

# Zhengming Zhao

## List of Publications by Year in Descending Order

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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.

170  
papers

3,607  
citations

29  
h-index

56  
g-index

239  
ext. papers

4,681  
ext. citations

5.3  
avg, IF

5.98  
L-index

#	Paper	IF	Citations
170	Designing an M-Shape Magnetic Coupler for the Wireless Charging System in Railway Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 1059-1073	7.2	5
169	Chirp Signal Injection Method and Real-time Impedance Characteristic Measurement of Electric Energy Router. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2022</b> , 1-1	5.6	1
168	High Frequency Current Predictive Control Method for Multi-Active-Bridge Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	
167	Transient DC Bias and Universal Dynamic Modulation of Multiactive Bridge Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	1
166	Impedance Shaping Control Strategy for Wireless Power Transfer System Based on Dynamic Small-Signal Analysis. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 68, 1354-1365	3.9	5
165	A Semiphysical Semibehavioral Analytical Model for Switching Transient Process of SiC MOSFET Module. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 2258-2270	5.6	7
164	Design and Implementation of Four-Port Megawatt-Level High-Frequency-Bus Based Power Electronic Transformer. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 6429-6442	7.2	16
163	An Automated Symbolic State Equation Generation Method for Simulation of Power Electronic Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 3946-3956	7.2	5
162	A Nonlinear Control Method for Bumpless Mode Transition in Noninverting BuckBoost Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 2166-2178	7.2	5
161	Deadbeat Current Controller for Bidirectional Dual-Active-Bridge Converter Using an Enhanced SPS Modulation Method. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 1274-1279	7.2	18
160	A Self-Regulating Gate Driver for High-Power IGBTs. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 3450-3461	7.2	7
159	A Self-Regulating Method for IGBT Turn-Off Peak Voltage Control With Turn-Off Characteristics Improvement. <i>IEEE Access</i> , <b>2021</b> , 9, 122207-122215	3.5	
158	Discrete-State Event-Driven Numerical Prototyping of Megawatt Solid-State Transformers and AC/DC Hybrid Microgrids. <i>IEEE Access</i> , <b>2021</b> , 9, 108329-108339	3.5	
157	Switching Transient Simulation and System Efficiency Evaluation of Megawatt Power Electronics Converter with Discrete State Event-Driven Approach. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
156	Integral Control of Megawatt Power Electronic Systems as Generalized Hybrid Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 1-1	5.6	1
155	Event-Driven Approach With Time-Scale Hierarchical Automaton for Switching Transient Simulation of SiC-Based High-Frequency Converter. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 1-14	3.9	
154	Topology and control strategy on transformerless wireless power station for future electric transportation systems. <i>International Transactions on Electrical Energy Systems</i> , <b>2021</b> , 31, e13019	2.2	2

153	A Numerical Convex Lens for the State-Discretized Modeling and Simulation of Megawatt Power Electronics Systems as Generalized Hybrid Systems. <i>Engineering</i> , <b>2021</b> , 7, 1766-1766	9.7	0
152	Motor-Oriented Discrete State Event-Driven Method for Multitime-Scale Simulation of Power Traction Systems. <i>IEEE Transactions on Transportation Electrification</i> , <b>2021</b> , 7, 1652-1661	7.6	0
151	Voltage Oscillation Suppression for the High-Frequency Bus in Modular-Multiactive-Bridge Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 9737-9742	7.2	4
150	Time-Domain and Frequency-Domain Analysis of SiC MOSFET Switching Transients Considering Transmission of Control, Drive, and Power Pulses. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 6441-6452	5.6	2
149	Analysis and Control of a Four-Port Megawatt-Level High-Frequency-Bus-Based Power Electronic Transformer. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 13080-13095	7.2	6
148	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 11673-11683	8.9	6
147	Backward Discrete State Event-Driven Approach for Simulation of Stiff Power Electronic Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 28573-28581	3.5	1
146	An Energy Balance Active Disturbance Rejection Control for Improving Converter Stability While Maintaining Fast Dynamic Performance. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 11304-11309	7.2	10
145	A Bidirectional Wireless Power Transfer System Control Strategy Independent of Real-Time Wireless Communication. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 1587-1598	4.3	18
144	A discrete state event driven simulation based losses analysis for multi-terminal megawatt power electronic transformer. <i>CES Transactions on Electrical Machines and Systems</i> , <b>2020</b> , 4, 275-284	2.3	2
143	Design-Oriented Comprehensive Time-Domain Model for CLLC Class Isolated Bidirectional DC-DC Converter for Various Operation Modes. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 3491-3505	7.2	12
142	A Phase Synchronization Technique Based on Perturbation and Observation for Bidirectional Wireless Power Transfer System. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 1287-1297	5.6	12
141	A Novel Coordinated Control Strategy for Energy Storage System in DC Microgrid With Weak Communication. <i>IEEE Transactions on Industry Applications</i> , <b>2020</b> , 56, 800-814	4.3	7
140	. <i>IEEE Power Electronics Magazine</i> , <b>2020</b> , 7, 36-43	1.5	4
139	Communication-Independent Power Balance Control for Solid State Transformer Interfaced Multiple Power Conversion Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 4256-4271	7.2	11
138	Transient Behaviors of Multiscale Megawatt Power Electronics Systems Part I: Characteristics and Analysis. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 7-17	5.6	17
137	Comprehensive comparison and analysis of non-inverting buck boost and conventional buck boost converters. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 3030-3034	0.7	12
136	Discrete State Event-Driven Framework With a Flexible Adaptive Algorithm for Simulation of Power Electronic Systems. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 11692-11705	7.2	13

