

Zhengming Zhao

List of Publications by Year in descending order

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239
papers

5,614
citations

117625

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docs citations

239
times ranked

5098
citing authors

#	ARTICLE	IF	CITATIONS
1	Grid-connected photovoltaic power systems: Technical and potential problems—A review. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 112-129.	16.4	803
2	MPPT techniques for photovoltaic applications. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 25, 793-813.	16.4	367
3	A review of wireless power transfer for electric vehicles: Prospects to enhance sustainable mobility. <i>Applied Energy</i> , 2016, 179, 413-425.	10.1	336
4	An Improved Direct Torque Control for Three-Level Inverter-Fed Induction Motor Sensorless Drive. <i>IEEE Transactions on Power Electronics</i> , 2012, 27, 1502-1513.	7.9	238
5	Frequency Decrease Analysis of Resonant Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , 2014, 29, 1058-1063.	7.9	182
6	Selective Wireless Power Transfer to Multiple Loads Using Receivers of Different Resonant Frequencies. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 6001-6005.	7.9	162
7	Analysis of the Double-Layer Printed Spiral Coil for Wireless Power Transfer. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2013, 1, 114-121.	5.4	128
8	A Hybrid PWM Applied to High-Power Three-Level Inverter-Fed Induction-Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2011, 58, 3409-3420.	7.9	122
9	The Impact of Nonlinear Junction Capacitance on Switching Transient and Its Modeling for SiC MOSFET. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 333-338.	3.0	121
10	Frequency-Splitting Analysis of Four-Coil Resonant Wireless Power Transfer. <i>IEEE Transactions on Industry Applications</i> , 2014, 50, 2436-2445.	4.9	119
11	Fault-Tolerant Control of MMC With Hot Reserved Submodules Based on Carrier Phase Shift Modulation. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 6778-6791.	7.9	102
12	Frequency Splitting Analysis of Two-Coil Resonant Wireless Power Transfer. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014, 13, 400-402.	4.0	98
13	Hybrid Selective Harmonic Elimination PWM for Common-Mode Voltage Reduction in Three-Level Neutral-Point-Clamped Inverters for Variable Speed Induction Drives. <i>IEEE Transactions on Power Electronics</i> , 2012, 27, 1152-1158.	7.9	97
14	Series-Connected HV-IGBTs Using Active Voltage Balancing Control With Status Feedback Circuit. <i>IEEE Transactions on Power Electronics</i> , 2015, 30, 4165-4174.	7.9	95
15	Transmission Loss Optimization-Based Optimal Power Flow Strategy by Hierarchical Control for DC Microgrids. <i>IEEE Transactions on Power Electronics</i> , 2017, 32, 1952-1963.	7.9	89
16	Current Stress Minimization of Dual-Active-Bridge DC—DC Converter Within the Whole Operating Range. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019, 7, 129-142.	5.4	86
17	Analytical Methodology for Loss Calculation of SiC MOSFETs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019, 7, 71-83.	5.4	77
18	Wireless Power Transfer to Multiple Loads Over Various Distances Using Relay Resonators. <i>IEEE Microwave and Wireless Components Letters</i> , 2015, 25, 337-339.	3.2	74

