

# Shaotao Dai

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

954  
citations

471509

17  
h-index

501196

28  
g-index

72  
all docs

72  
docs citations

72  
times ranked

835  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of 160 kV/1 kA R-SFCL Design and Application in Nanao MMC-MTDC Project. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-11.	1.7	5
2	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
3	Effect of Bending Strain on the Current-Carrying Performance of Copper-Laminated REBCO Tape. Journal of Superconductivity and Novel Magnetism, 2022, 35, 647-655.	1.8	6
4	Experimental study of thermal stability of HTS cable under DC overcurrent. Physica C: Superconductivity and Its Applications, 2022, 594, 1354008.	1.2	2
5	Insulation Design of the 160 kV DC Superconducting Fault Current Limiting Winding. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 295-301.	2.9	4
6	Research on Impedance Balance Design and Optimization of Triaxial HTS Cable. Journal of Superconductivity and Novel Magnetism, 2022, 35, 1413-1419.	1.8	2
7	High-Frequency Impulse Modeling and Longitudinal Insulation Analysis of Bifilar Superconducting Coil. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-8.	1.7	9
8	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
9	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
10	Development and Test of One Commercial Megawatt Superconducting DC Induction Heater With Extra High Energy Efficiency. IEEE Access, 2021, 9, 3301-3314.	4.2	5
11	Thermal Stability Analysis of YBCO Tapes Under DC Overcurrent. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	2
12	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
13	Performances of novel poly(diaryloxyphosphazene) based heat shielding materials with various fibrous reinforcements. Journal of Applied Polymer Science, 2021, 138, 51222.	2.6	5
14	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
15	Heating Characteristics of TC4 Titanium Alloy in an HTS DC Induction Heater. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	2
16	A Miniature Triaxial Fiber Optic Force Sensor for Flexible Ureteroscopy. IEEE Transactions on Biomedical Engineering, 2021, 68, 2339-2347.	4.2	19
17	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
18	Time-Varying Resistance Optimization for the Resistive Type Superconducting Fault Current Limiter Applied in VSC-HVDC System. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1047-1057.	1.8	7

#	ARTICLE	IF	CITATIONS
19	Online Change-Point Detection of Force Signal at the Tip of Surgical Instrument with Morphological Wavelet. , 2021, , .		0
20	Electromagnetic and Thermal Analysis of Cylindrical Aluminum Billet Heated by 1MW HTS DC Induction Heater. IEEE Access, 2020, 8, 144112-144121.	4.2	8
21	Longitudinal Insulation Design of Solenoid Type Superconducting Fault Current Limiter. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-7.	1.7	6
22	Heating Characteristic and Thermal Optimization of Superconducting DC Induction Heater With Adjustable Air Gap Structure. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-7.	1.7	2
23	Application and Design of Resistive SFCL in $\pm 160$ kV MMC-HVdc System. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	30
24	Development and test of a 220kV/1.5kA resistive type superconducting fault current limiter. Physica C: Superconductivity and Its Applications, 2019, 565, 1253501.	1.2	37
25	Experimental Study on 1 kA-Class Peltier Current Lead for Superconducting DC Devices. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	4
26	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
27	Insulation Characteristics of PPLP in GHe and Design of 10 kV Bipolar Coaxial HTS DC Cable. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
28	AC Loss Calculation of Tri-Axial HTS Cables. , 2019, , .		0
29	Optimization Design of C-type Iron Core for HTS DC Induction Heater. , 2019, , .		0
30	Design of a Miniature Fiber Optic Sensor to Measure Axial Force at the Tip of a Robotic Flexible Ureteroscope. , 2019, , .		1
31	Modeling on Impulse Voltage Distribution and Experimental Study of Reverse Series-Connected Solenoids. , 2019, , .		1
32	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
33	Experimental Study on Heat-leakage of 100 A-Class PCL With Varying Cross Section. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	3
34	Study on Preparation, Thermal Conductivity, and Electrical Insulation Properties of Epoxy/AlN. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.7	21
35	Insulation Characteristics of Dielectric Material for CD HTS Cable. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	9
36	AC Loss Analysis of High-Temperature Superconducting Current Leads With Nonsinusoidal Current Waveform. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	3