135	Life cycle assessment and tempo-spatial optimization of deploying dynamic wireless charging technology for electric cars. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2019</b> , 100, 53-67	8.4	18
134	Analysis of the Steady-State Current Ripple in Multileg Class-D Power Amplifiers Under Inductance Mismatches. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 3646-3657	7.2	6
133	A Non-Segmented PSpice Model of SiC mosfet With Temperature-Dependent Parameters. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 4603-4612	7.2	27
132	Analytical Methodology for Loss Calculation of SiC MOSFETs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 71-83	5.6	38
131	Steady-state model of multi-port electric energy router and power flow analysis method of AC/DC hybrid system considering control strategies. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 2794-2799	0.7	1
130	Active Selection of Current Commutation Loop for Hybrid Three-Level Dual Active Bridge DC-DC Converter with TPS Control <b>2019</b> ,		3
129	A Temperature-dependent PSpice Short-circuit Model of SiC MOSFET <b>2019</b> ,		3
128	Transient Behaviors of Multiscale Megawatt Power Electronics Systems Part II: Design Techniques and Practical Applications. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 18-29	5.6	8
127	Discrete State Event-Driven Approach for High-Power Converter Simulations <b>2019</b> ,		4
126	A Novel Digital Active Gate Driver For High-Power IGBT To Reduce Switching Losses And Stresses <b>2019</b> ,		1
125	Discrete State Event-Driven Framework for Simulation of Switching Transients in Power Electronic Systems <b>2019</b> ,		3
124	Self-Correction and Dead-Beat Current Control Strategy for Digital Programmed Boost Converter <b>2019</b> ,		1
123	Piecewise Analytical Transient Model for Power Switching Device Commutation Unit. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 5720-5736	7.2	28
122	Startup Strategy With Constant Peak Transformer Current for Solid-State Transformer in Distribution Network. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 1740-1751	4.3	8
121	Current Stress Minimization of Dual-Active-Bridge DCDC Converter Within the Whole Operating Range. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 129-142	5.6	40
120	Analysis of transmitter-side control methods in wireless EV charging systems. <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 1492-1501	3.5	3
119	Research on Rotor Flux Observer for Extended Complex Kalman Filter of Asynchronous Motor. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 303-315	0.2	0
118	Transmitter-Side Control of Both the CC and CV Modes for the Wireless EV Charging System With the Weak Communication. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2018</b> , 6, 955-965	5.6	36

