

Subhashish Bhattacharya

List of Publications by Year in descending order

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616
papers

11,674
citations

81889

39
h-index

74160

75
g-index

620
all docs

620
docs citations

620
times ranked

9526
citing authors

#	ARTICLE	IF	CITATIONS
1	Rule-Based Control of Battery Energy Storage for Dispatching Intermittent Renewable Sources. IEEE Transactions on Sustainable Energy, 2010, 1, 117-124.	8.8	573
2	Control Strategies for Battery Energy Storage for Wind Farm Dispatching. IEEE Transactions on Energy Conversion, 2009, 24, 725-732.	5.2	434
3	Solid-State Transformer and MV Grid Tie Applications Enabled by 15 kV SiC IGBTs and 10 kV SiC MOSFETs Based Multilevel Converters. IEEE Transactions on Industry Applications, 2015, 51, 3343-3360.	4.9	295
4	Optimal Control of Battery Energy Storage for Wind Farm Dispatching. IEEE Transactions on Energy Conversion, 2010, 25, 787-794.	5.2	281
5	Hybrid solutions for improving passive filter performance in high power applications. IEEE Transactions on Industry Applications, 1997, 33, 732-747.	4.9	264
6	Active filter system implementation. IEEE Industry Applications Magazine, 1998, 4, 47-63.	0.4	249
7	STATCOM Impact Study on the Integration of a Large Wind Farm into a Weak Loop Power System. IEEE Transactions on Energy Conversion, 2008, 23, 226-233.	5.2	231
8	Synchronous frame based controller implementation for a hybrid series active filter system. , 0, , .		226
9	High Switching Performance of 1700V, 50A SiC Power MOSFET over Si IGBT/BiMOSFET for Advanced Power Conversion Applications. IEEE Transactions on Power Electronics, 2015, , 1-1.	7.9	180
10	Analysis and Design of Active NPC (ANPC) Inverters for Fault-Tolerant Operation of High-Power Electrical Drives. IEEE Transactions on Power Electronics, 2012, 27, 519-533.	7.9	178
11	A New Nine-Level Active NPC (ANPC) Converter for Grid Connection of Large Wind Turbines for Distributed Generation. IEEE Transactions on Power Electronics, 2011, 26, 961-972.	7.9	164
12	Small-Signal Model-Based Control Strategy for Balancing Individual DC Capacitor Voltages in Cascade Multilevel Inverter-Based STATCOM. IEEE Transactions on Industrial Electronics, 2009, 56, 2259-2269.	7.9	128
13	Parallel-Connected Shunt Hybrid Active Power Filters Operating at Different Switching Frequencies for Improved Performance. IEEE Transactions on Industrial Electronics, 2012, 59, 4007-4019.	7.9	123
14	Analysis of the Modulation Strategy for the Minimization of the Leakage Current in the PV Grid-Connected Cascaded Multilevel Inverter. IEEE Transactions on Power Electronics, 2017, 32, 1156-1169.	7.9	123
15	Design and development of Generation-I silicon based Solid State Transformer. , 2010, , .		119
16	An Approach Towards Extreme Fast Charging Station Power Delivery for Electric Vehicles with Partial Power Processing. IEEE Transactions on Industrial Electronics, 2020, 67, 8076-8087.	7.9	117
17	Flux-based active filter controller. IEEE Transactions on Industry Applications, 1996, 32, 491-502.	4.9	109
18	A Digital Predictive Current-Mode Controller for a Single-Phase High-Frequency Transformer-Isolated Dual-Active Bridge DC-to-DC Converter. IEEE Transactions on Industrial Electronics, 2016, 63, 5943-5952.	7.9	107

