Wenjuan Song

List of Publications by Year
in descending order

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29	449	687363 13	713466 21
papers	citations	h-index	g-index

29	29	29	245
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The T-A formulation: an efficient approach to model the macroscopic electromagnetic behaviour of HTS coated conductor applications. Superconductor Science and Technology, 2022, 35, 043003.	3.5	53
2	AC loss simulation in a HTS 3-Phase 1â€¯MVA transformer using H formulation. Cryogenics, 2018, 94, 14-21.	1.7	37
3	A Novel Helical Superconducting Fault Current Limiter for Electric Propulsion Aircraft. IEEE Transactions on Transportation Electrification, 2021, 7, 276-286.	7.8	37
4	Design of a single-phase 6.5 MVA/25ÂkV superconducting traction transformer for the Chinese Fuxing high-speed train. International Journal of Electrical Power and Energy Systems, 2020, 119, 105956.	5.5	33
5	Prediction of Nonsinusoidal AC Loss of Superconducting Tapes Using Artificial Intelligence-Based Models. IEEE Access, 2020, 8, 207287-207297.	4.2	30
6	Numerical AC Loss Analysis in HTS Stack Carrying Nonsinusoidal Transport Current. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	22
7	AC Loss Characterization of HTS Pancake and Solenoid Coils Carrying Nonsinusoidal Currents. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-9.	1.7	21
8	AC Loss Effect of High-Order Harmonic Currents in a Single-Phase 6.5 MVA HTS Traction Transformer. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	20
9	AC Transport Loss in Superconductors Carrying Harmonic Current With Different Phase Angles for Large-Scale Power Components. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	20
10	15% reduction in AC loss of a 3-phase 1 MVA HTS transformer by exploiting asymmetric conductor critical current. Journal of Physics Communications, 2021, 5, 025003.	1.2	19
11	Experimental and Simulation Study of Resistive Helical HTS Fault Current Limiters: Quench and Recovery Characteristics. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-6.	1.7	19
12	Experimental Tests of DC SFCL Under Low Impedance and High Impedance Fault Conditions. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	16
13	Exploiting asymmetric wire critical current for the reduction of AC loss in HTS coil windings. Journal of Physics Communications, 2019, 3, 095017.	1.2	15
14	Experimental and numerical transport AC losses in a four-strand Roebel cable bifilar stack. Superconductor Science and Technology, 2018, 31, 115001.	3.5	13
15	Magnetization Loss in HTS Coated Conductor Exposed to Harmonic External Magnetic Fields for Superconducting Rotating Machine Applications. IEEE Access, 2021, 9, 77930-77937.	4.2	13
16	AC Losses in Noninductive SFCL Solenoidal Coils Wound by Parallel Conductors. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-9.	1.7	12
17	AC Loss Calculation on a 6.5 MVA/25 kV HTS Traction Transformer With Hybrid Winding Structure. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	11
18	Role of Flux Diverters in Reducing AC Loss in a Single-Phase 6.5 MVA HTS Traction Transformer for Chinese High-Speed Train Carrying High-Order Harmonic Currents. IEEE Access, 2022, 10, 69650-69658.	4.2	11

#	Article	IF	Citations
19	Magnetization Loss in REBCO Roebel Cables With Varying Strand Numbers. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	8
20	Transport AC Loss Measurements in Bifilar Stacks Composed of YBCO-Coated Conductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	8
21	Superconducting Conductor on Round Core (CORC) Cables: 2D or 3D Modeling?. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	7
22	Effect of Arc Chute on DC Current Interruption by Liquid Nitrogen in HTS Electrical System of Distributed Propulsion Aircraft. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	7
23	Application of Flux Diverters in High Temperature Superconducting Transformer Windings for AC Loss Reduction. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	5
24	Analysis of Electromagnetic Characteristics of 6.5 MVA/25 kV HTS Traction Transformer Using Tâ€“A Formulation. IEEE Transactions on Applied Superconductivity, 2023, 33, 1-8.	1.7	5
25	A novel approach to quench detection for high temperature superconducting coils. Physica C: Superconductivity and Its Applications, 2015, 518, 111-116.	1.2	4
26	Voltage-current curves of high-temperature superconductor tapes measured at controlled current ramp rate compared with collective flux creep model. Physica C: Superconductivity and Its Applications, 2018, 553, 21-25.	1.2	2
27	AC Loss Characteristic Analyses of Bifilar Stack Composed of Coated Conductors. , 2018, , .		1
28	Over-Critical Current Analysis for Helical SFCL Coil. , 2020, , .		0
29	Magnetic Field and AC Loss Analysis of 2G HTS Transformer Windings Applied with Flux Diverters. , 2020, , .		0