#	ARTICLE	IF	CITATIONS
19	Closed-Form Oriented Modeling and Analysis of Wireless Power Transfer System With Constant-Voltage Source and Load. IEEE Transactions on Power Electronics, 2016, 31, 3472-3481.	7.9	70
20	Energy Feed-Forward and Direct Feed-Forward Control for Solid-State Transformer. IEEE Transactions on Power Electronics, 2015, 30, 4042-4047.	7.9	68
21	An Improved Phase-Shifted Carrier Modulation Scheme for a Hybrid Modular Multilevel Converter. IEEE Transactions on Power Electronics, 2017, 32, 81-97.	7.9	62
22	Active Clamping Circuit With Status Feedback for Series-Connected HV-IGBTs. IEEE Transactions on Industry Applications, 2014, 50, 3579-3590.	4.9	60
23	Transmitter-Side Control of Both the CC and CV Modes for the Wireless EV Charging System With the Weak Communication. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 955-965.	5.4	55
24	Direct Power Control Based on Natural Switching Surface for Three-Phase PWM Rectifiers. IEEE Transactions on Power Electronics, 2015, 30, 2918-2922.	7.9	54
25	A comparative study of Luenberger observer, sliding mode observer and extended Kalman filter for sensorless vector control of induction motor drives. , 2009, , .		50
26	TABLEâ€‘BASED direct power control for threeâ€‘level neutral pointâ€‘clamped pulseâ€‘width modulated rectifier. IET Power Electronics, 2013, 6, 1555-1562.	2.1	47
27	Employing Load Coils for Multiple Loads of Resonant Wireless Power Transfer. IEEE Transactions on Power Electronics, 2015, 30, 6174-6181.	7.9	46
28	An Improved DC-Link Voltage Fast Control Scheme for a PWM Rectifier-Inverter System. IEEE Transactions on Industry Applications, 2014, 50, 462-473.	4.9	45
29	Coupled Inductors in Interleaved Multiphase Three-Level DCâ€‘DC Converter for High-Power Applications. IEEE Transactions on Power Electronics, 2016, 31, 120-134.	7.9	45
30	Piecewise Analytical Transient Model for Power Switching Device Commutation Unit. IEEE Transactions on Power Electronics, 2019, 34, 5720-5736.	7.9	44
31	A dynamic on-line parameter identification and full-scale system experimental verification for large synchronous machines. IEEE Transactions on Energy Conversion, 1995, 10, 392-398.	5.2	42
32	A Non-Segmented PSpice Model of SiC mosfet With Temperature-Dependent Parameters. IEEE Transactions on Power Electronics, 2019, 34, 4603-4612.	7.9	41
33	Deadbeat Current Controller for Bidirectional Dual-Active-Bridge Converter Using an Enhanced SPS Modulation Method. IEEE Transactions on Power Electronics, 2021, 36, 1274-1279.	7.9	39
34	Life cycle assessment and tempo-spatial optimization of deploying dynamic wireless charging technology for electric cars. Transportation Research Part C: Emerging Technologies, 2019, 100, 53-67.	7.6	38
35	Impact of inverter configuration on energy cost of grid-connected photovoltaic systems. Renewable Energy, 2012, 41, 328-335.	8.9	37
36	A Bidirectional Wireless Power Transfer System Control Strategy Independent of Real-Time Wireless Communication. IEEE Transactions on Industry Applications, 2020, 56, 1587-1598.	4.9	37

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37	A novel controller of a battery-supercapacitor hybrid energy storage system for domestic applications. Energy and Buildings, 2017, 141, 167-174.	6.7	36
38	Quantitative Analysis of System Efficiency and Output Power of Four-Coil Resonant Wireless Power Transfer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2015, 3, 184-190.	5.4	34
39	Design-Oriented Comprehensive Time-Domain Model for <i>CLLC</i> Class Isolated Bidirectional DC-DC Converter for Various Operation Modes. IEEE Transactions on Power Electronics, 2020, 35, 3491-3505.	7.9	34
40	HVIGBT Physical Model Analysis During Transient. IEEE Transactions on Power Electronics, 2013, 28, 2616-2624.	7.9	33
41	An improved virtual resistance damping method for grid-connected inverters with LCL filters. , 2011, , .		32
42	Comprehensive comparison and analysis of non-inverting buck boost and conventional buck boost converters. Journal of Engineering, 2019, 2019, 3030-3034.	1.1	31
43	Current sharing of IGBT modules in parallel with thermal imbalance. , 2010, , .		29
44	A Phase Synchronization Technique Based on Perturbation and Observation for Bidirectional Wireless Power Transfer System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1287-1297.	5.4	29
45	Design and Implementation of Four-Port Megawatt-Level High-Frequency-Bus Based Power Electronic Transformer. IEEE Transactions on Power Electronics, 2021, 36, 6429-6442.	7.9	29
46	An FPGA-Based Voltage Balancing Control for Multi-HV-IGBTs in Series Connection. IEEE Transactions on Industry Applications, 2018, 54, 4640-4649.	4.9	28
47	A Self-Regulating Gate Driver for High-Power IGBTs. IEEE Transactions on Power Electronics, 2021, 36, 3450-3461.	7.9	27
48	New Hybrid Damping Strategy for Grid-Connected Photovoltaic Inverter With LCL Filter. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-8.	1.7	26
49	Discrete State Event-Driven Framework With a Flexible Adaptive Algorithm for Simulation of Power Electronic Systems. IEEE Transactions on Power Electronics, 2019, 34, 11692-11705.	7.9	26
50	A DC-link voltage control scheme for single-phase grid-connected PV inverters. , 2011, , .		25
51	Frequency splitting analysis of magnetically-coupled resonant wireless power transfer. , 2013, , .		25
52	Physical Model Analysis During Transient for Series-Connected HVIGBTs. IEEE Transactions on Power Electronics, 2014, 29, 5727-5737.	7.9	25
53	A Novel Soft-Switching Boost Converter With Magnetically Coupled Resonant Snubber. IEEE Transactions on Power Electronics, 2014, 29, 5680-5687.	7.9	22
54	Load matching analysis of magnetically-coupled resonant wireless power transfer. , 2013, , .		20