#	ARTICLE	IF	CITATIONS
19	Shunt compensation. IEEE Industrial Electronics Magazine, 2009, 3, 38-49.	2.6	106
20	An average model of solid state transformer for dynamic system simulation. , 2009, , .		105
21	A Transformerless Intelligent Power Substation: A three-phase SST enabled by a 15-kV SiC IGBT. IEEE Power Electronics Magazine, 2015, 2, 31-43.	0.7	102
22	Energy router: Architectures and functionalities toward Energy Internet. , 2011, , .		99
23	Design and control of grid-connected converter in bi-directional battery charger for Plug-in hybrid electric vehicle application. , 2009, , .		88
24	Control of square-wave inverters in high-power hybrid active filter systems. IEEE Transactions on Industry Applications, 1998, 34, 458-472.	4.9	86
25	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	12.6	85
26	Characterization of 15 kV SiC n-IGBT and its application considerations for high power converters. , 2013, , .		83
27	Design Considerations and Performance Evaluation of 1200-V 100-A SiC MOSFET-Based Two-Level Voltage Source Converter. IEEE Transactions on Industry Applications, 2016, 52, 4257-4268.	4.9	81
28	Design Considerations and Development of an Innovative Gate Driver for Medium-Voltage Power Devices With High $\frac{dv}{dt}$. IEEE Transactions on Power Electronics, 2019, 34, 5256-5267.	7.9	81
29	Design and implementation of a series voltage sag compensator under practical utility conditions. IEEE Transactions on Industry Applications, 2003, 39, 844-853.	4.9	77
30	High-voltage high-frequency transformer design for a 7.2kV to 120V/240V 20kVA solid state transformer. , 2010, , .		76
31	Comparative Evaluation of 15-kV SiC MOSFET and 15-kV SiC IGBT for Medium-Voltage Converter Under the Same $\frac{dv}{dt}$ Conditions. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 469-489.	5.4	75
32	Design and hardware implementation of Gen-1 silicon based solid state transformer. , 2011, , .		73
33	Design Considerations of a 15-kV SiC IGBT-Based Medium-Voltage High-Frequency Isolated DC-DC Converter. IEEE Transactions on Industry Applications, 2015, 51, 3284-3294.	4.9	72
34	Design and implementation of a hybrid series active filter system. , 0, , .		68
35	Transforming the transformer. IEEE Spectrum, 2017, 54, 38-43.	0.7	68
36	Design Comparison of High-Power Medium-Voltage Converters Based on a 6.5-kV Si-IGBT/Si-PiN Diode, a 6.5-kV Si-IGBT/SiC-JBS Diode, and a 10-kV SiC-MOSFET/SiC-JBS Diode. IEEE Transactions on Industry Applications, 2014, 50, 2728-2740.	4.9	67

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37	Performance evaluation of series connected 1700V SiC MOSFET devices. , 2015, , .		63
38	Design considerations and development of gate driver for 15 kV SiC IGBT. , 2014, , .		62
39	Small-Signal Stability Assessment and Active Stabilization of a Bidirectional Battery Charger. IEEE Transactions on Industry Applications, 2019, 55, 563-574.	4.9	62
40	Voltage and power balance control for a cascaded multilevel solid state transformer. , 2010, , .		59
41	A Hybrid 7-Level Inverter Using Low-Voltage Devices and Operation With Single DC-Link. IEEE Transactions on Power Electronics, 2019, 34, 9844-9853.	7.9	59
42	Transformer less Intelligent Power Substation design with 15kV SiC IGBT for grid interconnection. , 2011, , .		58
43	Extreme fast charging station architecture for electric vehicles with partial power processing. , 2018, , .		55
44	A Simple Unified Model for Generic Operation of Dual Active Bridge Converter. IEEE Transactions on Industrial Electronics, 2019, 66, 3486-3495.	7.9	55
45	Design considerations and performance evaluation of 1200 V, 100 a SiC MOSFET based converter for high power density application. , 2013, , .		53
46	A Comparative Evaluation of Series Power-Flow Controllers Using DC- and AC-Link Converters. IEEE Transactions on Power Delivery, 2008, 23, 985-996.	4.3	52
47	Design comparison of high power medium-voltage converters based on 6.5kV Si-IGBT/Si-PiN diode, 6.5kV Si-IGBT/SiC-JBS diode, and 10kV SiC MOSFET/SiC-JBS diode. , 2011, , .		52
48	Vector-Controlled Voltage-Source-Converter-Based Transmission Under Grid Disturbances. IEEE Transactions on Power Electronics, 2013, 28, 661-672.	7.9	52
49	Design and evaluation of isolated gate driver power supply for medium voltage converter applications. , 2016, , .		51
50	Multi-function bi-directional battery charger for plug-in hybrid electric vehicle application. , 2009, , .		50
51	Identification and Predictive Analysis of a Multi-Area WECC Power System Model Using Synchrophasors. IEEE Transactions on Smart Grid, 2017, 8, 1977-1986.	9.0	50
52	Parallel active filter system implementation and design issues for utility interface of adjustable speed drive systems. , 0, , .		48
53	Experimental verification of dominant harmonic active filter for high-power applications. IEEE Transactions on Industry Applications, 2000, 36, 567-577.	4.9	48
54	Smart Inverter Volt-Watt Control Design in High PV-Penetrated Distribution Systems. IEEE Transactions on Industry Applications, 2019, 55, 1147-1156.	4.9	47

