

# Alex Q Huang

## List of Publications by Year in descending order

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581  
papers

20,855  
citations

28736

57  
h-index

19470

122  
g-index

585  
all docs

585  
docs citations

585  
times ranked

12250  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Bidirectional Isolated Dual-Phase-Shift Variable-Frequency Series Resonant Dual-Active-Bridge GaN AC-DC Converter. IEEE Transactions on Industrial Electronics, 2023, 70, 3315-3325.	5.2	18
2	Shared Redundancy Strategy to Improve the Reliability and Fault-Tolerant Capability of Modular Multilevel Converter. IEEE Transactions on Industrial Electronics, 2023, 70, 3326-3336.	5.2	7
3	Hardware Design of a 13.8-kV/3-MVA PV Plus Storage Solid-State Transformer (PVS-SST). IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 3571-3586.	3.7	29
4	Variable-Switching-Frequency Single-Stage Bidirectional GaN AC-DC Converter for the Grid-Tied Battery Energy Storage System. IEEE Transactions on Industrial Electronics, 2022, 69, 10776-10786.	5.2	20
5	Gate Bias Dependence of $V_{TH}$ Degradation in Planar and Trench SiC MOSFETs Under Repetitive Short Circuit Tests. IEEE Transactions on Electron Devices, 2022, 69, 2521-2527.	1.6	9
6	Design methodologies and fabrication of 4H-SiC lateral Schottky barrier diode on thin RESURF layer. Applied Physics Letters, 2022, 120, 122103.	1.5	4
7	Characterization of Partial Discharges in High-Frequency Transformer Under PWM Pulses. IEEE Transactions on Power Electronics, 2022, 37, 11199-11208.	5.4	17
8	Hardware Design of a 150kW/1500V All-SiC Grid-forming Photovoltaic Synchronous Generator (PVSG). , 2022, , .		14
9	Triple Phase-Shift Optimization of SiC-based Dual-Active Bridge DC/AC Converter. , 2022, , .		4
10	Packaging and Characterization of a Novel 7.2kV/85A SiC Austin SuperMOS Half-Bridge Intelligent Power Module (IPM). , 2022, , .		2
11	Design and Characterization of 4.5kV/ $15\text{m}\Omega$ SiC SuperMOS Half-bridge Module. , 2022, , .		2
12	Dynamic Modeling and Model Predictive Control of Hybrid Solid-State Transformers. , 2022, , .		2
13	PI-Based Synchronous Reference Frame Frequency-Locked Loop. IEEE Transactions on Industrial Electronics, 2021, 68, 4547-4553.	5.2	18
14	A Family of Ultrahigh Efficiency Fractional dc-dc Topologies for High Power Energy Storage Device. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1420-1427.	3.7	14
15	Configurations, Power Topologies and Applications of Hybrid Distribution Transformers. Energies, 2021, 14, 1215.	1.6	15
16	Erratum to "Modeling Avalanche Induced Degradation for 4H-SiC Power MOSFETs". IEEE Transactions on Power Electronics, 2021, 36, 2447-2447.	5.4	0
17	Comprehensive Comparison of Fabricated 1.6-kV Punch-Through Design Ni/n-SiC Schottky Barrier Diode with Ar+ Implant Edge Termination and Heterojunction p-NiO/n-SiC Diode. , 2021, , .		0
18	Real-time Implementation of a Dual-Active-Bridge Based Multi-Level Photovoltaic Converter. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
19	Efficiency Optimization of Dual Active Bridge Converter Based on $dV/dt$ Snubber Capacitors. , 2021, , .		6
20	A Novel 3.6kV/400A SiC Intelligent Power Module (IPM). , 2021, , .		5
21	Design and Implementation of A 5kW 99.2% Efficient High-Density GaN-based Totem Pole Interleaved Bridgeless Bidirectional PFC. , 2021, , .		8
22	Design and fabrication of low pinch-off voltage 700V lateral 4H-SiC MESFET with thin RESURF layer. , 2021, , .		1
23	Huang-Pair: A New High Voltage Diode Concept and Its Demonstration. IEEE Transactions on Power Electronics, 2021, 36, 8653-8657.	5.4	2
24	Design and Optimization of a 200-kW Medium-Frequency Transformer for Medium-Voltage SiC PV Inverters. IEEE Transactions on Power Electronics, 2021, 36, 10548-10560.	5.4	49
25	A 3-D Winding Structure for Planar Transformers and Its Applications to $\langle i \rangle$ LLC $\langle /i \rangle$ Resonant Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6232-6247.	3.7	25
26	99% Efficient 2.5-kW Four-Level Flying Capacitor Multilevel GaN Totem-Pole PFC. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5795-5806.	3.7	39
27	An 800V/300 kW, 44 kW/L Air-Cooled SiC Power Electronics Building Block (PEBB). , 2021, , .		6
28	Ultra-Light Load Performance Enhancement of A 1 MVA SiC Medium Voltage Three Phase Rectifier. , 2021, , .		0
29	GaN-based $\hat{A} \pm 5kV/100kHz$ PWM Generator for Advanced Partial Discharge Characterization. , 2021, , .		5
30	500kVA Hybrid Solid State Transformer (HSST): Modelling and Control. , 2021, , .		6
31	Performance Analysis of an Input-Series-Output-Parallel LLC Resonant Converter with Parameters Mismatch. , 2021, , .		8
32	Versatile Control Functions of Hybrid Solid-State Transformers in Distribution Systems. , 2021, , .		4
33	Variable Frequency Average Current Mode Control for ZVS Symmetrical Dual-Buck H-Bridge All-GaN Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4416-4427.	3.7	18
34	Evaluation and Analysis of Temperature-Dependent Dynamic $R_{DS(on)}$ of GaN Power Devices Considering High-Frequency Operation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 111-123.	3.7	18
35	Photovoltaic Synchronous Generator: Architecture and Control Strategy for a Grid-Forming PV Energy System. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 936-948.	3.7	81
36	7.2-kV/60-A Austin SuperMOS: An Intelligent Medium-Voltage SiC Power Switch. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 6-15.	3.7	40