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55	Transient Behaviors of Multiscale Megawatt Power Electronics Systems—Part I: Characteristics and Analysis. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 7-17.	5.4	20
56	Communication-Independent Power Balance Control for Solid State Transformer Interfaced Multiple Power Conversion Systems. IEEE Transactions on Power Electronics, 2020, 35, 4256-4271.	7.9	20
57	Maximum efficiency point tracking of the wireless power transfer system for the battery charging in electric vehicles. , 2015, , .		19
58	A Nonlinear Control Method for Bumpless Mode Transition in Noninverting Buck—Boost Converter. IEEE Transactions on Power Electronics, 2021, 36, 2166-2178.	7.9	18
59	Analysis and Control of a Four-Port Megawatt-Level High-Frequency-Bus-Based Power Electronic Transformer. IEEE Transactions on Power Electronics, 2021, 36, 13080-13095.	7.9	18
60	Speed sensorless stator flux oriented control of three-level inverter-fed induction motor drive based on fuzzy logic and sliding mode control. , 2010, , .		17
61	Overview on reliability of modular multilevel cascade converters. Chinese Journal of Electrical Engineering, 2015, 1, 37-49.	3.4	17
62	A comprehensive study on the gate-loop stability of the SiC MOSFET. , 2017, , .		17
63	Investigation and analysis of the influence of magnetic wedges on high voltage motors performance. , 2008, , .		16
64	Parameter design of voltage balancing circuit for series connected HV-IGBTs. , 2012, , .		16
65	The optimization of snubbers for IGCT-based voltage source inverters. , 0, , .		15
66	Synergetic Control of High-Frequency-Link Based Multi-Port Solid State Transformer. , 2018, , .		15
67	An Energy Balance Active Disturbance Rejection Control for Improving Converter Stability While Maintaining Fast Dynamic Performance. IEEE Transactions on Power Electronics, 2020, 35, 11304-11309.	7.9	15
68	A Semiphysical Semibehavioral Analytical Model for Switching Transient Process of SiC MOSFET Module. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2258-2270.	5.4	15
69	Impedance Shaping Control Strategy for Wireless Power Transfer System Based on Dynamic Small-Signal Analysis. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1354-1365.	5.4	14
70	A Sliding Mode Observer for PMSM speed and rotor position considering saliency. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	13
71	Discrete State Event-Driven Simulation Approach With a State-Variable-Interfaced Decoupling Strategy for Large-Scale Power Electronics Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 11673-11683.	7.9	13
72	Transient of power pulse and its sequence in power electronics. Science in China Series D: Earth Sciences, 2007, 50, 351-360.	0.9	12