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55	Comparison study of 12kV n-type SiC IGBT with 10kV SiC MOSFET and 6.5kV Si IGBT based on 3L-NPC VSC applications. , 2012, , .		46
56	Local energy storage sizing in plug-in hybrid electric vehicle charging stations under blocking probability constraints. , 2011, , .		45
57	Adaptive Droop Control Method for Suppressing Circulating Currents in DC Microgrids. IEEE Open Access Journal of Power and Energy, 2020, 7, 100-110.	3.4	45
58	Exact Solution of ZVS Boundaries and AC-Port Currents in Dual Active Bridge Type DC-DC Converters. IEEE Transactions on Power Electronics, 2019, 34, 5043-5047.	7.9	44
59	An Optimized Circulating Current Control Method Based on PR and PI Controller for MMC Applications. IEEE Transactions on Industry Applications, 2021, 57, 5074-5085.	4.9	44
60	Experimental comparison of motor bearing currents with PWM hard- and soft-switched voltage-source inverters. IEEE Transactions on Power Electronics, 1999, 14, 552-562.	7.9	43
61	Hybrid solutions for improving passive filter performance in high power applications. , 0, , .		42
62	Optimal design methodology for dual active bridge converter under wide voltage variation. , 2017, , .		42
63	Operations of the dominant harmonic active filter (DHAF) under realistic utility conditions. IEEE Transactions on Industry Applications, 2001, 37, 1037-1044.	4.9	41
64	Three-Level Active Neutral-Point-Clamped (ANPC) Converter with Fault Tolerant Ability. , 2009, , .		41
65	Comparisons of 6.5kV 25A Si IGBT and 10-kV SiC MOSFET in Solid-State Transformer application. , 2010, , .		41
66	Ultra high voltage IGBTs in 4H-SiC. , 2013, , .		38
67	Medium voltage (≈ 2.3 kV) high frequency three-phase two-level converter design and demonstration using 10 kV SiC MOSFETs for high speed motor drive applications. , 2016, , .		37
68	Active filter solutions for utility interface. , 0, , .		36
69	High-frequency design considerations of dual active bridge 1200 V SiC MOSFET DC-DC converter. , 2011, , .		36
70	High voltage dual active bridge with series connected high voltage silicon carbide (SiC) devices. , 2014, , .		36
71	Harmonic Analysis and Controller Design of 15 kV SiC IGBT-Based Medium-Voltage Grid-Connected Three-Phase Three-Level NPC Converter. IEEE Transactions on Power Electronics, 2017, 32, 3355-3369.	7.9	36
72	Line harmonics reduction in high-power systems using square-wave inverters-based dominant harmonic active filter. IEEE Transactions on Power Electronics, 1999, 14, 265-272.	7.9	35

