

Peng Fu

List of Publications by Year in descending order

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231
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Phase-Shift PWM in EAST Fast Control Power Supply. IEEE Transactions on Applied Superconductivity, 2010, 20, 1671-1675.	1.7	23
2	The Accomplishments and Next-Step Plan of EAST in Support of Fusion. IEEE Transactions on Plasma Science, 2014, 42, 415-420.	1.3	18
3	Prototype Design and Test of ITER PF Converter Unit. IEEE Transactions on Plasma Science, 2016, 44, 1677-1683.	1.3	16
4	Structure Optimization of Fast Discharge Resistor System for Quench Protection System. IEEE Access, 2019, 7, 52122-52131.	4.2	14
5	Feasibility Analysis of 100 kA DC Commutation Scheme to be Applied in the Quench Protection Unit of CFETR. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-9.	1.7	14
6	On the Circulating Current Control of ITER Poloidal Field Converter. Journal of Fusion Energy, 2014, 33, 269-274.	1.2	13
7	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
8	Design and Error Analysis of a Large-Caliber Steady-State Magnetic-Field Testing System. IEEE Transactions on Magnetics, 2020, 56, 1-9.	2.1	12
9	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
10	Optimal Design Method to Improve the Magnetic Field Distribution of Multiple Square Coil Systems. IEEE Access, 2020, 8, 171184-171194.	4.2	11
11	Preliminary Design of Pulse Inductor Applied for 100-kA Quench Protection System. IEEE Transactions on Plasma Science, 2020, 48, 1754-1761.	1.3	11
12	Compact power supplies for tokamak heating. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 233-238.	2.9	10
13	Testing of SVC Compensation and Filtering Performance with Tokamak PF Converter. Journal of Fusion Energy, 2015, 34, 84-92.	1.2	10
14	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
15	Fault Current Tests for ITER External Bypass on DC Test Platform in ASIPP. Journal of Fusion Energy, 2014, 33, 406-411.	1.2	8
16	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
17	Thyristor Selection Analysis for ITER Poloidal Field Converter Module. Journal of Fusion Energy, 2015, 34, 620-628.	1.2	7
18	On the Current Sharing Control of ITER Poloidal Field Converter. Journal of Fusion Energy, 2014, 33, 294-298.	1.2	6

#	ARTICLE	IF	CITATIONS
19	Progress in CFETR Power Stations Concept Study. Journal of Fusion Energy, 2014, 33, 613-618.	1.2	6
20	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
21	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
22	ITER Poloidal Field Converter Fault Analysis. Journal of Fusion Energy, 2015, 34, 177-182.	1.2	6
23	Dynamic Stability Parameters Design for ITER Poloidal Field Converter. Journal of Fusion Energy, 2015, 34, 519-527.	1.2	6
24	Analysis and Design of Fast Discharge Resistor System Based on Forced-Air Cooling Method. IEEE Transactions on Plasma Science, 2020, 48, 542-553.	1.3	6
25	A Module-Based Self-Balancing Series Connection for IGBTs. IEEE Transactions on Industrial Electronics, 2021, 68, 9410-9419.	7.9	6
26	Optimization for Tokamak Reactive Power Compensation and Filtering System. Journal of Fusion Energy, 2015, 34, 54-61.	1.2	5
27	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
28	Microsecond Overshoot Characteristics of PSM High-Voltage Power Supply. IEEE Transactions on Plasma Science, 2019, 47, 1793-1798.	1.3	5
29	Control and Protection Strategy Design of ITER Toroidal Field Coil Power Supply System. Journal of Fusion Energy, 2019, 38, 236-243.	1.2	5
30	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
31	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
32	Current Sharing Analysis of External Bypass for ITER Poloidal Field Converter. Journal of Fusion Energy, 2015, 34, 225-231.	1.2	4
33	Thermal-Hydraulic Analysis of ITER Component Cooling Water System Loop 2B. Journal of Fusion Energy, 2016, 35, 335-340.	1.2	4
34	High Speed Fuse Selection Analysis for ITER Poloidal Field Converter Module. Journal of Fusion Energy, 2015, 34, 305-314.	1.2	3
35	A ride-through power structure for CFETR. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 2081-2086.	2.9	3
36	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

