

Peng Fu

List of Publications by Year in descending order

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231
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#	ARTICLE	IF	CITATIONS
1	A Novel Low-Frequency Virtual Space Vector Modulation With the Improved Continuity of Output Average-Voltage and Bus Voltage Utilization for Single-Phase Neutral Point Clamped Three-Level Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022, 10, 2290-2304.	5.4	3
2	An IGCT Unified Simulation Model Based on the Electrical Model and Thermistor. <i>IEEE Transactions on Plasma Science</i> , 2022, 50, 3412-3421.	1.3	0
3	An Electric-Thermal-Solid Physical Fields Coupling Calculation Based on FELAC Platform. , 2022, , .		0
4	A Module-Based Self-Balancing Series Connection for IGBTs. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 9410-9419.	7.9	6
5	Power Quality Analysis for Poloidal Field Power Supply System in EAST. <i>Fusion Science and Technology</i> , 2021, 77, 316-326.	1.1	1
6	Numerical Analysis of a Pyro-breaker Utilized in Superconducting Fusion Facility. , 2021, , .		1
7	Research on Short Circuit Operation Control Strategy of a Superconducting Magnet Power Supply for CRAFT. <i>Journal of Fusion Energy</i> , 2021, 40, 1.	1.2	0
8	An Optimal Control Algorithm with Reduced DC-Bus Current Fluctuation for Multiple Charging Modes of Electric Vehicle Charging Station. <i>World Electric Vehicle Journal</i> , 2021, 12, 107.	3.0	3
9	A 15-kA Solid-State Circuit Breaker Research and Development for the Switch Network Unit of the EAST Tokamak. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 2979-2986.	1.3	1
10	An IGCT Electrical-thermal Unified Model Suitable for Simulation Software. , 2021, , .		0
11	Final Design and Analysis of Control Strategies on ITER PF Converter. <i>Fusion Science and Technology</i> , 2020, 76, 21-28.	1.1	3
12	Feasibility Analysis of 100 kA DC Commutation Scheme to be Applied in the Quench Protection Unit of CFETR. <i>IEEE Transactions on Applied Superconductivity</i> , 2020, 30, 1-9.	1.7	14
13	Optimal Design Method to Improve the Magnetic Field Distribution of Multiple Square Coil Systems. <i>IEEE Access</i> , 2020, 8, 171184-171194.	4.2	11
14	Design and Error Analysis of a Large-Caliber Steady-State Magnetic-Field Testing System. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-9.	2.1	12
15	Preliminary Design of Pulse Inductor Applied for 100-kA Quench Protection System. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 1754-1761.	1.3	11
16	Analysis and Design of Fast Discharge Resistor System Based on Forced-Air Cooling Method. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 542-553.	1.3	6
17	Fuzzy Controller Using Circulating Mode for ITER Poloidal Field AC/DC Converter System. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 2890-2895.	1.3	2
18	Protection Strategy Summary of EAST PF High Power Supply. , 2019, , .		1

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19	Structure Optimization of Fast Discharge Resistor System for Quench Protection System. IEEE Access, 2019, 7, 52122-52131.	4.2	14
20	Microsecond Overshoot Characteristics of PSM High-Voltage Power Supply. IEEE Transactions on Plasma Science, 2019, 47, 1793-1798.	1.3	5
21	Control and Protection Strategy Design of ITER Toroidal Field Coil Power Supply System. Journal of Fusion Energy, 2019, 38, 236-243.	1.2	5
22	Characteristic of Thyristor in ITER Caused by Neutron Irradiation. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.	1.7	2
23	Takagi Sugeno Fuzzy Controller for ITER Poloidal Field ac/dc Converter Using Active Power Filter. Fusion Science and Technology, 2019, 75, 299-307.	1.1	0
24	Resistor analysis and simulation of HVR in the snubber circuit of Large-scale Superconductor Test Facility. , 2019, , .		0
25	Alarm System for EAST Poloidal Field Power Supply. Fusion Science and Technology, 2019, 75, 81-87.	1.1	2
26	Transient Stability Analysis of a Flexible Generator Used in Fusion Power Plant. IEEE Transactions on Plasma Science, 2018, 46, 1166-1172.	1.3	1
27	Study of the Effect of Commutation Circuit Parameters on Reliability of Quench Protection Unit in ITER. , 2018, , .		2
28	Research on the Test Method of Dynamic Current Sharing Test for ITER PF Converter. , 2018, , .		0
29	High Power Test Facility 500 kA Pulse Current Sharing Control. , 2018, , .		2
30	Design of Master Control System for ITER PF Converter System Based on CODAC Core System. , 2018, , .		1
31	Overview of CASHIPS High-Power Electrical Equipment Test Facility. , 2018, , .		0
32	Strategy Design and Transient Analysis of ITER PPEN Transformer On-Load Tap Changer During Converter Operation. Journal of Fusion Energy, 2018, 37, 346-353.	1.2	3
33	Development and Analysis of the Double-layer Water-cooled Heat Sink for the Switch Network Unit of the EAST. , 2018, , .		1
34	Performance and Failure Analysis of High Power Thyristor Caused by Fast Neutron Irradiation. , 2018, , .		0
35	Conceptual Design of Bidirectional Hybrid DC Circuit Breaker for Quench Protection of the CFETR. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	12
36	Design a Suitable Test Scheme for Triggering Bypass Protection Test of ITER PF Converter Unit. IEEE Transactions on Plasma Science, 2018, 46, 1318-1322.	1.3	3

