Resistors in Compensation Inductors on a Multi-stage and Multi-load Wireless Power Transfer System 2019 ,		1
10	Zero Sequence Circulating Current Reduction of Paralleled Converters With Interleaved Discontinuous PWM 2019 ,		1
9	MRAS Based Sensorless Control of High Speed PMSMs with I-F Startup Strategy 2018 ,		1
8	Vector control implementation in field programmable gate array for 200kHz GaN-based motor drive systems. <i>Journal of Engineering</i> , 2018 , 2018, 650-653	0.7	1
7	A Modular Multilevel T-Type Inverter Based on SVPWM for PV System Application 2018 ,		1
6	A Comprehensive Framework for Robust AC/DC Grid State Estimation against Measurement and Control Input Errors. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	1
5	Comprehensive control strategy and robust operation for input series output parallel power electronics transformers in MVDC grids. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12437	2.2	

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| 4 | Research on space-vector modulation and common-mode voltage of four-leg matrix converter. <i>Journal of Engineering</i> , 2018 , 2018, 558-564 | 0.7 |
| 3 | Submodule Fault-Tolerant Control of Modular Multilevel Matrix Converters with Adaptive Optimum Common-Mode Voltage Injection. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1 | 7.2 |
| 2 | CMV reduction for five-level ANPC converter by PS-PWM strategy. <i>Journal of Engineering</i> , 2018 , 2018, 425-431 | 0.7 |
| 1 | Decoupled Discrete Current Control for AC Drives at Low Sampling-to-Fundamental Frequency Ratios. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022 , 1-1 | 5.6 |