#	ARTICLE	IF	CITATIONS
37	Design and Characteristics Analysis of a New High-Temperature Superconducting Composite Conductor. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	0
38	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
39	Analysis on AC Loss of DC HTS SFCL Coils Due to AC Ripple Current in MMC-Based DC System. , 2018, , .		1
40	AC Loss Simulation of High Temperature Superconducting Current Leads with Non-sinusoidal Current Waveform. , 2018, , .		0
41	Preparation and Electrical Insulation Characteristic of Thermal Conductive Epoxy Composites for Cryogenic Environment. , 2018, , .		0
42	The Frequency Dependence of AC Susceptibility at Variable Length of Bi-2223/Ag Tapes. , 2018, , .		0
43	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
44	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
45	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
46	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
47	Evaluation of the Performance of BTFCLs for Enhancing LVRT Capability of DFIG. IEEE Transactions on Power Electronics, 2015, 30, 3623-3637.	7.9	42
48	LVRT Capability Enhancement of DFIG With Switch-Type Fault Current Limiter. IEEE Transactions on Industrial Electronics, 2015, 62, 332-342.	7.9	85
49	Winding Design and Electromagnetic Analysis for a 1250-kVA HTS Transformer. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-7.	1.7	8
50	Multicell Fault Current Limiter. IEEE Transactions on Industrial Electronics, 2014, 61, 2071-2080.	7.9	14
51	Testing and Demonstration of a 10-kA HTS DC Power Cable. IEEE Transactions on Applied Superconductivity, 2014, 24, 99-102.	1.7	10
52	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
53	HTS Power Technology for Future DC Power Grid. IEEE Transactions on Applied Superconductivity, 2013, 23, 5401506-5401506.	1.7	31
54	A Real-Time Measuring and Control System for the World's First HTS Power Substation. IEEE Transactions on Applied Superconductivity, 2013, 23, 5000404-5000404.	1.7	6

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Measurement system for 10kV solid-state fault current controller. , 2012, , .		0
58	Development and Demonstration of a 1 MJ High-Tc SMES. IEEE Transactions on Applied Superconductivity, 2012, 22, 5700304-5700304.	1.7	13
59	Control and Test of a 0.5 MVA/1 MJ SMES. IEEE Transactions on Applied Superconductivity, 2012, 22, 5700804-5700804.	1.7	5
60	Enhancing Low-Voltage Ride-Through Capability and Smoothing Output Power of DFIG With a Superconducting Fault-Current Limiter and Magnetic Energy Storage System. IEEE Transactions on Energy Conversion, 2012, 27, 277-295.	5.2	148
61	Development of a 10 kA HTS DC Power Cable. IEEE Transactions on Applied Superconductivity, 2012, 22, 5800404-5800404.	1.7	23
62	Synthesis, characterization, and thermostability of bis(2,2,6,6-tetramethyl-3,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,462 Td (5-heptaned	7.1	5
63	Synthesis, characterization and thermostability of barium $\hat{I}^2$ -diketonate with tetraethylenepentamine ligand. Rare Metals, 2012, 31, 566-572.	7.1	0
64	Development of the World's First HTS Power Substation. IEEE Transactions on Applied Superconductivity, 2012, 22, 5000104-5000104.	1.7	18
65	A Novel Approach for Design of DC HTS Cable. IEEE Transactions on Applied Superconductivity, 2011, 21, 1042-1045.	1.7	14
66	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
67	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
68	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
69	Fabrication and Tests of a 1 MJ HTS Magnet for SMES. IEEE Transactions on Applied Superconductivity, 2008, 18, 770-773.	1.7	39
70	Optimal Design of an Innovative High Temperature Superconducting Generator With the Evaporative Cooling Stator and the Magnetic Flux Oriented Rotor. IEEE Transactions on Applied Superconductivity, 2007, 17, 1545-1548.	1.7	5
71	Design of a 1 MJ/0.5 MVA HTS Magnet for SMES. IEEE Transactions on Applied Superconductivity, 2007, 17, 1977-1980.	1.7	21
72	Current distribution in high-Tc composite tapes. IEEE Transactions on Applied Superconductivity, 2002, 12, 1167-1170.	1.7	0