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37	A Novel Order Reduced Synchronous Power Control for Grid-Forming Inverters. IEEE Transactions on Industrial Electronics, 2020, 67, 10989-10995.	5.2	22
38	High Isolation Auxiliary Power Supply for Medium-Voltage Power Electronics Building Block. , 2020, , .		13
39	Turn-on Gate Resistor Optimization For Paralleled SiC MOSFETs. , 2020, , .		8
40	A Novel Three Dimensional (3D) Winding Structure for Planar Transformers. , 2020, , .		4
41	Understanding Short-Circuit Failure Mechanism of Double-Trench SiC Power MOSFETs. IEEE Transactions on Electron Devices, 2020, 67, 5593-5599.	1.6	23
42	Fabrication and Analysis of a Novel High Voltage Heterojunction p-NiO/n-Ga <sub>2</sub> O <sub>3</sub> Diode. , 2020, , .		5
43	Intradevice Repeatability and Interdevice Agreement of Ocular Biometric Measurements: A Comparison of Two Swept-Source Anterior Segment OCT Devices. Translational Vision Science and Technology, 2020, 9, 14.	1.1	30
44	Evaluation of Medium Voltage SiC Flying Capacitor Converter and Modular Multilevel Converter. , 2020, , .		8
45	500kVA Hybrid Solid State Transformer (HSST): Design and Implementation of the SST. , 2020, , .		8
46	Turn-on Performance Comparison of SiC SingleDriver Module (SDM) and Multi-Driver Module (MDM). , 2020, , .		2
47	Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. IEEE Transactions on Smart Grid, 2020, 11, 5273-5287.	6.2	28
48	Hybrid Low-Frequency Switch for Bridgeless PFC. IEEE Transactions on Power Electronics, 2020, 35, 9982-9986.	5.4	2
49	A 480V to 45V GaN Bidirectional AC-DC Converter for Grid-Tied Battery Energy Storage System (BESS). , 2020, , .		3
50	Hardware Design and Demonstration of a 100kW, 99% Efficiency Dual Active Half Bridge Converter Based on 1700V SiC Power MOSFET. , 2020, , .		20
51	Thermal Design Consideration of Medium Voltage High Frequency Transformers. , 2020, , .		5
52	A Single-Stage Isolated Resonant SiC DC/AC Inverter for Efficient High-Power Applications. , 2020, , .		12
53	Generalized Average Modeling of a Single-Stage Resonant-Based Inverter. , 2020, , .		2
54	Temperatureâ€dependent dynamic <i>R</i> <sub>DS,ON</sub> under different operating conditions in enhancementâ€mode GaN HEMTs. IET Power Electronics, 2020, 13, 456-462.	1.5	7