117	Analysis and Suppressing Method of Magnetizing Bias on High Frequency Transformer in Electric Energy Router <b>2018</b> ,		4
116	Synergetic Control of High-Frequency-Link Based Multi-Port Solid State Transformer <b>2018</b> ,		9
115	Trajectory-Prediction-Based Fast Bidirectional Power Transient Control for Series Resonant Dual-Active-Bridge Converter <b>2018</b> ,		3
114	Comparative Evaluation of Isolated Bidirectional DC/DC Converter in High-Power High-Frequency Occasions <b>2018</b> ,		2
113	An FPGA-Based Voltage Balancing Control for Multi-HV-IGBTs in Series Connection. <i>IEEE Transactions on Industry Applications</i> , <b>2018</b> , 54, 4640-4649	4-3	19
112	An Improved Phase-Shifted Carrier Modulation Scheme for a Hybrid Modular Multilevel Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 81-97	7-2	43
111	Transmission Loss Optimization-Based Optimal Power Flow Strategy by Hierarchical Control for DC Microgrids. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 1952-1963	7-2	60
110	Load characteristics of wireless power transfer system with different resonant types and resonator numbers. <i>AIP Advances</i> , <b>2017</b> , 7, 056601	1-5	2
109	A novel controller of a battery-supercapacitor hybrid energy storage system for domestic applications. <i>Energy and Buildings</i> , <b>2017</b> , 141, 167-174	7	21
108	Modeling and analysis of wireless power transfer system with constant-voltage source and constant-current load <b>2017</b> ,		5
107	A comprehensive study on the gate-loop stability of the SiC MOSFET <b>2017</b> ,		12
106	A novel simulation method for power electronics: discrete state event driven method. <i>CES Transactions on Electrical Machines and Systems</i> , <b>2017</b> , 1, 273-282	2-3	4
105	Fault-Tolerant Control of MMC With Hot Reserved Submodules Based on Carrier Phase Shift Modulation. <i>IEEE Transactions on Power Electronics</i> , <b>2017</b> , 32, 6778-6791	7-2	70
104	An experimental method for extracting stray inductance of bus bars without high bandwidth current measurement <b>2017</b> ,		4
103	PM material analysis of permanent magnet synchronous generator in wind turbines <b>2017</b> ,		2
102	Startup strategy with constant peak transformer current for hybrid multilevel energy router <b>2017</b> ,		2
101	Dual-timescale control for power electronic zigzag transformer. <i>CES Transactions on Electrical Machines and Systems</i> , <b>2017</b> , 1, 315-321	2-3	
100	An improved submodule unified pulse modulation scheme for a hybrid modular multilevel converter. <i>CES Transactions on Electrical Machines and Systems</i> , <b>2017</b> , 1, 322-333	2-3	3

99	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> , <b>2017</b> , 2, 94-99	0.3	
98	Closed-Form Oriented Modeling and Analysis of Wireless Power Transfer System With Constant-Voltage Source and Load. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 3472-3481	7.2	42
97	Coupled Inductors in Interleaved Multiphase Three-Level DCDC Converter for High-Power Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 120-134	7.2	26
96	A review of wireless power transfer for electric vehicles: Prospects to enhance sustainable mobility. <i>Applied Energy</i> , <b>2016</b> , 179, 413-425	10.7	222
95	An improved phase-shifted carrier-based modulation and loss distribution analysis for MMC using full bridge sub-modules <b>2016</b> ,		2
94	Fault tolerant control of MMC with redundant submodules based on carrier phase shift modulation <b>2016</b> ,		2
93	Active voltage balancing control for 10kV three-level converter using series-connected HV-IGBTs <b>2016</b> ,		6
92	Transient Performance Improvement in the Boundary Control of Boost Converters using Synthetic Optimized Trajectory. <i>Journal of Power Electronics</i> , <b>2016</b> , 16, 584-597	0.9	1
91	Combined DC voltage control scheme for three-port energy router based on instantaneous energy balance <b>2016</b> ,		5
90	A selection method of mutual inductance identification models based on sensitivity analysis for wireless electric vehicles charging <b>2016</b> ,		5
89	Fault detection and tolerant control of open-circuit failure in MMC with full-bridge sub-modules <b>2016</b> ,		6
88	A Step-Variable Soft Start Control Method Applied to Boost Type PFC Rectifier <b>2016</b> ,		2
87	<b>2016</b> ,		1
86	Energy Feed-Forward and Direct Feed-Forward Control for Solid-State Transformer. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 4042-4047	7.2	45
85	The Impact of Nonlinear Junction Capacitance on Switching Transient and Its Modeling for SiC MOSFET. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 333-338	2.9	84
84	Employing Load Coils for Multiple Loads of Resonant Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 6174-6181	7.2	33
83	Wireless Power Transfer to Multiple Loads Over Various Distances Using Relay Resonators. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2015</b> , 25, 337-339	2.6	53
82	Quantitative Analysis of System Efficiency and Output Power of Four-Coil Resonant Wireless Power Transfer. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2015</b> , 3, 184-190	5.6	27