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37	Design of a Feedback Control System for Keda Torus Experiment Equilibrium Field Power Supply. Fusion Science and Technology, 2017, 72, 137-147.	1.1	5
38	Prototype Design and Test of ITER PF Converter Unit. IEEE Transactions on Plasma Science, 2016, 44, 1677-1683.	1.3	16
39	Thermal Analysis of Power Thyristor Used in ITER Poloidal Field Converter. Journal of Fusion Energy, 2016, 35, 214-220.	1.2	1
40	Thermal Hydraulic Analysis of ITER Component Cooling Water System Loop 2B. Journal of Fusion Energy, 2016, 35, 335-340.	1.2	4
41	The Design on the Real-Time Wavelet Filter for ITER PF AC/DC Converter Control System. IEEE Transactions on Plasma Science, 2016, 44, 1178-1186.	1.3	8
42	Prediction of Temperature Rise in Water-Cooling DC Busbar Through Coupled Force and Natural Convection Thermal-Fluid Analysis. IEEE Transactions on Plasma Science, 2016, 44, 3346-3352.	1.3	10
43	Availability and Determinacy Evaluation of ITER-PPEN Communication Network. Journal of Fusion Energy, 2016, 35, 626-633.	1.2	1
44	The Harmonic Analysis of RMP Coil Power Supply in EAST TOKAMAK. Journal of Fusion Energy, 2016, 35, 550-555.	1.2	2
45	Wide bandgap switching devices for fusion reactor power supply systems. , 2015, , .		0
46	Wavelet Filter for Signals De-noising in ITER PF Converter I&C System. Journal of Fusion Energy, 2015, 34, 1478-1482.	1.2	0
47	Thermal Design of High-Power Water-Cooled Enclosed AC Busbar for ITER Poloidal Field Converter. Journal of Fusion Energy, 2015, 34, 1168-1174.	1.2	0
48	Momentary Current Test of Enclosed AC Busbar for ITER PF Converter Performed on ITER AC Test Platform. Journal of Fusion Energy, 2015, 34, 552-558.	1.2	0
49	Study on the Normal Operation and Electrical Parameter Optimization for ITER Poloidal Field Converter. Journal of Fusion Energy, 2015, 34, 365-370.	1.2	6
50	Time Synchronization Network for Data Acquisition System of the Poloidal Field Converter on EAST. Journal of Fusion Energy, 2015, 34, 469-473.	1.2	4
51	Current Sharing Analysis of External Bypass for ITER Poloidal Field Converter. Journal of Fusion Energy, 2015, 34, 225-231.	1.2	4
52	Optimization for Tokamak Reactive Power Compensation and Filtering System. Journal of Fusion Energy, 2015, 34, 54-61.	1.2	5
53	Design and Analysis of the Thyristor Clamp Structure in ITER Poloidal Field Converter Unit. Journal of Fusion Energy, 2015, 34, 326-330.	1.2	0
54	Testing of SVC Compensation and Filtering Performance with Tokamak PF Converter. Journal of Fusion Energy, 2015, 34, 84-92.	1.2	10