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55	Three-Terminal Si/SiC Hybrid Switch. IEEE Transactions on Power Electronics, 2020, 35, 8867-8871.	5.4	18
56	Modeling Avalanche Induced Degradation for 4H-SiC Power MOSFETs. IEEE Transactions on Power Electronics, 2020, 35, 11299-11303.	5.4	8
57	Guest Editorial: WBG Semiconductor Power Electronics for Industrial and Automotive Applications. IET Power Electronics, 2020, 13, 391-393.	1.5	0
58	A Novel 600V Lateral RESURF 4H-SiC MESFET with Sloped Field Plate for High Power and High Frequency Applications. , 2020, , .		1
59	Design of a 200 kW Medium-Frequency Transformer (MFT) With High Insulation Capability. , 2020, , .		14
60	Design of 1500V/200kW 99.6% Efficiency Dual Active Bridge Converters Based on 1700V SiC Power MOSFET Module. , 2020, , .		16
61	Dual-Loop High Speed Voltage Balancing Control for High Frequency Four-level GaN Totem-Pole PFC With Small Flying Capacitors. , 2020, , .		8
62	Loss Model and Output Impedance Analysis of a 48V-to-1V High Current Point-of-Load Converter. , 2020, , .		1
63	500kVA Hybrid Solid State Transformer (HSST): Architecture, Functionality and Control. , 2020, , .		15
64	Dynamic State Estimation Based Monitoring of High Frequency Transformer. , 2020, , .		0
65	Degradation Assessment of SiC MOSFETs under the Repetitive Short Circuit Ageing with Different Gate-Source Voltage Bias. , 2020, , .		3
66	Complex-Variable Design of Voltage Control for Grid-Forming Inverter. , 2020, , .		0
67	Novel Power Control of Voltage-Controlled Inverters for Grid Inertia Support. , 2019, , .		3
68	Design of Printed Circuit Boards for Power Electronics Utilizing Gallium Nitride Ball Grid Array Integrated Half Bridges. , 2019, , .		0
69	Impact of Termination Region on Switching Loss for SiC MOSFET. IEEE Transactions on Electron Devices, 2019, 66, 1026-1031.	1.6	8
70	Switching Loss Model of SiC MOSFET Promoting High Frequency Applications. , 2019, , .		5
71	Achieving Zero Switching Loss in Silicon Carbide MOSFET. IEEE Transactions on Power Electronics, 2019, 34, 12193-12199.	5.4	41
72	Design and Simulation of 600V 4H-SiC Superjunction JBS Diode. , 2019, , .		2