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73	Design, simulation and analysis of the low stray inductance bus bar for voltage source inverters. , 2011, , .		12
74	Parameter Design of a Three-Level Converter Based on Series-Connected HV-IGBTs. IEEE Transactions on Industry Applications, 2014, 50, 3943-3954.	4.9	12
75	Design and implementation of AC-DC hybrid multi-port energy router for power distribution networks. , 2015, , .		12
76	Fault detection and tolerant control of open-circuit failure in MMC with full-bridge sub-modules. , 2016, , .		12
77	A Novel Coordinated Control Strategy for Energy Storage System in DC Microgrid With Weak Communication. IEEE Transactions on Industry Applications, 2020, 56, 800-814.	4.9	12
78	On-line estimation of variable parameters of synchronous machines using a novel adaptive algorithm. Estimation and experimental verification. IEEE Transactions on Energy Conversion, 1997, 12, 200-210.	5.2	11
79	A predictive DC voltage control scheme for back-to-back converters based on energy balance modeling. , 2011, , .		11
80	Trajectory-Prediction-Based Fast Bidirectional Power Transient Control for Series Resonant Dual-Active-Bridge Converter. , 2018, , .		11
81	Startup Strategy With Constant Peak Transformer Current for Solid-State Transformer in Distribution Network. IEEE Transactions on Industry Applications, 2019, 55, 1740-1751.	4.9	11
82	Designing an M-Shape Magnetic Coupler for the Wireless Charging System in Railway Applications. IEEE Transactions on Power Electronics, 2022, 37, 1059-1073.	7.9	11
83	Optimization Design of High-Voltage-Balancing Circuit Based on the Functional Model of IGCT. IEEE Transactions on Industrial Electronics, 2007, 54, 3012-3021.	7.9	10
84	Predictive DC voltage control for three-phase grid-connected PV inverters based on energy balance modeling. , 2010, , .		10
85	Reducing the impact of source internal resistance by source coil in resonant wireless power transfer. , 2014, , .		10
86	Precise control law of MMC and its application in reducing capacitor voltage ripple by injecting circulating current. , 2015, , .		10
87	Combined DC voltage control scheme for three-port energy router based on instantaneous energy balance. , 2016, , .		10
88	Active Selection of Current Commutation Loop for Hybrid Three-Level Dual Active Bridge DC-DC Converter with TPS Control. , 2019, , .		10
89	A Breakthrough in Design Verification of Megawatt Power Electronic Systems. IEEE Power Electronics Magazine, 2020, 7, 36-43.	0.7	10
90	An Automated Semi-“symbolic State Equation Generation Method for Simulation of Power Electronic Systems. IEEE Transactions on Power Electronics, 2021, 36, 3946-3956.	7.9	10

#	ARTICLE	IF	CITATIONS
91	Line loss optimization based OPF strategy by hierarchical control for DC microgrid. , 2015, , .		9
92	Modeling and analysis of wireless power transfer system with constant-voltage source and constant-current load. , 2017, , .		9
93	Analysis of the Steady-State Current Ripple in Multileg Class-D Power Amplifiers Under Inductance Mismatches. IEEE Transactions on Power Electronics, 2019, 34, 3646-3657.	7.9	9
94	Performance Evaluation of Switch Devices Equipped in High-Power Three-Level Inverters. IEEE Transactions on Industrial Electronics, 2007, 54, 2993-3000.	7.9	8
95	Modeling of busbars in high power neutral point clamped three-level inverters. Tsinghua Science and Technology, 2008, 13, 91-97.	6.1	8
96	A new power circuit topology for energy router. , 2014, , .		8
97	An accurate stray loss calculation method of squirrel-cage induction motors for efficiency optimization. , 2015, , .		8
98	A selection method of mutual inductance identification models based on sensitivity analysis for wireless electric vehicles charging. , 2016, , .		8
99	Transient Behaviors of Multiscale Megawatt Power Electronics Systems—Part II: Design Techniques and Practical Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 18-29.	5.4	8
100	Voltage Oscillation Suppression for the High-Frequency Bus in Modular-Multiactive-Bridge Converter. IEEE Transactions on Power Electronics, 2021, 36, 9737-9742.	7.9	8
101	Modeling and Analysis of Hybrid Dual Active Bridge Converter to Optimize Efficiency Over Whole Operating Range. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 432-441.	5.4	8
102	Speed sensorless direct torque control of 3-level inverter-fed induction motor drive based on optimized switching table. , 2009, , .		7
103	Sensorless 3-level inverter-fed induction motor drive based on indirect torque control. , 2009, , .		7
104	Carrier based implementation of reduced common mode voltage PWM strategies. , 2013, , .		7
105	Laminated busbar design and stray parameter analysis of three-level converter based on HVIGBT series connection. , 2015, , .		7
106	A comparative study of load characteristics of resonance types in wireless transmission systems. , 2016, , .		7
107	Active voltage balancing control for 10kV three-level converter using series-connected HV-IGBTs. , 2016, , .		7
108	Instantaneous energy balancing in three-level neutral point clamped converters. , 2008, , .		6