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37	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
38	Final Design and Analysis of Control Strategies on ITER PF Converter. Fusion Science and Technology, 2020, 76, 21-28.	1.1	3
39	An Optimal Control Algorithm with Reduced DC-Bus Current Fluctuation for Multiple Charging Modes of Electric Vehicle Charging Station. World Electric Vehicle Journal, 2021, 12, 107.	3.0	3
40	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. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2290-2304.	5.4	3
41	Preliminary study of H-bridges cascaded inverter with carrier phase-shift PWM for EAST fast control power supply. , 2011, , .		2
42	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
43	Development of Data Acquisition Management System for ITER DC Testing Platform. Journal of Fusion Energy, 2015, 34, 1100-1104.	1.2	2
44	The Harmonic Analysis of RMP Coil Power Supply in EAST TOKAMAK. Journal of Fusion Energy, 2016, 35, 550-555.	1.2	2
45	Study of the Effect of Commutation Circuit Parameters on Reliability of Quench Protection Unit in ITER. , 2018, , .		2
46	High Power Test Facility 500 kA Pulse Current Sharing Control. , 2018, , .		2
47	Fuzzy Controller Using Circulating Mode for ITER Poloidal Field AC/DC Converter System. IEEE Transactions on Plasma Science, 2019, 47, 2890-2895.	1.3	2
48	Characteristic of Thyristor in ITER Caused by Neutron Irradiation. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-7.	1.7	2
49	Alarm System for EAST Poloidal Field Power Supply. Fusion Science and Technology, 2019, 75, 81-87.	1.1	2
50	Development of Plasma Multivariable Control Model in HT-7 Superconducting Tokamak. Fusion Science and Technology, 2003, 43, 38-44.	1.1	1
51	A new control scheme of Tokamak AC/DC converter. , 2010, , .		1
52	The design of the filter of firing synchronization for Tokamak rectifier. , 2010, , .		1
53	A Timed-Token Based Network for the ITER Poloidal Field Converter Control System. Journal of Fusion Energy, 2014, 33, 726-730.	1.2	1
54	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

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55	RC Snubber Circuit Design for ITER PF Converter Module. Journal of Fusion Energy, 2015, 34, 427-434.	1.2	1
56	Transient Magnetic Field Analysis of PF Converter Unit. Journal of Fusion Energy, 2015, 34, 267-272.	1.2	1
57	Thermal Analysis of Power Thyristor Used in ITER Poloidal Field Converter. Journal of Fusion Energy, 2016, 35, 214-220.	1.2	1
58	Availability and Determinacy Evaluation of ITER-PPEN Communication Network. Journal of Fusion Energy, 2016, 35, 626-633.	1.2	1
59	Transient Stability Analysis of a Flexible Generator Used in Fusion Power Plant. IEEE Transactions on Plasma Science, 2018, 46, 1166-1172.	1.3	1
60	Design of Master Control System for ITER PF Converter System Based on CODAC Core System. , 2018, , .		1
61	Development and Analysis of the Double-layer Water-cooled Heat Sink for the Switch Network Unit of the EAST. , 2018, , .		1
62	Protection Strategy Summary of EAST PF High Power Supply. , 2019, , .		1
63	Power Quality Analysis for Poloidal Field Power Supply System in EAST. Fusion Science and Technology, 2021, 77, 316-326.	1.1	1
64	Numerical Analysis of a Pyro-breaker Utilized in Superconducting Fusion Facility. , 2021, , .		1
65	A 15-kA Solid-State Circuit Breaker Research and Development for the Switch Network Unit of the EAST Tokamak. IEEE Transactions on Plasma Science, 2021, 49, 2979-2986.	1.3	1
66	Compact power supplier for snubber. , 2010, , .		0
67	Basic design consideration of CFETR fusion power stations. , 2014, , .		0
68	Wide bandgap switching devices for fusion reactor power supply systems. , 2015, , .		0
69	Wavelet Filter for Signals De-noising in ITER PF Converter I&C System. Journal of Fusion Energy, 2015, 34, 1478-1482.	1.2	0
70	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
71	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
72	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

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73	Design of Connecting Cable for RMP Power Supply in EAST TOKAMAK. Journal of Fusion Energy, 2015, 34, 480-484.	1.2	0
74	Research on the Test Method of Dynamic Current Sharing Test for ITER PF Converter. , 2018, , .		0
75	Overview of CASHIPS High-Power Electrical Equipment Test Facility. , 2018, , .		0
76	Performance and Failure Analysis of High Power Thyristor Caused by Fast Neutron Irradiation. , 2018, , .		0
77	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
78	Resistor analysis and simulation of HVR in the snubber circuit of Large-scale Superconductor Test Facility. , 2019, , .		0
79	Research on Short Circuit Operation Control Strategy of a Superconducting Magnet Power Supply for CRAFT. Journal of Fusion Energy, 2021, 40, 1.	1.2	0
80	Archiving System for EAST PF Power Supply. Fusion Science and Technology, 0, , 1-6.	1.1	0
81	An IGCT Electrical-thermal Unified Model Suitable for Simulation Software. , 2021, , .		0
82	An IGCT Unified Simulation Model Based on the Electrical Model and Thermistor. IEEE Transactions on Plasma Science, 2022, 50, 3412-3421.	1.3	0
83	An Electric-Thermal-Solid Physical Fields Coupling Calculation Based on FELAC Platform. , 2022, , .		0