

Shaotao Dai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Enhancing Low-Voltage Ride-Through Capability and Smoothing Output Power of DFIG With a Superconducting Fault-Current Limiter—Magnetic Energy Storage System. IEEE Transactions on Energy Conversion, 2012, 27, 277-295.	5.2	148
2	LVRT Capability Enhancement of DFIG With Switch-Type Fault Current Limiter. IEEE Transactions on Industrial Electronics, 2015, 62, 332-342.	7.9	85
3	Evaluation of the Performance of BTFCLs for Enhancing LVRT Capability of DFIG. IEEE Transactions on Power Electronics, 2015, 30, 3623-3637.	7.9	42
4	Fabrication and Tests of a 1 MJ HTS Magnet for SMES. IEEE Transactions on Applied Superconductivity, 2008, 18, 770-773.	1.7	39
5	Development and test of a 220 kV/1.5 kA resistive type superconducting fault current limiter. Physica C: Superconductivity and Its Applications, 2019, 565, 1253501.	1.2	37
6	Fault current limiter—battery energy storage system for the doubly-fed induction generator: analysis and experimental verification. IET Generation, Transmission and Distribution, 2016, 10, 653-660.	2.5	36
7	HTS Power Technology for Future DC Power Grid. IEEE Transactions on Applied Superconductivity, 2013, 23, 5401506-5401506.	1.7	31
8	Application and Design of Resistive SFCL in ± 160 kV MMC-HVdc System. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	30
9	The Parameter Design and System Simulation of 160-kV/1-kA Resistive-Type Superconducting DC Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.7	29
10	Development of a 10 kA HTS DC Power Cable. IEEE Transactions on Applied Superconductivity, 2012, 22, 5800404-5800404.	1.7	23
11	Development of a 1250-kVA Superconducting Transformer and Its Demonstration at the Superconducting Substation. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-7.	1.7	22
12	Design of a 1 MJ/0.5 MVA HTS Magnet for SMES. IEEE Transactions on Applied Superconductivity, 2007, 17, 1977-1980.	1.7	21
13	Study on Preparation, Thermal Conductivity, and Electrical Insulation Properties of Epoxy/AlN. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.7	21
14	Overview and Development Progress of a 1-MVA/1-MJ Superconducting Fault Current Limiter-Magnetic Energy Storage System. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	20
15	A Miniature Triaxial Fiber Optic Force Sensor for Flexible Ureteroscopy. IEEE Transactions on Biomedical Engineering, 2021, 68, 2339-2347.	4.2	19
16	Development of the World's First HTS Power Substation. IEEE Transactions on Applied Superconductivity, 2012, 22, 5000104-5000104.	1.7	18
17	Design, Manufacture, and Test of a 30 m 10 kV/2.5 kA Concentric HTS Cable Prototype for Urban Grid. IEEE Access, 2021, 9, 120066-120077.	4.2	18
18	Electromagnetic Design of High-Temperature Superconducting DC Bias Winding for Single-Phase 500 kV Saturated Iron-Core Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	17