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109	Mathematical Models of the System-Level Safe Operational Areas of Power Electronic Converters in Plug-In Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2011, 60, 4288-4298.	6.3	6
110	Study on DC busbar structure considering stray inductance for the back-to-back IGBT-based converter. , 2013, , .		6
111	Improvement for planar bus bars of high power inverters based on segmented evaluation of stray parameters. , 2013, , .		6
112	A utility and accurate electrical loss model and application for induction motors utilizing 2-D finite element analysis. , 2015, , .		6
113	An experimental method for extracting stray inductance of bus bars without high bandwidth current measurement. , 2017, , .		6
114	A Temperature-dependent PSpice Short-circuit Model of SiC MOSFET. , 2019, , .		6
115	Discrete State Event-Driven Framework for Simulation of Switching Transients in Power Electronic Systems. , 2019, , .		6
116	Topology and control strategy on transformerless wireless power station for future electric transportation systems. International Transactions on Electrical Energy Systems, 2021, 31, e13019.	1.9	6
117	A discrete state event driven simulation based losses analysis for multi-terminal megawatt power electronic transformer. CES Transactions on Electrical Machines and Systems, 2020, 4, 275-284.	3.5	6
118	On-line estimation of variable parameters of synchronous machines using a novel adaptive algorithm-principles and procedures. IEEE Transactions on Energy Conversion, 1997, 12, 193-199.	5.2	5
119	Comparisons of PWM and one-cycle control for digital power amplifiers. , 0, , .		5
120	An Enhanced DC Preexcitation With Effective Flux-Linkage Control for the High-Power Induction Motor Drive System. IEEE Transactions on Power Electronics, 2011, 26, 2375-2380.	7.9	5
121	Research on HVIGBT transient mixture model and parameter extraction method. , 2014, , .		5
122	Design and implementation of high efficient two-stage three-phase/level isolated PV converter. , 2015, , .		5
123	Design analysis of direct-driven PMSG in wind turbine application. , 2016, , .		5
124	Comparison of two bidirectional wireless power transfer control methods. , 2016, , .		5
125	Analysis of transmitter-side control methods in wireless EV charging systems. Science China Technological Sciences, 2018, 61, 1492-1501.	4.0	5
126	Analysis and Suppressing Method of Magnetizing Bias on High Frequency Transformer in Electric Energy Router. , 2018, , .		5

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127	Discrete State Event-Driven Approach for High-Power Converter Simulations. , 2019, , .		5
128	High-Frequency Current Predictive Control Method for Multiactive-Bridge Converter. IEEE Transactions on Power Electronics, 2022, 37, 10144-10148.	7.9	5
129	Analysis of cutting-edge techniques in the high voltage and high power adjustable speed drive systems. Science in China Series D: Earth Sciences, 2009, 52, 442-449.	0.9	4
130	Modeling and analysis of MW-level grid-connected PV plant. , 2011, , .		4
131	Research on impacts of different parameters on transient power loss of IGBT. , 2013, , .		4
132	Modularized high frequency high power 3-level neutral point clamped PEBB cell for renewable energy system. , 2014, , .		4
133	Experimental research on stray inductance extraction of planar bus bars based on HVIGBT dynamic characteristics. , 2014, , .		4
134	Quasi-uniform magnetic field generated by multiple transmitters of magnetically-coupled resonant wireless power transfer. , 2015, , .		4
135	High efficient common-mode current suppression SVM method for three-phase three-level transformer-less photovoltaic inverters. , 2015, , .		4
136	An improved phase-shifted carrier-based modulation and loss distribution analysis for MMC using full bridge sub-modules. , 2016, , .		4
137	Startup strategy with constant peak transformer current for hybrid multilevel energy router. , 2017, , .		4
138	A novel simulation method for power electronics: discrete state event driven method. CES Transactions on Electrical Machines and Systems, 2017, 1, 273-282.	3.5	4
139	A Novel Digital Active Gate Driver For High-Power IGBT To Reduce Switching Losses And Stresses. , 2019, , .		4
140	Self-Correction and Dead-Beat Current Control Strategy for Digital Programmed Boost Converter. , 2019, , .		4
141	An Event-Driven Real-Time Simulation for Power Electronics Systems Based on Discrete Hybrid Time-Step Algorithm. IEEE Transactions on Industrial Electronics, 2023, 70, 4809-4819.	7.9	4
142	Design and Experiments of Two Glued Axially-Laminated Synchronous Reluctance Permanent Magnetic Motors. , 0, , .		3
143	Dynamic Equivalent Circuit Design in Three-level High Voltage Inverters Based On Functional Model of IGCT. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	3
144	A novel direct power control strategy based on energy interface concept for three-level PWM rectifier. , 2009, , .		3

