

Xu She

List of Publications by Year in descending order

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65
papers

4,275
citations

430442

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476904

29
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all docs

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docs citations

65
times ranked

3216
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Efficiency Silicon Carbide-Based Buck-Boost Converter in an Energy Storage System: Minimizing Complexity and Maximizing Efficiency. IEEE Industry Applications Magazine, 2021, 27, 51-62.	0.3	11
2	Impact of Termination Region on Switching Loss for SiC MOSFET. IEEE Transactions on Electron Devices, 2019, 66, 1026-1031.	1.6	8
3	Performance Evaluation of 1.5 kV Solar Inverter With 2.5 kV Silicon Carbide mosfet. IEEE Transactions on Industry Applications, 2019, 55, 7726-7735.	3.3	7
4	High-Efficiency Silicon Carbide (SiC) Converter Using Paralleled Discrete Devices in Energy Storage Systems. , 2019, , .		7
5	Thermal Performance Evaluation of a 1.7-kV, 450-A SiC-MOSFET Based Modular Three-Phase Power Block With Wide Fundamental Frequency Operations. IEEE Transactions on Industry Applications, 2019, 55, 1795-1806.	3.3	14
6	Active Gate Driver for SiC-MOSFET-Based PV Inverter With Enhanced Operating Range. IEEE Transactions on Industry Applications, 2019, 55, 1677-1689.	3.3	30
7	On the Transient Thermal Characteristics of Silicon Carbide Power Electronics Modules. IEEE Transactions on Power Electronics, 2018, 33, 9783-9789.	5.4	26
8	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
9	Evaluation of 2.5 kV Silicon Carbide MOSFET for 1.5 kV Solar Inverter Application. , 2018, , .		12
10	Active gate driver for SiC MOSFET based PV inverter with enhanced operating range. , 2018, , .		6
11	On the Switching Frequency of Hysteresis Control in a Silicon Carbide Converter Pump-Back Test. IEEE Transactions on Industry Applications, 2018, 54, 4886-4893.	3.3	4
12	Review of Silicon Carbide Power Devices and Their Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 8193-8205.	5.2	916
13	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
14	High Performance Silicon Carbide Power Block for Industry Applications. IEEE Transactions on Industry Applications, 2017, 53, 3738-3747.	3.3	35
15	A SiC Power MOSFET Loss Model Suitable for High-Frequency Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 8268-8276.	5.2	94
16	Comparison of 1.7kV, 450A SiC-MOSFET and Si-IGBT based modular three phase power block. , 2017, , .		6
17	Wide Bandgap Devices and Power Conversion Systemsâ€”Part I. IEEE Transactions on Industrial Electronics, 2017, 64, 8190-8192.	5.2	14
18	Switching frequency characterization of hysteresis control in a pump back test configuration. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
19	Wide Bandgap Devices and Power Conversion Systemsâ€”Part II. IEEE Transactions on Industrial Electronics, 2017, 64, 8959-8961.	5.2	3
20	High performance SiC power block for industry applications. , 2016, , .		4
21	Universal AC Input High-Density Power Adapter Design With a Clamped Series-Resonant Converter. IEEE Transactions on Industry Applications, 2016, 52, 4096-4107.	3.3	17
22	Universal AC input high density power adapter design with a Clamped Series Resonant Converter. , 2015, , .		3
23	Decentralized architecture and control of photovoltaic generation system based on cascaded AC module integrated converter. , 2014, , .		2
24	A high performance controller for a single phase cascaded multilevel photovoltaic system. , 2014, , .		0
25	Current Sensorless Power Balance Strategy for DC/DC Converters in a Cascaded Multilevel Converter Based Solid State Transformer. IEEE Transactions on Power Electronics, 2014, 29, 17-22.	5.4	95
26	Distributed power balance strategy for DC/DC converters in solid state transformer. , 2014, , .		7
27	Design and demonstration of a 3.6kV–120V/10KVA solid state transformer for smart grid application. , 2014, , .		16
28	Design and Demonstration of a 3.6-kV–120-V/10-kVA Solid-State Transformer for Smart Grid Application. IEEE Transactions on Power Electronics, 2014, 29, 3982-3996.	5.4	263
29	System Integration and Hierarchical Power Management Strategy for a Solid-State Transformer Interfaced Microgrid System. IEEE Transactions on Power Electronics, 2014, 29, 4414-4425.	5.4	127
30	Power Management for DC Microgrid Enabled by Solid-State Transformer. IEEE Transactions on Smart Grid, 2014, 5, 954-965.	6.2	188
31	A cloud and evidential reasoning integrated model for insulation condition assessment of high voltage transformers. International Transactions on Electrical Energy Systems, 2014, 24, 913-926.	1.2	11
32	Autonomous Control, Operation, and Protection of the FREEDM System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 969-974.	0.4	1
33	Hierarchical power management for DC microgrid in islanding mode and Solid State transformer enabled mode. , 2013, , .		11
34	Power management strategy for DC microgrid interfaced to distribution system based on solid state transformer. , 2013, , .		4
35	Multiobjective Control of PEM Fuel Cell System With Improved Durability. IEEE Transactions on Sustainable Energy, 2013, 4, 127-135.	5.9	26
36	Solid state transformer in the future smart electrical system. , 2013, , .		45