81	Selective Wireless Power Transfer to Multiple Loads Using Receivers of Different Resonant Frequencies. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 6001-6005	7.2	107
80	Overview on reliability of modular multilevel cascade converters. <i>Chinese Journal of Electrical Engineering</i> , <b>2015</b> , 1, 37-49	4	10
79	Quasi-uniform magnetic field generated by multiple transmitters of magnetically-coupled resonant wireless power transfer <b>2015</b> ,		4
78	Physical model with parameter extraction method for Fuji Electric 1.7kV IGBT <b>2015</b> ,		3
77	Analysis of the passive transient damping branch for suppressing the current spike and oscillation <b>2015</b> ,		2
76	Precise control law of MMC and its application in reducing capacitor voltage ripple by injecting circulating current <b>2015</b> ,		6
75	Series-Connected HV-IGBTs Using Active Voltage Balancing Control With Status Feedback Circuit. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 4165-4174	7.2	66
74	Laminated busbar design and stray parameter analysis of three-level converter based on HVIGBT series connection <b>2015</b> ,		5
73	Increasing power level of resonant wireless power transfer with relay resonators by considering resonator current amplitudes <b>2015</b> ,		3
72	<b>2015</b> ,		4
71	High efficient common-mode current suppression SVM method for three-phase three-level transformer-less photovoltaic inverters <b>2015</b> ,		2
70	Design and implementation of high efficient two-stage three-phase/level isolated PV converter <b>2015</b> ,		3
69	Line loss optimization based OPF strategy by hierarchical control for DC microgrid <b>2015</b> ,		6
68	Maximum efficiency point tracking of the wireless power transfer system for the battery charging in electric vehicles <b>2015</b> ,		9
67	Design and implementation of AC-DC hybrid multi-port energy router for power distribution networks <b>2015</b> ,		6
66	An accurate stray loss calculation method of squirrel-cage induction motors for efficiency optimization <b>2015</b> ,		4
65	An energy-based multi-loops control strategy for modular multilevel converter <b>2015</b> ,		2
64	Direct Power Control Based on Natural Switching Surface for Three-Phase PWM Rectifiers. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 2918-2922	7.2	38



63	Tradeoff between the Output Voltage Deviation and Recovery Time of Boost Converters. <i>Journal of Power Electronics</i> , <b>2015</b> , 15, 338-345	0.9	2
62	A Novel Soft-Switching Boost Converter With Magnetically Coupled Resonant Snubber. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 5680-5687	7.2	16
61	An Improved DC-Link Voltage Fast Control Scheme for a PWM Rectifier-Inverter System. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 462-473	4.3	31
60	New Hybrid Damping Strategy for Grid-Connected Photovoltaic Inverter With LCL Filter. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 24, 1-8	1.8	12
59	Physical Model Analysis During Transient for Series-Connected HVIGBTs. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 5727-5737	7.2	19
58	Frequency-Splitting Analysis of Four-Coil Resonant Wireless Power Transfer. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 2436-2445	4.3	88
57	Active Clamping Circuit With Status Feedback for Series-Connected HV-IGBTs. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 3579-3590	4.3	38
56	Frequency Splitting Analysis of Two-Coil Resonant Wireless Power Transfer. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2014</b> , 13, 400-402	3.8	71
55	Modularized high frequency high power 3-level neutral point clamped PEBB cell for renewable energy system <b>2014</b> ,		2
54	Parameter Design of a Three-Level Converter Based on Series-Connected HV-IGBTs. <i>IEEE Transactions on Industry Applications</i> , <b>2014</b> , 50, 3943-3954	4.3	11
53	Experimental research on stray inductance extraction of planar bus bars based on HVIGBT dynamic characteristics <b>2014</b> ,		3
52	A new power circuit topology for energy router <b>2014</b> ,		6
51	Design and implementation of three-phase two-bridge advanced neutral point clamped three-level photovoltaic inverter <b>2014</b> ,		2
50	Behavior model for series connected high voltage IGBTs <b>2014</b> ,		1
49	Coupled inductors in interleaved multiphase three-level DC-DC converter for high power energy storage applications <b>2014</b> ,		2
48	Reducing the impact of source internal resistance by source coil in resonant wireless power transfer <b>2014</b> ,		5
47	Frequency Decrease Analysis of Resonant Wireless Power Transfer. <i>IEEE Transactions on Power Electronics</i> , <b>2014</b> , 29, 1058-1063	7.2	132
46	MPPT techniques for photovoltaic applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 25, 793-813	16.2	261