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73	7.2-kV/60-A Austin SuperMOS: An Enabling SiC Switch Technology for Medium Voltage Applications. , 2019, , .		10
74	Design of A Medium Voltage Solid-State Transformer based on Modular AC-AC Resonant Converter and an Input-Series-Output-Parallel Architecture. , 2019, , .		10
75	3kW Four-Level Flying Capacitor Totem-Pole Bridgeless PFC Rectifier with 200V GaN Devices. , 2019, , .		18
76	Digital Interleaving Control for Two-Phase TCM GaN Totem-Pole PFC to Reduce Current Distortion. , 2019, , .		3
77	Solid state transformers, the Energy Router and the Energy Internet. , 2019, , 21-44.		6
78	Coordinative real-time sub-transmission voltage control for reactive power regulation between transmission and distribution systems. IET Generation, Transmission and Distribution, 2019, 13, 2006-2014.	1.4	21
79	Predictive ZVS Control With Improved ZVS Time Margin and Limited Variable Frequency Range for a 99% Efficient, 130-W/in <sup>3</sup> MHz GaN Totem-Pole PFC Rectifier. IEEE Transactions on Power Electronics, 2019, 34, 7079-7091.	5.4	63
80	High-Efficiency and High-Density Single-Phase Dual-Mode Cascaded Buck-Boost Multilevel Transformerless PV Inverter With GaN AC Switches. IEEE Transactions on Power Electronics, 2019, 34, 7474-7488.	5.4	62
81	7.2-kV Single-Stage Solid-State Transformer Based on the Current-Fed Series Resonant Converter and 15-kV SiC MOSFETs. IEEE Transactions on Power Electronics, 2019, 34, 1099-1112.	5.4	113
82	SiC Trench MOSFET With Integrated Self-Assembled Three-Level Protection Schottky Barrier Diode. IEEE Transactions on Electron Devices, 2018, 65, 347-351.	1.6	51
83	A Novel Dominant Dynamic Elimination Control for Voltage-Controlled Inverter. IEEE Transactions on Industrial Electronics, 2018, 65, 6800-6812.	5.2	35
84	Complex-Coefficient Complex-Variable Filter for Grid Synchronization Based on Linear Quadratic Regulation. IEEE Transactions on Industrial Informatics, 2018, 14, 1824-1834.	7.2	32
85	A 10 kV DC transformer (DCX) based on current fed SRC and 15 kV SiC MOSFETs. , 2018, , .		11
86	Gate driver design and continuous operation of an improved 1200V/200A FREEDM-pair half-bridge power module. , 2018, , .		4
87	A novel adaptive control for three-phase inverter. , 2018, , .		5
88	Single-phase dual-mode four-switch Buck-Boost Transformerless PV inverter with inherent leakage current elimination. , 2018, , .		6
89	High current medium voltage solid state circuit breaker using paralleled 15kV SiC ETO. , 2018, , .		25
90	The 2018 GaN power electronics roadmap. Journal Physics D: Applied Physics, 2018, 51, 163001.	1.3	843

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91	Feedforward Proportional Carrier-Based PWM for Cascaded H-Bridge PV Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 2192-2205.	3.7	26
92	Soft-Switched Modulation Techniques for an Isolated Bidirectional DC-AC. IEEE Transactions on Power Electronics, 2018, 33, 137-150.	5.4	44
93	Electrical Characteristics of 10-kV 4H-SiC MPS Rectifiers with High Schottky Barrier Height. Journal of Electronic Materials, 2018, 47, 927-931.	1.0	4
94	Load Current Decoupling Based LQ Control for Three-Phase Inverter. IEEE Transactions on Power Electronics, 2018, 33, 5476-5491.	5.4	25
95	A Design Investigation of A 1 MVA SiC MOSFET Medium Voltage Variable Frequency Drive With Various Filtering Options. , 2018, , .		7
96	A GUI Based Automatic Tester with A Novel Heating Method for Power Semiconductor Device Dynamic Measurement. , 2018, , .		3
97	Analysis on Ultra-Fast Switching of SiC MOSFETs for Megahertz Applications Enabled by 3D Package and Embedded Components. , 2018, , .		0
98	Improved Modulation Strategy for Semi-Full-Bridge Submodule in Modular Multilevel Converter. , 2018, , .		0
99	Optimal Control Scheme for Single-Stage Dual-Active-Bridge AC-DC Converter. , 2018, , .		13
100	IGBT Dynamic Loss Reduction through Device Level Soft Switching. Energies, 2018, 11, 1182.	1.6	4
101	Medium Voltage Single-stage Single Active Bridge based Solid State Transformer. , 2018, , .		3
102	Analysis of Trade-Off Between Noise and Wide Band-Gap (WBG) Device Switching Speed. , 2018, , .		5
103	Single-phase hybrid transformerless PV grid-tied inverter. IET Power Electronics, 2018, 11, 2440-2449.	1.5	10
104	Three-phase Medium Voltage DC Fast Charger based on Single-stage Soft-switching Topology. , 2018, , .		11
105	Performance optimization of A 1.2kV SiC high density half bridge power module in 3D package. , 2018, , .		12
106	Real-time adaptive timing control of synchronous rectifiers in high frequency GaN LLC converter. , 2018, , .		17
107	A design investigation of A 1 MVA SiC medium voltage three phase rectifier based on isolated dual active bridge. , 2018, , .		2
108	Improved analysis, design and control for interleaved dual-phase ZVS GaN-based totem-pole PFC rectifier with coupled inductor. , 2018, , .		16

