

Yongdong Li

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1376359/yongdong-li-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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	
164	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
163	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
162	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
161	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
160	A Fuzzy Approximation for FCS-MPC in Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2022 , 1-1	7.2	6
159	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	
158	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
157	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
156	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
155	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
154	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
153	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
152	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
151	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
150	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
149	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

148	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	
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	Optimization of medium-frequency transformers with large capacity and high insulation requirement 2020 ,		2
145	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
144	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
143	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020 , 8, 1894-1910	5.6	6
142	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
141	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
140	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
139	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
138	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
137	A robust offset-free model predictive current control for induction motor based on incremental model and incremental current observer 2019 ,		2
136	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
135	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
134	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
133	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
132	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
131	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

130	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
129	Analysis and Control of Current Harmonics in Multiphase Machines in Fault-tolerant Operation against Open-phase Faults 2019 ,		2
128	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
127	Common Mode Voltage and Neutral Point Potential Optimization Control for a Three-Level NPC Inverter 2019 ,		1
126	A Neutral-Point Potential Balancing Method for a Three-Level Neutral-Point-Clamped Back-to-Back Converter 2019 ,		1
125	Impact of the Parasitic Resistors in Compensation Inductors on a Multi-stage and Multi-load Wireless Power Transfer System 2019 ,		1
124	Zero Sequence Circulating Current Reduction of Paralleled Converters With Interleaved Discontinuous PWM 2019 ,		1
123	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
122	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
121	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
120	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
119	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
118	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
117	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
116	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
115	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	
114	A Modular-Cascaded Active-Balanced Storage System for Electric Transportation 2018 ,		2
113	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

112	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
111	Hardware-in-the-loop real-time platform for more electric aircraft. <i>Journal of Engineering</i> , 2018 , 2018, 446-452	0.7	2
110	Phase-shift full bridge power supply based on SiC devices. <i>Journal of Engineering</i> , 2018 , 2018, 453-460	0.7	2
109	Research on Topology and Control of Household Energy Routers Based on Direct AC/AC Power Electronic Transformer 2018 ,		2
108	A Modular Cascaded Multilevel Buck Converter Based on GaN Devices Designed for High Power Envelope Elimination and Restoration Applications 2018 ,		2
107	MRAS Based Sensorless Control of High Speed PMSMs with I-F Startup Strategy 2018 ,		1
106	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
105	A New Control Strategy for Modular Multilevel Converter Operating in Quasi Two-Level PWM Mode 2018 ,		5
104	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
103	A Modular Multilevel T-Type Inverter Based on SVPWM for PV System Application 2018 ,		1
102	Assessment of Virtual Synchronous Machine based Control in Grid-Tied Power Converters 2018 ,		2
101	CMV reduction for five-level ANPC converter by PS-PWM strategy. <i>Journal of Engineering</i> , 2018 , 2018, 425-431	0.7	
100	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
99	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
98	. <i>IEEE Transactions on Energy Conversion</i> , 2017 , 32, 759-769	5.4	37
97	Common-mode voltage reduction for three-phase-to-four-leg direct matrix converter with a novel control strategy 2017 ,		2
96	Stability assessment of utility PV integration to the distributed systems based on D-Q frame impedances and GNC 2017 ,		2
95	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

94	Capacitor voltage estimation method of a symmetrical hybrid nine-level inverter with reduced voltage sensors 2017 ,		1
93	Application of D-Q frame impedance-based stability criterion in power systems with multiple STATCOMs in proximity 2017 ,		3
92	Multi-mode SHEPWM with low switch frequency for traction application 2017 ,		3
91	Stability analysis on D-Q frame impedances in power systems with multiple STATCOMs in proximity 2017 ,		2
90	Analysis of small-signal impedance of STATCOMs in D-Q frame 2017 ,		3
89	Sensorless fault-tolerant control of multiphase induction machine using virtual winding and adaptive observer 2017 ,		1
88	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
87	Experimental verification of a virtual synchronous generator control concept 2016 ,		1
86	Impact of PV inverter penetration on voltage profile and power loss in medium voltage distribution systems 2016 ,		4
85	Impedance-based stability analysis of multiple STATCOMs in proximity 2016 ,		9
84	Capacitor design optimization and power balance control for LLC resonant converter based power electronic traction transformer 2016 ,		1
83	An energy router based on multi-winding high-frequency transformer 2016 ,		6
82	Current Balance Control for Symmetrical Multiphase Inverters. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 4005-4012	7.2	17
81	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
80	A symmetrical hybrid nine-level inverter for high speed open-winding motor drive system 2016 ,		4
79	A modular DC solid state transformer for future onboard DC grid 2016 ,		3
78	Design, analysis and experimental evaluation of a virtual-synchronous-machine-based STATCOM with LCL filter 2015 ,		3
77	Multi-objective optimization control of a four-level hybrid-clamped inverter 2015 ,		1