45	Analysis of the Double-Layer Printed Spiral Coil for Wireless Power Transfer. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2013</b> , 1, 114-121	5.6	91
44	Frequency splitting analysis of magnetically-coupled resonant wireless power transfer <b>2013</b> ,		19
43	Study on DC busbar structure considering stray inductance for the back-to-back IGBT-based converter <b>2013</b> ,		3
42	HVIGBT Physical Model Analysis During Transient. <i>IEEE Transactions on Power Electronics</i> , <b>2013</b> , 28, 2616-2624	2.2	26
41	Carrier based implementation of reduced common mode voltage PWM strategies <b>2013</b> ,		2
40	Improvement for planar bus bars of high power inverters based on segmented evaluation of stray parameters <b>2013</b> ,		5
39	TABLE-BASED direct power control for three-level neutral point-clamped pulse-width modulated rectifier. <i>IET Power Electronics</i> , <b>2013</b> , 6, 1555-1562	2.2	41
38	Load matching analysis of magnetically-coupled resonant wireless power transfer <b>2013</b> ,		11
37	Impact of inverter configuration on energy cost of grid-connected photovoltaic systems. <i>Renewable Energy</i> , <b>2012</b> , 41, 328-335	8.1	30
36	Parameter design of voltage balancing circuit for series connected HV-IGBTs <b>2012</b> ,		3
35	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> , <b>2012</b> , 27, 1152-1158	7.2	73
34	An Improved Direct Torque Control for Three-Level Inverter-Fed Induction Motor Sensorless Drive. <i>IEEE Transactions on Power Electronics</i> , <b>2012</b> , 27, 1502-1513	7.2	165
33	A DC-link voltage control scheme for single-phase grid-connected PV inverters <b>2011</b> ,		12
32	An Enhanced DC Preexcitation With Effective Flux-Linkage Control for the High-Power Induction Motor Drive System. <i>IEEE Transactions on Power Electronics</i> , <b>2011</b> , 26, 2375-2380	7.2	4
31	A Hybrid PWM Applied to High-Power Three-Level Inverter-Fed Induction-Motor Drives. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 3409-3420	8.9	86
30	Mathematical Models of the System-Level Safe Operational Areas of Power Electronic Converters in Plug-In Hybrid Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 4288-4298	6.8	3
29	An improved virtual resistance damping method for grid-connected inverters with LCL filters <b>2011</b> ,		27
28	A predictive DC voltage control scheme for back-to-back converters based on energy balance modeling <b>2011</b> ,		6

27	Design, simulation and analysis of the low stray inductance bus bar for voltage source inverters <b>2011,</b>		8
26	Optimal design of the back-to-back IGBT-based converter with the concept of systematic safe operating area <b>2011,</b>		1
25	HVIGBT physical model analysis during transient <b>2011,</b>		1
24	Approaches to enhance discrete control algorithms serving for motor drive system <b>2010,</b>		2
23	Predictive DC voltage control for three-phase grid-connected PV inverters based on energy balance modeling <b>2010,</b>		5
22	Current sharing of IGBT modules in parallel with thermal imbalance <b>2010,</b>		15
21	Speed sensorless stator flux oriented control of three-level inverter-fed induction motor drive based on fuzzy logic and sliding mode control <b>2010,</b>		13
20	DC pre-excitation application in three-phase induction motor drive system <b>2010,</b>		2
19	Grid-connected photovoltaic power systems: Technical and potential problemsA review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2010</b> , 14, 112-129	16.2	565
18	Analysis of cutting-edge techniques in the high voltage and high power adjustable speed drive systems. <i>Science in China Series D: Earth Sciences</i> , <b>2009</b> , 52, 442-449		4
17	Speed sensorless direct torque control of 3-level inverter-fed induction motor drive based on optimized switching table <b>2009,</b>		6
16	A comparative study of Luenberger observer, sliding mode observer and extended Kalman filter for sensorless vector control of induction motor drives <b>2009,</b>		22
15	A Sliding Mode Observer for PMSM speed and rotor position considering saliency. <i>Power Electronics Specialist Conference (PESC), IEEE</i> , <b>2008,</b>		5
14	Instantaneous energy balancing in three-level neutral point clamped converters <b>2008,</b>		2
13	Modeling of busbars in high power neutral point clamped three-level inverters. <i>Tsinghua Science and Technology</i> , <b>2008</b> , 13, 91-97	3.4	6
12	Performance Evaluation of Switch Devices Equipped in High-Power Three-Level Inverters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 2993-3000	8.9	6
11	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 3012-3021	8.9	8
10	High performance position control system based on SR-PM motor. <i>Tsinghua Science and Technology</i> , <b>2007</b> , 12, 614-619	3.4	0

9	Transient of power pulse and its sequence in power electronics. <i>Science in China Series D: Earth Sciences</i> , <b>2007</b> , 50, 351-360		12
8	Dynamic Equivalent Circuit Design in Three-level High Voltage Inverters Based On Functional Model of IGCT. <i>IEEE Applied Power Electronics Conference and Exposition</i> , <b>2007</b> ,		2
7	Vector control for a twelve-phase synchronous motor <b>2007</b> ,		3
6	Snubberless switching-off characteristics of IGCTs equipped in high power three-level neutral point clamped converters <b>2005</b> ,		1
5	A novel fiber-CAN-based real time communication system for MV-ASD systems <b>2005</b> ,		1
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