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109	A single-stage bidirectional dual-active-bridge AC-DC converter based on enhancement mode GaN power transistor. , 2018, , .		23
110	High Voltage Vertical Gallium Nitride Pseudo-Junction-Barrier-Schottky Diode with Ion Implantation. , 2018, , .		0
111	A Study of Physical Limitation of Reactive Power Output Capability of Modern PV Inverters. , 2018, , .		6
112	Control of solid-state transformer-enabled DC microgrids. , 2018, , 119-151.		0
113	An Isolated Bidirectional Single-Stage DC-AC Converter Using Wide-Band-Gap Devices With a Novel Carrier-Based Unipolar Modulation Technique Under Synchronous Rectification. IEEE Transactions on Power Electronics, 2017, 32, 1832-1843.	5.4	55
114	Review of Silicon Carbide Power Devices and Their Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 8193-8205.	5.2	916
115	Integration of DC Microgrids as Virtual Synchronous Machines Into the AC Grid. IEEE Transactions on Industrial Electronics, 2017, 64, 7455-7466.	5.2	138
116	Solid-State-Transformer-Interfaced Permanent Magnet Wind Turbine Distributed Generation System With Power Management Functions. IEEE Transactions on Industry Applications, 2017, 53, 3849-3861.	3.3	56
117	A SiC Power MOSFET Loss Model Suitable for High-Frequency Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 8268-8276.	5.2	94
118	Adaptive zero-voltage-switching control and hybrid current control for high efficiency GaN-based MHz Totem-pole PFC rectifier. , 2017, , .		26
119	A 98.3% Efficient GaN Isolated Bidirectional DC-DC Converter for DC Microgrid Energy Storage System Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 9094-9103.	5.2	147
120	A Medium-Voltage Medium-Frequency Isolated DC-DC Converter Based on 15-kV SiC MOSFETs. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 100-109.	3.7	87
121	Full ZVS soft-start of a SiC medium voltage series resonant DC-DC converter using variable frequency variable duty cycle control. , 2017, , .		3
122	Multi-objective optimization of medium voltage SiC DC-DC converter based on modular input-series-output-parallel (ISOP) architecture. , 2017, , .		12
123	15-kV/40-A FREEDM Supercascode: A Cost-Effective SiC High-Voltage and High-Frequency Power Switch. IEEE Transactions on Industry Applications, 2017, 53, 5715-5727.	3.3	52
124	Power Semiconductor Devices for Smart Grid and Renewable Energy Systems. Proceedings of the IEEE, 2017, 105, 2019-2047.	16.4	195
125	A Medium-Voltage Hybrid DC Circuit Breaker-Part II: Ultrafast Mechanical Switch. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 289-296.	3.7	80
126	Theoretical and Experimental Study of 22 kV SiC Emitter Turn-OFF (ETO) Thyristor. IEEE Transactions on Power Electronics, 2017, 32, 6381-6393.	5.4	37