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145	Design and implement of an active damping LCL-filter for three-level voltage source PWM rectifier. , 2011, , .		3
146	Design of voltage balancing control circuit for series connected HV-IGBTs. , 2013, , .		3
147	Transient power balance based control for buck converters. , 2014, , .		3
148	Behavior model for series connected high voltage IGBTs. , 2014, , .		3
149	Coupled inductors in interleaved multiphase three-level DC-DC converter for high power energy storage applications. , 2014, , .		3
150	Physical model with parameter extraction method for Fuji Electric 1.7kV IGBT. , 2015, , .		3
151	Increasing power level of resonant wireless power transfer with relay resonators by considering resonator current amplitudes. , 2015, , .		3
152	A Step-Variable Soft Start Control Method Applied to Boost Type PFC Rectifier. , 2016, , .		3
153	Fault tolerant control of MMC with redundant submodules based on carrier phase shift modulation. , 2016, , .		3
154	Simplified model of multi-port energy router in 10kV distribution network. , 2017, , .		3
155	Finite-state-machine model of boundary control for dual-active-bridge converter. , 2017, , .		3
156	An improved submodule unified pulse modulation scheme for a hybrid modular multilevel converter. CES Transactions on Electrical Machines and Systems, 2017, 1, 322-333.	3.5	3
157	A Coordinate and Distributed Control Scheme for Multilevel and Multi-Stage Medium Voltage Solid State Transformer. , 2018, , .		3
158	Comparative Evaluation of Isolated Bidirectional DC/DC Converter in High-Power High-Frequency Occasions. , 2018, , .		3
159	A Bidirectional Wireless Power Transfer System Control Strategy Independent of Real-Time Wireless Communication. , 2018, , .		3
160	Switching Transient Simulation and System Efficiency Evaluation of Megawatt Power Electronics Converter With Discrete State Event-Driven Approach. IEEE Transactions on Industrial Electronics, 2022, 69, 2180-2190.	7.9	3
161	A Numerical Convex Lens for the State-Discretized Modeling and Simulation of Megawatt Power Electronics Systems as Generalized Hybrid Systems. Engineering, 2021, 7, 1766-1777.	6.7	3
162	Tradeoff between the Output Voltage Deviation and Recovery Time of Boost Converters. Journal of Power Electronics, 2015, 15, 338-345.	1.5	3

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163	Vector control for a twelve-phase synchronous motor. , 2007, , .		3
164	Chirp Signal Injection Method and Real-Time Impedance Characteristic Measurement of Electric Energy Router. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 5564-5577.	5.4	3
165	Transient DC Bias and Universal Dynamic Modulation of Multiactive Bridge Converters. IEEE Transactions on Power Electronics, 2022, 37, 11516-11522.	7.9	3
166	Snubberless switching-off characteristics of IGCTs equipped in high power three-level neutral point clamped converters. , 2005, , .		2
167	A novel fiber-CAN-based real time communication system for MV-ASD systems. , 2005, , .		2
168	Analysis and Experimental Study of Slot Effect in Synchronous Reluctance Permanent Magnet Motors. , 2006, , .		2
169	Approaches to enhance discrete control algorithms serving for motor drive system. , 2010, , .		2
170	DC pre-excitation application in three-phase induction motor drive system. , 2010, , .		2
171	Modeling and analyzing to the forward PV cells for large-scale PV array. , 2011, , .		2
172	Optimal design of the back-to-back IGBT-based converter with the concept of systematic safe operating area. , 2011, , .		2
173	Structure design and analysis of high voltage IGBTs series connection experimental platform. , 2012, , .		2
174	Series-connected HV-IGBTs using active voltage control with status feedback circuit. , 2014, , .		2
175	Design and implementation of three-phase two-bridge advanced neutral point clamped three-level photovoltaic inverter. , 2014, , .		2
176	RF energy harvesting with broadband antenna. , 2014, , .		2
177	Decoupled direct power control based on improved sector selection algorithm for three-level grid-connected inverter. , 2014, , .		2
178	Analysis of the passive transient damping branch for suppressing the current spike and oscillation. , 2015, , .		2
179	An energy-based multi-loops control strategy for modular multilevel converter. , 2015, , .		2
180	Comparative study of current control methods for a 5kW wireless EV charging system. , 2016, , .		2