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73	STATCOM with energy storage for smoothing intermittent wind farm power. , 2008, , .		35
74	Design considerations of high voltage and high frequency transformer for solid state transformer application. , 2010, , .		35
75	Growth of Pd ₄ S, PdS and PdS ₂ films by controlled sulfurization of sputtered Pd on native oxide of Si. Thin Solid Films, 2013, 539, 41-46.	1.8	35
76	A MV intelligent gate driver for 15kV SiC IGBT and 10kV SiC MOSFET. , 2016, , .		34
77	A Novel Control Approach for Protection of Multiterminal VSC-Based HVDC Transmission System Against DC Faults. IEEE Transactions on Industry Applications, 2016, 52, 4108-4116.	4.9	34
78	Experimental verification of dominant harmonic active filter (DHAF) for high power applications. , 0, , .		33
79	High performance, ultra high voltage 4H-SiC IGBTs. , 2012, , .		33
80	High-speed medium voltage (MV) drive applications enabled by series connection of 1.7 kV SiC MOSFET devices. , 2017, , .		33
81	Scale-Up Methodology of a Modular Multilevel Converter for HVdc Applications. IEEE Transactions on Industry Applications, 2019, 55, 4974-4983.	4.9	33
82	Power Loss Analysis of Medium Voltage Three-Phase Converters using 15 kV/40 A SiC N-IGBT. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, , 1-1.	5.4	32
83	Application of dominant harmonic active filter system with 12 pulse nonlinear loads. IEEE Transactions on Power Delivery, 1999, 14, 642-647.	4.3	31
84	Design considerations of high voltage and high frequency three phase transformer for Solid State Transformer application. , 2010, , .		31
85	Understanding dv/dt of 15 kV SiC N-IGBT and its control using active gate driver. , 2014, , .		29
86	Comparison of PR controller and damped PR controller for grid current control of LCL filter based grid-tied inverter under frequency variation and grid distortion. , 2014, , .		29
87	Comparative evaluation of 15 kV SiC MOSFET and 15 kV SiC IGBT for medium voltage converter under same dv/dt conditions. , 2015, , .		29
88	A Sinusoidal Current Control Strategy Based on Harmonic Voltage Injection for Harmonic Loss Reduction of PMSMs With Non-Sinusoidal Back-EMF. IEEE Transactions on Industry Applications, 2020, 56, 7032-7043.	4.9	29
89	Operating characteristics of the convertible static compensator on the 345 kV network. , 0, , .		28
90	Control of DC-Fault-Resilient Voltage Source Converter Based HVDC Transmission System under DC Fault Operating Condition. IEEE Transactions on Industrial Electronics, 2014, , 1-1.	7.9	28

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91	Autoinspection and Permitting With a PV Utility Interface (PUI) for Residential Plug-and-Play Solar Photovoltaic Unit. IEEE Transactions on Industry Applications, 2017, 53, 1337-1346.	4.9	28
92	Large & small signal modeling of dual active bridge converter using improved first harmonic approximation. , 2017, , .		28
93	Isolation design considerations for power supply of medium voltage silicon carbide gate drivers. , 2017, , .		28
94	A Partial Power Converter Interface for Battery Energy Storage Integration with a DC Microgrid. , 2019, , .		28
95	Medium voltage power converter design and demonstration using 15 kV SiC N-IGBTs. , 2015, , .		27
96	An Optimal Combination Modulation Strategy for a Seven-level Cascade Multilevel Converter Based STATCOM. Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), 2006, , .	0.0	26
97	Design comparison of 6.5 kV Si-IGBT, 6.5kV SiC JBS diode, and 10 kV SiC MOSFETs in megawatt converters for shipboard power system. , 2011, , .		26
98	Zero voltage switching performance of 1200V SiC MOSFET, 1200V silicon IGBT and 900V CoolMOS MOSFET. , 2011, , .		26
99	Architecture of solid state transformer-based energy router and models of energy traffic. , 2012, , .		26
100	A method to measure the DC bias in high frequency isolation transformer of the dual active bridge DC to DC converter and its removal using current injection and PWM switching. , 2014, , .		26
101	Design of a Medium Voltage Mobile Utilities Support Equipment based Solid State Transformer (MUSE-SST) with 10 kV SiC MOSFETs for Grid Interconnection. , 2018, , .		26
102	An Accurate Calorimetric Loss Measurement Method for SiC MOSFETs. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1644-1656.	5.4	26
103	Paralleling of LLC Resonant Converters. IEEE Transactions on Power Electronics, 2021, 36, 6276-6287.	7.9	26
104	20 kV 4H-SiC N-IGBTs. Materials Science Forum, 0, 778-780, 1030-1033.	0.3	25
105	Grounding architectures for enabling ground fault ride-through capability in DC microgrids. , 2017, , .		25
106	Optimizing Operation Indices Considering Different Types of Distributed Generation in Microgrid Applications. Energies, 2018, 11, 894.	3.1	25
107	Active filter solutions for utility interface of industrial loads. , 0, , .		24
108	Power synchronization control for capacitor minimization in Solid State Transformers (SST). , 2011, , .		24