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55	High Speed Fuse Selection Analysis for ITER Poloidal Field Converter Module. Journal of Fusion Energy, 2015, 34, 305-314.	1.2	3
56	A New Structure Based on Dynamic Stability Analysis of External Bypass for ITER Poloidal Field Converter. Journal of Fusion Energy, 2015, 34, 116-121.	1.2	6
57	ITER Poloidal Field Converter Fault Analysis. Journal of Fusion Energy, 2015, 34, 177-182.	1.2	6
58	Thyristor Selection Analysis for ITER Poloidal Field Converter Module. Journal of Fusion Energy, 2015, 34, 620-628.	1.2	7
59	Development of Data Acquisition Management System for ITER DC Testing Platform. Journal of Fusion Energy, 2015, 34, 1100-1104.	1.2	2
60	Electromagnetic Shielding Effectiveness Analysis of Isolated Phase Bus Applied for ITER Poloidal Field Converter. IEEE Transactions on Plasma Science, 2015, 43, 2676-2681.	1.3	1
61	A ride-through power structure for CFETR. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2081-2086.	2.9	3
62	Dynamic Stability Parameters Design for ITER Poloidal Field Converter. Journal of Fusion Energy, 2015, 34, 519-527.	1.2	6
63	Design of Connecting Cable for RMP Power Supply in EAST TOKAMAK. Journal of Fusion Energy, 2015, 34, 480-484.	1.2	0
64	RC Snubber Circuit Design for ITER PF Converter Module. Journal of Fusion Energy, 2015, 34, 427-434.	1.2	1
65	Transient Magnetic Field Analysis of PF Converter Unit. Journal of Fusion Energy, 2015, 34, 267-272.	1.2	1
66	A Timed-Token Based Network for the ITER Poloidal Field Converter Control System. Journal of Fusion Energy, 2014, 33, 726-730.	1.2	1
67	On the Current Sharing Control of ITER Poloidal Field Converter. Journal of Fusion Energy, 2014, 33, 294-298.	1.2	6
68	On the Circulating Current Control of ITER Poloidal Field Converter. Journal of Fusion Energy, 2014, 33, 269-274.	1.2	13
69	The Accomplishments and Next-Step Plan of EAST in Support of Fusion. IEEE Transactions on Plasma Science, 2014, 42, 415-420.	1.3	18
70	Fault Current Tests for ITER External Bypass on DC Test Platform in ASIPP. Journal of Fusion Energy, 2014, 33, 406-411.	1.2	8
71	RAMI Analysis Program Design and Research for CFETR (Chinese Fusion Engineering Testing Reactor) Tokamak Machine. Journal of Fusion Energy, 2014, 33, 516-522.	1.2	4
72	Analysis of Internal and External Bypass Circuit Design for ITER Poloidal Field Converter System. Journal of Fusion Energy, 2014, 33, 577-581.	1.2	2

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73	Transient Fault Current Test for ITER DC Reactor on DC Test Platform in ASIPP. Journal of Fusion Energy, 2014, 33, 607-611.	1.2	11
74	Progress in CFETR Power Stations Concept Study. Journal of Fusion Energy, 2014, 33, 613-618.	1.2	6
75	Basic design consideration of CFETR fusion power stations. , 2014, , .		0
76	Compact power supplies for tokamak heating. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 233-238.	2.9	10
77	Preliminary study of H-bridges cascaded inverter with carrier phase-shift PWM for EAST fast control power supply. , 2011, , .		2
78	Compact power supplier for snubber. , 2010, , .		0
79	Application of Phase-Shift PWM in EAST Fast Control Power Supply. IEEE Transactions on Applied Superconductivity, 2010, 20, 1671-1675.	1.7	23
80	A new control scheme of Tokamak AC/DC converter. , 2010, , .		1
81	The design of the filter of firing synchronization for Tokamak rectifier. , 2010, , .		1
82	Development of Plasma Multivariable Control Model in HT-7 Superconducting Tokamak. Fusion Science and Technology, 2003, 43, 38-44.	1.1	1
83	Archiving System for EAST PF Power Supply. Fusion Science and Technology, 0, , 1-6.	1.1	0