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181	Active voltage balancing control for multi HV-IGBTs in series connection. , 2016, , .		2
182	Load characteristics of wireless power transfer system with different resonant types and resonator numbers. AIP Advances, 2017, 7, 056601.	1.3	2
183	PM material analysis of permanent magnet synchronous generator in wind turbines. , 2017, , .		2
184	Current Stress Optimization and Efficiency Increase of DAB with Triple-Phase-Shift Control Based on 2-Dimensional Ergodicity Method. , 2018, , .		2
185	Steady-state model of multi-port electric energy router and power flow analysis method of AC/DC hybrid system considering control strategies. Journal of Engineering, 2019, 2019, 2794-2799.	1.1	2
186	Motor-Oriented Discrete State Event-Driven Method for Multitime-Scale Simulation of Power Traction Systems. IEEE Transactions on Transportation Electrification, 2021, 7, 1652-1661.	7.8	2
187	Time-Domain and Frequency-Domain Analysis of SiC MOSFET Switching Transients Considering Transmission of Control, Drive, and Power Pulses. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6441-6452.	5.4	2
188	Backward Discrete State Event-Driven Approach for Simulation of Stiff Power Electronic Systems. IEEE Access, 2021, 9, 28573-28581.	4.2	2
189	Transient Performance Improvement in the Boundary Control of Boost Converters using Synthetic Optimized Trajectory. Journal of Power Electronics, 2016, 16, 584-597.	1.5	2
190	DSP-based fully digital current control for power amplifiers. , 0, , .		1
191	High performance position control system based on SR-PM motor. Tsinghua Science and Technology, 2007, 12, 614-619.	6.1	1
192	A novel direct power control strategy with wide input voltage range for three-level PWM rectifier. , 2009, , .		1
193	Elimination of high temperature and high humidity effects on three-level high power PWM power electronics converter. , 2011, , .		1
194	HVIGBT physical model analysis during transient. , 2011, , .		1
195	Design and implementation of photovoltaic lighting system with high luminous efficacy LEDs. , 2012, , .		1
196	Uncoupled direct power control based on improved sector selection algorithm for three-level PWM rectifier. , 2013, , .		1
197	A damping injection control of isolated bidirectional DC-DC converters based on the load parameter identification. , 2014, , .		1
198	Simulation analysis of active clamping circuit with status feedback for HV-IGBTs. , 2014, , .		1