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109	A three-phase three winding topology for Dual Active Bridge and its D-Q mode control. , 2012, , .		24
110	Control technique for 15 kV SiC IGBT based active front end converter of a 13.8 kV grid tied 100 kVA transformerless intelligent power substation. , 2013, , .		24
111	Experimental switching frequency limits of 15 kV SiC N-IGBT module. , 2014, , .		24
112	Design, measurement and equivalent circuit synthesis of high power HF transformer for three-phase composite dual active bridge topology. , 2014, , .		24
113	A Discrete Matlabâ€™Simulink Flickermeter Model for Power Quality Studies. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 527-533.	4.7	23
114	A novel predictive phase shift controller for bidirectional isolated dc to dc converter for high power applications. , 2012, , .		23
115	Low-Voltage PV Power Integration into Medium Voltage Grid Using High-Voltage SiC Devices. IEEE Journal of Industry Applications, 2015, 4, 767-775.	1.1	23
116	ZVS analysis and power flow control for three limb transformer enabled SiC Mosfet based three port DAB integrating PV and Energy Storage(ES). , 2016, , .		23
117	Modelling, design and analysis of three limb high frequency transformer including transformer parasitics, for SiC Mosfet based three port DAB. , 2016, , .		23
118	Variable interleaving technique for photovoltaic cascaded DC-DC converters. , 2014, , .		22
119	Smart inverter volt-watt control design in high PV penetrated distribution systems. , 2017, , .		22
120	Metal Amorphous Nanocomposite (MANC) Alloy Cores with Spatially Tuned Permeability for Advanced Power Magnetics Applications. Jom, 2018, 70, 879-891.	1.9	22
121	Asynchronous Microgrid Power Conditioning System Enabled by Series Connection of Gen-3 SiC 10 kV MOSFETs. , 2018, , .		22
122	Reliability Comparison and Evaluation of MMC Based HVDC Systems. , 2018, , .		22
123	A Dual-Loop Current Control Structure With Improved Disturbance Rejection for Grid-Connected Converters. IEEE Transactions on Power Electronics, 2019, 34, 10233-10244.	7.9	22
124	Improving distribution system performance with integrated STATCOM and supercapacitor energy storage system. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	21
125	Solid-state fault isolation devices: application to future power electronics-based distribution systems. IET Electric Power Applications, 2011, 5, 521.	1.8	21
126	Practical Design Considerations for MV LCL Filter Under High dv/dt Conditions Considering the Effects of Parasitic Elements. , 2018, , .		21

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127	Closed loop D-Q control of high-voltage high-power three-phase dual active bridge converter in presence of real transformer parasitic parameters. , 2013, , .		20
128	Modeling and Emulation of a Rotating Paddle Type Wave Energy Converter. IEEE Transactions on Energy Conversion, 2018, 33, 594-604.	5.2	20
129	High Power Medium Voltage Converters Enabled by High Voltage SiC Power Devices. , 2018, , .		20
130	Monolithic 4-Terminal 1.2 kV/20 A 4H-SiC Bi-Directional Field Effect Transistor (BiDFET) with Integrated JBS Diodes. , 2020, , .		20
131	Comparative study of DC circuit breakers using realtime simulations. , 2014, , .		19
132	Start-up scheme for solid state transformers connected to medium voltage grids. , 2015, , .		19
133	Optimized Highly Efficient SSCB Using Organic Substrate Packaging for Electric Vehicle Applications. , 2020, , .		19
134	Optimal resonant tank design considerations for primary track compensation in Inductive Power Transfer systems. , 2010, , .		18
135	Ocean energy power take-off using oscillating paddle. , 2012, , .		18
136	Supplementary Energy Storage and Hybrid Front-End Converters for High-Power Mobile Mining Equipment. IEEE Transactions on Industry Applications, 2013, 49, 1863-1872.	4.9	18
137	Characterization and performance comparison of reverse blocking SiC and Si based switch. , 2013, , .		18
138	Performance comparison of 10 kV#x2013;15 kV high voltage SiC modules and high voltage switch using series connected 1.7 kV LV SiC MOSFET devices. , 2016, , .		18
139	A Novel ZVS Range Enhancement Technique of a High-Voltage Dual Active Bridge Converter Using Series Injection. IEEE Transactions on Power Electronics, 2017, 32, 4231-4245.	7.9	18
140	Single shot avalanche energy characterization of 10kV, 10A 4H-SiC MOSFETs. , 2018, , .		18
141	SoC Balancing of Different Energy Storage Systems in DC Microgrids Using Modified Droop Control. , 2018, , .		18
142	Efficiency improvement of three port high frequency transformer isolated triple active bridge converter. , 2018, , .		18
143	Gate Drivers for Medium-Voltage SiC Devices. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 1-12.	3.9	18
144	STATCOM Operation Strategy under Power System Faults. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	17