76	Active and reactive power flow analysis of a STATCOM with virtual synchronous machine control 2015,		4
75	2015,		11
74	Control strategies of a multiport power electronic transformer (PET) for DC distribution applications 2015,		2
73	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
72	A carrier-based PWM method with zero-sequence current elimination for multiphase double-end winding drives 2015,		2
71	A branch energy control method based on optimized neutral-point voltage injection for a hexagonal modular multilevel direct converter (Hexverter) 2015,		9
70	Module-capacitor voltage fluctuation optimization control for an alternate arm converter 2015,		6
69	A common-mode voltage reduction method for a back-to-back four-level hybrid-clamped converter 2015,		4
68	A capacitor voltage balancing strategy for a five-level hybrid-clamped inverter 2015,		4
67	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
66	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
65	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
64	Multilevel Converter/Inverter Topologies and Applications 2014, 422-462		10
63	2014,		22
62	Analysis and design of virtual synchronous machine based STATCOM controller 2014,		15
61	PWM strategy of a novel cascaded multi-level converter for battery management 2014,		2
60	Comparison of four carrier-based PWM methods for two-level five-phase inverter 2014,		2
59	Evaluation and control design of virtual-synchronous-machine-based STATCOM for grids with high penetration of renewable energy 2014,		14

58	Fuel cell applications on more electrical aircraft 2014 ,		8
57	A novel modulation with voltage balancing control for a modular matrix converter 2014 ,		1
56	A new five-level hybrid-clamped converter with reduced number of clamping devices 2014 ,		5
55	Power characteristics of isolation units in a novel power electronic transformer (PET) for locomotive traction applications 2014 ,		2
54	Control strategy of a multi-level converter with multi-winding MFT/HFT isolation 2014 ,		4
53	A novel medium-frequency-transformer isolated matrix converter for wind power conversion applications 2014 ,		2
52	Parameter identification of nine-phase induction machines with concentrated windings 2014 ,		3
51	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
50	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
49	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
48	Voltage balancing control of a four-level hybrid-clamped inverter using modified phase-shifted PWM 2013 ,		3
47	A novel MPC flux weakening method for induction motor applied in electric wheel 2013 ,		2
46	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
45	Multi-objective optimization PWM control for a back-to-back five-level ANPC converter 2012 ,		5
44	Power balancing control of a multilevel converter using high-frequency multi-winding transformer 2012 ,		3
43	Novel adaptive power control of a Direct-drive PM wind generation system in a micro grid 2012 ,		6
42	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
41	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

40	Modeling and control strategy for cascade bi-directional DC/DC converter in Microgrid 2012 ,		1
39	A novel hybrid-clamped four-level converter 2012 ,		7
38	Voltage fluctuation suppression method of floating capacitors in a new modular multilevel converter 2011 ,		8
37	Control strategies of DC-bus voltage in islanded operation of microgrid 2011 ,		14
36	A neutral-point potential balancing algorithm for five-level ANPC converters 2011 ,		6
35	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
34	Composite converter of hybrid storage in distributed renewable energy generation system 2011 ,		6
33	A new adaptive flux weakening method of PMSM 2011 ,		2
32	A control method for grid-friendly photovoltaic systems with hybrid energy storage units 2011 ,		16
31	PI type dynamic decoupling control scheme for PMSM high speed operation 2010 ,		16
30	Control of variable pitch, variable speed wind turbine in weak grid systems 2010 ,		7
29	Energy management of hybrid DC and AC bus linked microgrid 2010 ,		19
28	Voltage balancing control and experiments of a novel modular multilevel converter 2010 ,		16
27	A transformerless modular permanent magnet wind generator system with minimum generator coils 2010 ,		7
26	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
25	Sensor-less Drive of Induction Motor Based on A New Hybrid Cascaded Multilevel Inverter 2009 ,		2
24	PIR-based control for three-phase PWM rectifier with H-bridge load 2009 ,		1
23	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

22	Low Voltage Ride-Through of high power DFIG wind turbine using three-level NPC converters 2009,	1
21	A new transformerless cascaded multilevel converter topology 2009,	6
20	Improved Crowbar Control Strategy of DFIG Based Wind Turbines for Grid Fault Ride-Through 2009,	39
19	High-Performance Control Strategies and Applications of a New Hybrid Cascaded Multilevel Inverter 2008,	4
18	A novel position sensor-less control scheme of Doubly Fed Induction Wind Generator based on MRAS method 2008,	5
17	Two Signal Injection Methods for Sensorless Control of PMSM at Very Low Speeds 2007,	6
16	High Performance PMSM Sensorless Control with Load Torque Observation 2007,	8
15	Sensorless control of PMSM based on extended kalman filter 2007,	18
14	Investigation of Control Method for a New Hybrid Cascaded Multilevel Inverter 2007,	3
13	PWM rectifier in power cell of cascaded H-bridge multilevel converter 2007,	4
12	A novel control strategy for brushless DC motor drive with low torque ripples 2005,	2
11	A speed fluctuation reduction method for sensorless PMSM-compressor system 2005,	4
10	A novel control algorithm for cascade shunt active power filter	7
9	Predictive direct torque control strategies of induction motor based on area voltage vectors table	3
8	Predictive Control of Torque and Flux of Induction Motor Drives	1
7	Identification of rotor resistance for induction motor with injection of torque disturbance	1
6	A three-level speed sensor-less DTC drive of induction motor based on a full-order flux observer	5
5	Applications of induction motor drive based on DTC in railway traction	4

- | | | |
|---|--|---|
| 4 | A novel implementation of SVPWM algorithm and its application to three-phase power converter | 2 |
| 3 | Speed sensorless DTC and parameter estimation of induction motor based on a full-order MRAS method | 3 |
| 2 | A direct torque control of induction motor based on three-level NPC inverter | 6 |
| 1 | Virtual vectors based predictive control of torque and flux of induction motor and speed sensorless drives | 3 |