#	ARTICLE	IF	CITATIONS
19	The Electromagnetic Analysis and Structural Design of a 1 MJ HTS Magnet for SMES. IEEE Transactions on Applied Superconductivity, 2011, 21, 1344-1347.	1.7	16
20	Control Strategy of a 0.5 MVA/1 MJ SMES Based Dynamic Voltage Restorer. IEEE Transactions on Applied Superconductivity, 2010, 20, 1329-1333.	1.7	15
21	Design and performance tests of a 160 kV/1.0 kA DC superconducting fault current limiter. Physica C: Superconductivity and Its Applications, 2021, 585, 1353871.	1.2	15
22	A Novel Approach for Design of DC HTS Cable. IEEE Transactions on Applied Superconductivity, 2011, 21, 1042-1045.	1.7	14
23	Control and design of a current source united power quality conditioner with fault current limiting ability. IET Power Electronics, 2013, 6, 297-308.	2.1	14
24	Multicell Fault Current Limiter. IEEE Transactions on Industrial Electronics, 2014, 61, 2071-2080.	7.9	14
25	Development and Demonstration of a 1 MJ High-Tc SMES. IEEE Transactions on Applied Superconductivity, 2012, 22, 5700304-5700304.	1.7	13
26	Stability Analysis of the Cable Core of a 10 kA HTS DC Power Cable Used in the Electrolytic Aluminum Industry. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	13
27	Design and Tests of a 160-kV/1-kA DC Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-7.	1.7	13
28	Construction, Testing and Operation of a 1 MJ HTS Magnet at a 10.5 kV Superconducting Power Substation. IEEE Transactions on Applied Superconductivity, 2012, 22, 5700504-5700504.	1.7	12
29	Development of a Combined YBCO/Bi2223 Coils for a Model Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2013, 23, 5601705-5601705.	1.7	10
30	Testing and Demonstration of a 10-kA HTS DC Power Cable. IEEE Transactions on Applied Superconductivity, 2014, 24, 99-102.	1.7	10
31	Insulation Characteristics of Dielectric Material for CD HTS Cable. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	9
32	High-Frequency Impulse Modeling and Longitudinal Insulation Analysis of Bifilar Superconducting Coil. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-8.	1.7	9
33	Winding Design and Electromagnetic Analysis for a 1250-kVA HTS Transformer. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-7.	1.7	8
34	Electromagnetic and Thermal Analysis of Cylindrical Aluminum Billet Heated by 1MW HTS DC Induction Heater. IEEE Access, 2020, 8, 144112-144121.	4.2	8
35	Development and test in grid of 630 kVA three-phase high temperature superconducting transformer. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2009, 4, 104-113.	0.6	7
36	Influence of Insulation on Quench and Recovery of YBCO Tape Under DC Impact. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	7

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55	Influence of Electrical Conductivity on Heating Power of Metal Billets in HTS DC Induction Heater. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	2
56	Experimental study of thermal stability of HTS cable under DC overcurrent. Physica C: Superconductivity and Its Applications, 2022, 594, 1354008.	1.2	2
57	Research on Impedance Balance Design and Optimization of Triaxial HTS Cable. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1413-1419.	1.8	2
58	Analysis on AC Loss of DC HTS SFCL Coils Due to AC Ripple Current in MMC-Based DC System. , 2018, , .		1
59	Design of a Miniature Fiber Optic Sensor to Measure Axial Force at the Tip of a Robotic Flexible Ureteroscope. , 2019, , .		1
60	Modeling on Impulse Voltage Distribution and Experimental Study of Reverse Series-Connected Solenoids. , 2019, , .		1
61	Influence of Interface Resistance on Current Distribution and Inhomogeneity Effect on Quench Characteristics in REBCO Coated Conductor. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-7.	1.7	1
62	Current distribution in high-Tc composite tapes. IEEE Transactions on Applied Superconductivity, 2002, 12, 1167-1170.	1.7	0
63	Measurement system for 10kV solid-state fault current controller. , 2012, , .		0
64	Synthesis, characterization and thermostability of barium $\hat{2}$ -diketonate with tetraethylenepentamine ligand. Rare Metals, 2012, 31, 566-572.	7.1	0
65	AC Loss Simulation of High Temperature Superconducting Current Leads with Non-sinusoidal Current Waveform. , 2018, , .		0
66	Preparation and Electrical Insulation Characteristic of Thermal Conductive Epoxy Composites for Cryogenic Environment. , 2018, , .		0
67	The Frequency Dependence of AC Susceptibility at Variable Length of Bi-2223/Ag Tapes. , 2018, , .		0
68	AC Loss Calculation of Tri-Axial HTS Cables. , 2019, , .		0
69	Optimization Design of C-type Iron Core for HTS DC Induction Heater. , 2019, , .		0
70	Design and Characteristics Analysis of a New High-Temperature Superconducting Composite Conductor. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	0
71	Study on Improvement of Axial Temperature Uniformity of Large Aluminum Billets Heated by 1-MW HTS DC Induction Heater. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1563-1579.	1.8	0
72	Online Change-Point Detection of Force Signal at the Tip of Surgical Instrument with Morphological Wavelet. , 2021, , .		0