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145	Improved wind farm's power availability by battery energy storage systems: modeling and control. , 2008, , .		17
146	Validation of battery energy storage control for wind farm dispatching. , 2010, , .		17
147	Flexible electrical power system controller design and battery integration for 1U to 12U CubeSats. , 2011, , .		17
148	SVC and STATCOM application in Electric Arc Furnace efficiency improvement. , 2013, , .		17
149	Performance analysis and characterization of current switch under reverse voltage commutation, overlap voltage bump and zero current switching. , 2013, , .		17
150	Current source inverter based cascaded solid state transformer for AC to DC power conversion. , 2014, , .		17
151	High-Power VSC-Based Simultaneous Positive- and Negative-Sequence Voltage Regulator. IEEE Transactions on Power Delivery, 2014, 29, 2124-2135.	4.3	17
152	High switching performance of 1.7kV, 50A SiC power MOSFET over Si IGBT for advanced power conversion applications. , 2014, , .		17
153	Autonomous Inverter Voltage Regulation in a Low Voltage Distribution Network. IEEE Transactions on Smart Grid, 2018, 9, 6909-6917.	9.0	17
154	Mobile Utility Support Equipment based Solid State Transformer (MUSE-SST) for MV Grid Interconnection with Gen3 10 kV SiC MOSFETs. , 2018, , .		17
155	A Gen-3 10-kV SiC MOSFET-Based Medium-Voltage Three-Phase Dual Active Bridge Converter Enabling a Mobile Utility Support Equipment Solid State Transformer. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 1519-1536.	5.4	17
156	Protection of a transformerless intelligent power substation. , 2013, , .		16
157	Low voltage PV power integration into medium voltage grid using high voltage SiC devices. , 2014, , .		16
158	Dual Angle Control for Line-Frequency-Switched Static Synchronous Compensators Under System Faults. IEEE Transactions on Power Electronics, 2014, 29, 2723-2736.	7.9	16
159	Modular Transformer Converter-Based Convertible Static Transmission Controller for Transmission Grid Management. IEEE Transactions on Power Electronics, 2014, 29, 6293-6306.	7.9	16
160	Modular isolated DC-DC converter with multi-limb transformer for interfacing of renewable energy sources. , 2015, , .		16
161	Three-phase 4.16 kV medium voltage grid tied AC-DC converter based on 15 kV/40 a SiC IGBTs. , 2015, , .		16
162	Comparative performance evaluation of series connected 15 kV SiC IGBT devices and 15 kV SiC MOSFET devices for MV power conversion systems. , 2016, , .		16