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199	Modeling of SiC MOSFET in Matlab/Simulink. , 2014, , .		1
200	Dual-timescale control for power electronic zigzag transformer. CES Transactions on Electrical Machines and Systems, 2017, 1, 315-321.	3.5	1
201	Power losses of Si/SiC semiconductors in medium voltage energy router sub-modules with hybrid topology. , 2017, , .		1
202	Research on Rotor Flux Observer for Extended Complex Kalman Filter of Asynchronous Motor. Lecture Notes in Electrical Engineering, 2018, , 303-315.	0.4	1
203	Phase Synchronization of Control Signals Based on Perturbation and Observation for Bidirectional Wireless Power Transfer System. , 2018, , .		1
204	A Novel Hierarchical Control Scheme for Solid-State Transformer Interfaced PV and Storage System. , 2018, , .		1
205	An Analytical Methodology to Evaluate the THD of High Power Class D Amplifiers. , 2018, , .		1
206	Design of the Neutral Line Inductor for Three-phase Four-leg Inverters. , 2019, , .		1
207	Dynamic Modeling and Analysis of Multi-receiver Wireless Power Transfer System. , 2019, , .		1
208	Integral Control of Megawatt Power Electronic Systems as Generalized Hybrid Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4254-4274.	5.4	1
209	Safe Operating Area of High Power Three-Level Neutral Point Clamped Voltage Source Inverters Equipped with IGCTs. , 2007, , .		1
210	A Control Method for Chirp Signal Injecting of DCDC Voltage Source Converter. , 2020, , .		1
211	Back-to-Back H-Bridge Cell Based Modular Solid State Transformer with High-Frequency Link. , 2020, , .		1
212	Modeling, simulation, and analysis of stator windings of induction machines in high frequencies. , 0, , .		0
213	Modelling of high voltage IGBT with easy parameter extraction. , 2012, , .		0
214	An improved DC-link voltage fast control scheme for a PWM rectifier-inverter system. , 2012, , .		0
215	A novel power management strategy for single phase storage-equipped grid-connected PV generation system. , 2013, , .		0
216	Implementation of a novel source current detection control strategy for LCL filter-based shunt active power filter. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
217	Safe stop-pulsing strategy for IGCT-based three-level neutral point clamped inverters. , 2013, , .		0
218	Analysis of structure and parameters in wireless power transmission system with consideration of losses in source. , 2013, , .		0
219	Series connected photovoltaic power inverter. , 2013, , .		0
220	Impact of reduced common mode voltage PWM and common mode inductor on EMI characteristics of an inverter-driven motor. , 2014, , .		0
221	A combined PWM algorithm to eliminate spikes of common mode voltages. , 2014, , .		0
222	Impact of source internal resistance on efficiency of four resonant wireless power transfer topologies. , 2014, , .		0
223	Phase-shift control of isolated bidirectional DC-DC converters for unidirectional power flow. , 2014, , .		0
224	Numerical studies on dual-band electromagnetic energy harvesting with double-ring split-ring resonators. , 2015, , .		0
225	Iron loss evaluation and comparison in application of reduced common mode voltage PWM methods. , 2015, , .		0
226	Energy-balance based prediction for boost converters. , 2016, , .		0
227	Application research of passive-network-based high power factor rectifier in variable frequency avionics system. , 2016, , .		0
228	Energy balanced design and control for converters with natural trajectory tracking. , 2017, , .		0
229	Guest Editorial: Special Section on Transient Behaviors of Multi-Timescale Megawatt Power Electronics Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 4-6.	5.4	0
230	Study on DC-Voltage Rising of Blocked Port in High-Frequency-Link Converters. , 2020, , .		0
231	Routing strategy for <sc>DC</sc> power grid with electric power routers. International Transactions on Electrical Energy Systems, 2021, 31, .	1.9	0
232	A Self-Regulating Method for IGBT Turn-Off Peak Voltage Control With Turn-Off Characteristics Improvement. IEEE Access, 2021, 9, 122207-122215.	4.2	0
233	Discrete-State Event-Driven Numerical Prototyping of Megawatt Solid-State Transformers and AC/DC Hybrid Microgrids. IEEE Access, 2021, 9, 108329-108339.	4.2	0
234	Event-Driven Approach With Time-Scale Hierarchical Automaton for Switching Transient Simulation of SiC-Based High-Frequency Converter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, , 1-14.	5.4	0

#	ARTICLE	IF	CITATIONS
235	Modelling and Analysis of Radial Flux Surface Mounted Direct-Driven PMSG in Small Scale Wind Turbine. <i>Advances in Science, Technology and Engineering Systems</i> , 2017, 2, 94-99.	0.5	0
236	A Comprehensive Design-Oriented Time-Domain Model for Isolated Bidirectional DC-DC Converter Considering Dead-Time Effect. , 2020, , .		0
237	Hierarchical Control of Electric Energy Router System Integrated with PV and Energy Storage. , 2020, , .		0
238	An Advanced Self-Regulating Gate Driver for IGBTs. , 2020, , .		0
239	Impedance Shaping Method to Stabilize the LCL-S Compensated Wireless Power Transfer System. , 2020, , .		0