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127	A Medium-Voltage Hybrid DC Circuit Breaker, Part I: Solid-State Main Breaker Based on 15 kV SiC Emitter Turn-OFF Thyristor. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 278-288.	3.7	106
128	Review of GaN Totem-Pole Bridgeless PFC. CPSS Transactions on Power Electronics and Applications, 2017, 2, 187-196.	2.9	128
129	An improved SiC MOSFET-gate driver integrated power module with ultra low stray inductances. , 2017, , .		18
130	Bit-energy: An innovative bitcoin-style distributed transactional model for a competitive electricity market. , 2017, , .		5
131	Wide Bandgap Devices and Power Conversion Systemsâ€™Part I. IEEE Transactions on Industrial Electronics, 2017, 64, 8190-8192.	5.2	14
132	Data center power distribution system reliability analysis tool based on Monte Carlo next event simulation method. , 2017, , .		5
133	Design and optimization of the high frequency transformer for a 800V/1.2MHz SiC LLC resonant converter. , 2017, , .		16
134	Active Damping of Ultrafast Mechanical Switches for Hybrid AC and DC Circuit Breakers. IEEE Transactions on Industry Applications, 2017, 53, 5354-5364.	3.3	28
135	15 kV SiC MOSFET: An Enabling Technology for Medium Voltage Solid State Transformers. CPSS Transactions on Power Electronics and Applications, 2017, 2, 118-130.	2.9	131
136	A frequency based real-time electricity rate for residential prosumers. , 2017, , .		4
137	Design and implementation of a 7.2kV single stage AC-AC solid state transformer based on current source series resonant converter and 15 kV SiC MOSFET. , 2017, , .		20
138	The direct connection of electronic components to power distribution primaries. , 2017, , .		1
139	Assessment of medium voltage SiC MOSFET advantages in medium voltage drive application. , 2017, , .		7
140	Fractional converter for high efficiency high power battery energy storage system. , 2017, , .		24
141	Design and optimization of high conversion ratio quasi square wave buck converters. , 2017, , .		10
142	Comparative study on the turn-off capability of multiple Si and SiC power devices. , 2017, , .		6
143	Wide Bandgap Devices and Power Conversion Systemsâ€™Part II. IEEE Transactions on Industrial Electronics, 2017, 64, 8959-8961.	5.2	3
144	Continuous switching operation of 15 kV FREEDM super-cascode. , 2017, , .		3

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145	Comparative Evaluation and Analysis of Gate Driver Impacts on a SiC MOSFET-Gate Driver Integrated Power Module. International Symposium on Microelectronics, 2017, 2017, 000247-000251.	0.3	0
146	Design considerations of an isolated GaN bidirectional dc-dc converter. , 2016, , .		4
147	A study of dynamic high voltage output charge measurement for 15 kV SiC MOSFET. , 2016, , .		16
148	Active damping of ultra-fast mechanical switches for hybrid AC and DC circuit breakers. , 2016, , .		4
149	15kV/40A FREEDM super-cascode: A cost effective SiC high voltage and high frequency power switch. , 2016, , .		18
150	A novel energy balanced variable frequency control for input-series-output-parallel modular EV fast charging stations. , 2016, , .		11
151	Hierarchical protection architecture for 380V DC data center application. , 2016, , .		19
152	Practical consideration and implementation of a medium voltage SiC AC-DC rectifier. , 2016, , .		0
153	1200V/200A FREEDM-pair: Loss and cost reduction analysis. , 2016, , .		11
154	High bandwidth current sensing of SiC MOSFET with a Si current mirror. , 2016, , .		13
155	Analysis and loss comparison of megahertz high voltage isolated DC/DC converters utilizing integrated SiC MOSFET module. , 2016, , .		11
156	Comparative study of temperature sensitive electrical parameters (TSEP) of Si, SiC and GaN power devices. , 2016, , .		31
157	Physics understanding of high temperature behavior of Gallium Nitride power transistor. , 2016, , .		6
158	Medium voltage solid state transformers based on 15 kV SiC MOSFET and JBS diode. , 2016, , .		26
159	A novel light load performance enhanced variable-switching-frequency and hybrid single-dual-phase-shift control for single-stage dual-active-bridge based AC/DC converter. , 2016, , .		23
160	Wide bandgap (WBG) power devices and their impacts on power delivery systems. , 2016, , .		47
161	Time-varying full-order state-space modeling of variable-switching-frequency control for single-phase single-stage dual-active-bridge based AC/DC converter. , 2016, , .		1
162	Zero standby power high efficiency hot plugging outlet for 380VDC power delivery system. , 2016, , .		5