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163	A Review and Modeling of Different Droop Control Based Methods for Battery State of the Charge Balancing in DC Microgrids. , 2018, , .		16
164	A CM Filter Configuration for Grid-Tied Voltage Source Converters. IEEE Transactions on Industrial Electronics, 2020, 67, 8100-8111.	7.9	16
165	Thermal Performance and Reliability Analysis of a Medium-Voltage Three-Phase Inverter Considering the Influence of High dv/dt on Parasitic Filter Elements. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 486-494.	5.4	16
166	A Novel Submodule Level Fault-Tolerant Approach for MMC With Integrated Scale-Up Architecture. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 343-352.	3.9	16
167	Optimizing three phase current regulators for low inductance loads. , 0, , .		15
168	Active Power Management of Electric Power System Using Emerging Power Electronics Technology. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	15
169	Comparison of 10-kV SiC power devices in solid-state transformer. , 2010, , .		15
170	A medium-voltage DC (MVDC) with series active injection for shipboard power system applications. , 2010, , .		15
171	A high power medium-voltage dc amplifier system. , 2011, , .		15
172	A comparative study of three-phase dual active bridge topologies and their suitability for D-Q mode control. , 2012, , .		15
173	Performance evaluation of series connected 15 kV SiC IGBT devices for MV power conversion systems. , 2016, , .		15
174	Power flow control and ZVS analysis of three limb high frequency transformer based three-port DAB. , 2016, , .		15
175	Implementation of distributed power balancing strategy with a layer of supervision in a low-voltage DC microgrid. , 2017, , .		15
176	An intelligent medium voltage gate driver with enhanced short circuit protection scheme for 10kV 4H-SiC MOSFETs. , 2017, , .		15
177	A Low-Order Harmonic Elimination Scheme for Induction Motor Drives Using a Multilevel Octadecagonal Space Vector Structure With a Single DC Source. IEEE Transactions on Power Electronics, 2018, 33, 2430-2437.	7.9	15
178	Input Impedance Analyses of Charge Controlled and Frequency Controlled LLC Resonant Converter. , 2018, , .		15
179	Gate Drivers for High-Frequency Application of Silicon-Carbide MOSFETs: Design considerations for faster growth of LV and MV applications. IEEE Power Electronics Magazine, 2019, 6, 18-31.	0.7	15
180	Analytical Study of SiC MOSFET Based Inverter Output dv/dt Mitigation and Loss Comparison With a Passive dv/dt Filter for High Frequency Motor Drive Applications. IEEE Access, 2021, 9, 15228-15238.	4.2	15

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181	STATCOM Impact Study on the Integration of a Large Wind Farm into a Weak Loop Power System. , 2006, , .		14
182	Control Strategy Improving Fault Ride-Through Capability of Cascade Multilevel Inverter Based STATCOM. , 2008, , .		14
183	Performance comparison of 1200V Silicon and SiC devices for UPS application. , 2010, , .		14
184	Design considerations of a three phase dual active bridge based on reactive power flow. , 2012, , .		14
185	A novel control approach for protection of multi-terminal VSC based HVDC transmission system against DC faults. , 2015, , .		14
186	Hybrid energy storage system comprising of battery and ultra-capacitor for smoothing of oscillating wave energy. , 2016, , .		14
187	Control Hardware-in-the-Loop Demonstration of a Building-Scale DC Microgrid Utilizing Distributed Control Algorithm. , 2018, , .		14
188	Modeling and Stability Analysis of a DC Microgrid Employing Distributed Control Algorithm. , 2018, , .		14
189	Finite-Element Analysis Modeling of High-Frequency Single-Phase Transformers Enabled by Metal Amorphous Nanocomposites and Calculation of Leakage Inductance for Different Winding Topologies. IEEE Transactions on Magnetics, 2019, 55, 1-11.	2.1	14
190	Superior Short Circuit Performance of 1.2kV SiC JBSFETs Compared to 1.2kV SiC MOSFETs. Materials Science Forum, 0, 963, 797-800.	0.3	14
191	Isolation Transformer for 3-Port 3-Phase Dual-Active Bridge Converters in Medium Voltage Level. IEEE Access, 2019, 7, 19678-19687.	4.2	14
192	MV Power Conversion Systems Enabled by High-Voltage SiC Devices [Happenings]. IEEE Power Electronics Magazine, 2019, 6, 18-21.	0.7	14
193	Working group on dynamic performance and modeling of DC systems and power electronics for transmission systems. Report on test systems for AC/DC interaction studies. IEEE Transactions on Power Delivery, 1995, 10, 2027-2034.	4.3	13
194	Inductor design for high-power applications with broad-spectrum excitation. IEEE Transactions on Power Electronics, 1998, 13, 202-208.	7.9	13
195	Modeling and Control of Three-Phase Active front-end Converters. , 2007, , .		13
196	Control strategy for cascade multilevel inverter based STATCOM with optimal combination modulation. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	13
197	Distributed power flow controller design based-on ETO-light converter. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	13
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