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37	Review of Solid-State Transformer Technologies and Their Application in Power Distribution Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 186-198.	3.7	869
38	Wind Energy System With Integrated Functions of Active Power Transfer, Reactive Power Compensation, and Voltage Conversion. IEEE Transactions on Industrial Electronics, 2013, 60, 4512-4524.	5.2	133
39	A cost effective power sharing strategy for a cascaded multilevel converter based solid state transformer. , 2013, , .		8
40	Review of solid state transformer in the distribution system: From components to field application. , 2012, , .		177
41	Coupling Effect Reduction of a Voltage-Balancing Controller in Single-Phase Cascaded Multilevel Converters. IEEE Transactions on Power Electronics, 2012, 27, 3530-3543.	5.4	93
42	A novel 3-D space vector modulation scheme for three-level three-leg NPC converter in three-phase four-wire APF system. , 2012, , .		8
43	On Integration of Solid-State Transformer With Zonal DC Microgrid. IEEE Transactions on Smart Grid, 2012, 3, 975-985.	6.2	267
44	Feed-forward control of solid state transformer. , 2012, , .		8
45	Parallel operation of solid state transformer. , 2012, , .		5
46	AC circulating currents suppression in modular multilevel converter. , 2012, , .		88
47	Solid state transformer interfaced wind energy system with integrated active power transfer, reactive power compensation and voltage conversion functions. , 2012, , .		28
48	3-D Space Modulation With Voltage Balancing Capability for a Cascaded Seven-Level Converter in a Solid-State Transformer. IEEE Transactions on Power Electronics, 2011, 26, 3778-3789.	5.4	130
49	Universal Tracking Control of Wind Conversion System for Purpose of Maximum Power Acquisition Under Hierarchical Control Structure. IEEE Transactions on Energy Conversion, 2011, 26, 766-775.	3.7	63
50	Power synchronization control for capacitor minimization in Solid State Transformers (SST). , 2011, , .		24
51	Comparisons of different control strategies for 20kVA solid state transformer. , 2011, , .		22
52	Design and hardware implementation of Gen-1 silicon based solid state transformer. , 2011, , .		73
53	Performance evaluation of solid state transformer based microgrid in FREEDM systems. , 2011, , .		60
54	A new voltage-balancing controller in cascaded multilevel converters. , 2011, , .		5

#	ARTICLE	IF	CITATIONS
55	Initial result on management problem of battery storage system in PEM fuel cell based hybrid power sources. , 2010, , .		4
56	Dynamic optimal battery array management in high energy density fuel cell/battery hybrid power source. , 2010, , .		5
57	DC zonal micro-grid architecture and control. , 2010, , .		25
58	Plug-and-play control module for variable speed wind turbine under unknown aerodynamics. , 2010, , .		4
59	Novel 3-DSVM scheme for three-phase four-wire tri-level APFs. , 2009, , .		1
60	Research on Power Electronic Load: Topology, Modeling, and Control. , 2009, , .		18
61	Unified power electronic load for burn-in test. , 2009, , .		3
62	Research on the single-phase PWM rectifier based on the repetitive control. , 2008, , .		3
63	Research on the power electronic load based on repetitive controller. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	14
64	Shielded Gate SiC Trench Power MOSFET with Ultra-Low Switching Loss. Materials Science Forum, 0, 924, 765-769.	0.3	2
65	SiC Charge-Balanced Devices Offering Breakthrough Performance Surpassing the 1-D Ron versus BV Limit. Materials Science Forum, 0, 963, 655-659.	0.3	12