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163	An autonomous power management strategy based on DC bus signaling for solid-state transformer interfaced PMSG wind energy conversion system. , 2016, , .		9
164	Independent DC link voltage control of cascaded multilevel PV inverter. , 2016, , .		5
165	Performance evaluation of multiple Si and SiC solid state devices for circuit breaker application in 380VDC delivery system. , 2016, , .		29
166	Improved medium voltage AC-DC rectifier based on 10kV SiC MOSFET for Solid State Transformer (SST) application. , 2016, , .		13
167	Improved 6.5kV FREEMD-Pair based on SiC JFET and Si IGBT. , 2016, , .		6
168	Medium-Voltage Solid-State Transformer: Technology for a Smarter and Resilient Grid. IEEE Industrial Electronics Magazine, 2016, 10, 29-42.	2.3	205
169	Converting HVAC to HVDC grids: A novel switched conductor HVDC scheme. , 2016, , .		2
170	10kV SiC MPS diodes for high temperature applications. , 2016, , .		14
171	Proposing a frequency based real-time energy market and economic dispatch strategy. , 2016, , .		4
172	Repetitive Unclamped-Inductive-Switching-Induced Electrical Parameters Degradations and Simulation Optimizations for 4H-SiC MOSFETs. IEEE Transactions on Electron Devices, 2016, 63, 4331-4338.	1.6	61
173	Loss analysis of a high efficiency GaN and Si device mixed isolated bidirectional DC-DC converter. , 2016, , .		8
174	Design and application of a 1200V ultra-fast integrated Silicon Carbide MOSFET module. , 2016, , .		20
175	Drive circuits for ultra-fast and reliable actuation of Thomson coil actuators used in hybrid AC and DC circuit breakers. , 2016, , .		16
176	High-frequency AC distributed power delivery system. , 2016, , .		5
177	A High-Efficiency Flyback Micro-inverter With a New Adaptive Snubber for Photovoltaic Applications. IEEE Transactions on Power Electronics, 2016, 31, 318-327.	5.4	125
178	A Fast Mechanical Switch for Medium-Voltage Hybrid DC and AC Circuit Breakers. IEEE Transactions on Industry Applications, 2016, 52, 2911-2918.	3.3	57
179	Area-Efficient Bevel-Edge Termination Techniques for SiC High-Voltage Devices. IEEE Transactions on Electron Devices, 2016, 63, 1630-1636.	1.6	41
180	The energy internet and electricity market in the United States. Chinese Science Bulletin, 2016, 61, 1210-1221.	0.4	4

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181	Solid-state transformer interfaced PMSG wind energy conversion system. , 2015, , .		24
182	A novel bi-directional DC-DC converter for distributed energy storage device. , 2015, , .		7
183	An integrated high efficiency ultra-low power single chip DC/AC inverter for driving liquid crystal electro-optic lenses. , 2015, , .		0
184	Auxiliary power supply for solid state transformer with ultra high voltage capacitive driving. , 2015, , .		11
185	GaN HEMT based 250W CCM photovoltaic micro-inverter. , 2015, , .		7
186	Data center energy efficiency and power quality: An alternative approach with solid state transformer. , 2015, , .		14
187	Excess carrier mapping technique " A new parameter extraction method for 4H-SiC ambipolar power devices. , 2015, , .		0
188	Design consideration of an MMC-HVDC system based on 4500V/4000A emitter turn-off (ETO) thyristor. , 2015, , .		2
189	4H-SiC 15kV n-IGBT physics-based sub-circuit model implemented in Simulink/Matlab. , 2015, , .		8
190	Turn-on capability of 22 kV SiC Emitter Turn-off (ETO) Thyristor. , 2015, , .		3
191	Solid State Transformer (SST) as an energy router: Economic dispatch based energy routing strategy. , 2015, , .		45
192	A fast mechanical switch for medium voltage hybrid DC and AC circuit breakers. , 2015, , .		6
193	Loss analysis of GaN devices in an isolated bidirectional DC-DC converter. , 2015, , .		12
194	Understanding switching losses in SiC MOSFET: Toward lossless switching. , 2015, , .		58
195	Integrated SiC MOSFET module with ultra low parasitic inductance for noise free ultra high speed switching. , 2015, , .		31
196	3.38 Mhz operation of 1.2kV SiC MOSFET with integrated ultra-fast gate drive. , 2015, , .		28
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